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# ANNUAL REPORT 2018-19



**NETFISH - MPEDA**



# ANNUAL REPORT 2018-19



**Network for Fish Quality Management and Sustainable Fishing (NETFISH)**

(MPEDA, Ministry of Commerce & Industry, Govt. of India)

Vallarpadam P.O., Kochi-682 504

[www.netfishmpeda.org](http://www.netfishmpeda.org)

## **NETFISH Annual Report 2018-19**

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## Marine Fisheries sector of India

**F**isheries provides nutrition and food security to a large population of the country besides providing income and employment to millions. India is estimated to have a fisheries potential of about 5 million tonnes residing in 2 million Sq Kms of Exclusive Economic Zone (EEZ) spread off the 8118 Km. long coastline. The West coast of India has 5 maritime states viz. Gujarat, Maharashtra, Goa, Karnataka, and Kerala and two Union Territories - Daman & Diu and Lakshadweep. Our country's East coast has 4 maritime states namely Tamil Nadu, Andhra Pradesh, Odisha and West Bengal and two UTs-Puducherry and the Andaman and Nicobar Islands. About 2.4 lakhs fishing crafts are being operated in our seas and more than 1500 landing sites are functioning across the country. The latest figures show that marine capture fisheries contribute yearly about 3.5 million metric tonnes to our fish production. More than 50 different types of fish and shellfish products are being exported to 75 countries around the world. During the year 2018-19, India has exported more than 14 lakhs MT of seafood worth more than 47000 crores rupees. Marine capture fisheries is facing decline due to climate change, added with illegal and unscientific fishing practices. The catch of almost all commercially important marine fin fishes and shell fishes is on the decline trend resulting in severe resource depletion and unemployment in the sector. Responsible fishing besides strong policy decisions is needed for the sustainability of our marine capture fisheries.

## ABOUT NETFISH

Network for Fish Quality Management and Sustainable Fishing (NETFISH) is a society formed in 2006 under the aegis of the Marine Products Export Development Authority (MPEDA), Kochi. The Society is registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act, 1955. Being the extension arm of MPEDA, the NETFISH functions for improving the quality of fishery products exported from the country and the sustainability of fishery resources as well. NETFISH achieves this goal through grass root level capacity building activities among fishermen, boat crew, harbour workers, fisherwomen, pre-processing and processing workers, technicians, other fishery stakeholders etc. on fish quality management, conservation of fish resources and sustainable fishing.

The NETFISH Head Office is located at Vallarpadam, Kochi. The Chairman of MPEDA is the President of NETFISH and the Chief Executive Officer is the Officer in-Charge of the organization. NETFISH have its State Coordinators, based at the respective MPEDA offices in all the maritime states of India, to execute the outreach activities for the empowerment of the fisheries sector.

### ❖ MAJOR OBJECTIVES

- To function as the focal point for upgrading the technology and quality management of fishing and fish processing sectors at the grass roots level
- To organize appropriate training programmes on fish quality management and conservation of fishery resources in all the maritime states of India
- To network with stake holder organization by inducting their representatives in to the general body of NETFISH
- To assimilate, absorb and transfer technologies related to capture fisheries
- To develop systematic linkages between international & national institutions of excellence in the field of extension
- To facilitate public or private investment in infrastructure development

### ❖ ACTIVITIES & SERVICES

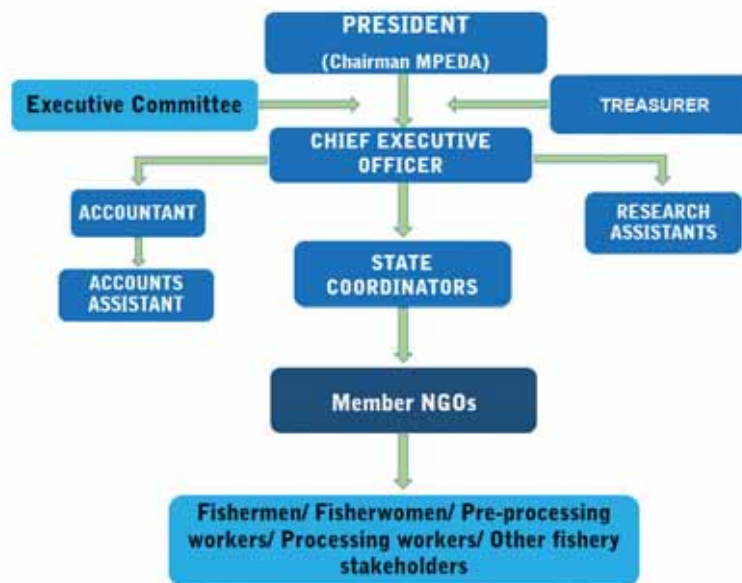
Extensive awareness programmes are being organized among fishers, fish workers and other fishery stakeholders in all maritime states of India, in order to change their mindset towards fish quality management and responsible fishing. For effective execution of programmes, various Non-Governmental Organizations (NGOs) having experience in fisheries development activities are inducted as members in NETFISH and the personals from these member NGOs are being trained on the specific subjects with the support of reputed fisheries institutes /universities / departments/scientists etc. to be utilized for conducting various extension programmes among fisher folk.

Since inception, NETFISH has successfully conducted more than 27500 extension programmes whole through the country. Repeated training programmes were conducted at areas in and around selected harbours and landing centres. NETFISH programmes include fish quality management programmes conducted at landing sites, fishing vessels, fishermen villages, pre-processing centres, processing factories and fish drying areas. Awareness programmes on conservation of marine resources and sustainable fishing are also conducted in fishing vessels, fishing harbours and nearby places. In addition, Skill development trainings and Sea Safety

trainings are being taken up for the welfare of fishers. Various projects with funding from external agencies are also carried out for the establishment of essential infrastructural facilities and skill development at the primary level. NETFISH representatives are being inducted in various co-management committees and thus plays key role in vital decision makings for the betterment of the marine fisheries sector. NETFISH also sensitize the key policy makers in fisheries for the implementation/timely amendments of rules and regulations which are vital for the sustainability of marine fisheries.

*Beneficiaries of NETFISH Programmes:* True fishermen, workers in fishing boats, boat owners, workers in harbours, auctioneers, net menders, workers in pre-processing and processing centres, workers engaged in fish drying activities, fisherwomen etc.

### ❖ ORGANOGRAM





## STRATEGIC ACTION PLAN 2018-19

The action plan for conducting extension programmes for the year 2018-19 in each region was prepared by the State Coordinators in due discussion and consultation with the member NGOs, Stakeholders and MPEDA officials. However a minimum target of 150 programmes was set for each region and the various programmes to be taken up for the year was set based on the regional requirements so as to achieve specific improvements at selected areas. The total number of programmes to be accomplished during the year 2018-19 was 1580 nos., as per the region wise breakup given in the Table 1. Month wise programmes were charted out further based on the yearly action plan.

| Sl. No: | Type of Programme / Training                                 | West Bengal | Odisha     | Andhra Pradesh | Tamil Nadu North | Tamil Nadu South | Kerala South | Kerala North | Karnataka & Goa | Maharashtra | Gujarat    | TARGET      |
|---------|--|-------------|------------|----------------|------------------|------------------|--------------|--------------|-----------------|-------------|------------|-------------|
| 1       | Square mesh popularization/ Quality Management/ Conservation | 53          | 55         | 41             | 57               | 66               | 40           | 48           | 72              | 70          | 72         | 574         |
| 2       | Square Mesh Fabrication                                      |             | 4          | 4              | 6                | 4                | 4            | 4            | 5               | 4           | 5          | 40          |
| 3       | Onboard  | 34          | 55         | 10             | 15               | 6                | 30           | 8            | 10              | 6           | 5          | 179         |
| 4       | Pre-processing Centre  | 3           | 5          |                | 5                | 6                | 35           | 37           | 5               | 5           | 16         | 117         |
| 5       | Processing Centre  | 10          | 5          | 5              | 5                |                  | 4            |              |                 |             | 15         | 44          |
| 6       | Dryfish  | 20          | 8          | 25             | 20               | 25               | 8            | 8            | 25              | 24          | 10         | 173         |
| 7       | VHSE   | 8           | 1          |                |                  |                  | 2            | 2            |                 | 2           |            | 15          |
| 8       | Hands on training on Value Addition                          | 3           | 2          | 15             | 5                | 2                | 3            | 1            | 4               | 8           | 4          | 47          |
| 9       | Other Livelihood Development Programmes                      |             |            |                |                  |                  |              |              |                 |             | 1          | 1           |
| 10      | Exposure Visits  | 1           | 2          | 5              |                  | 1                |              |              |                 | 2           | 2          | 13          |
| 11      | GPS Handling/Eco sounder                                     | 3           |            | 5              | 15               | 8                |              |              | 5               | 5           | 3          | 44          |
| 12      | Tuna Processing  |             |            | 20             |                  | 1                |              |              |                 |             |            | 21          |
| 13      | Clean-up programmes  | 4           | 2          | 5              | 4                | 3                | 3            | 3            | 5               | 5           | 2          | 36          |
| 14      | School Children Awareness                                    | 5           | 2          | 5              | 5                | 4                | 2            | 2            | 5               | 5           | 6          | 41          |
| 15      | Sea Club   |             |            |                |                  | 4                |              | 1            |                 |             |            | 5           |
| 16      | Sea Safety & Navigation                                      | 5           | 8          | 5              | 10               | 6                | 5            | 5            | 5               | 5           | 5          | 59          |
| 17      | Other Special programmes                                     | 3           | 2          | 6              | 4                | 19               | 50           | 49           | 10              | 23          | 5          | 171         |
|         | <b>Total Programmes</b>                                      | <b>152</b>  | <b>151</b> | <b>151</b>     | <b>151</b>       | <b>155</b>       | <b>186</b>   | <b>168</b>   | <b>151</b>      | <b>164</b>  | <b>151</b> | <b>1580</b> |

*Table 1: Target set for each region for conducting extension programmes during 2018-19*

## OUTREACH ACTIVITIES 2018-19

In the financial year 2018-19, a total of 1587 extension programmes were conducted, benefitting around 54205 fishers/fishery stakeholders. Apart from the regular extension trainings, NETFISH had coordinated with MPEDA and Department of Fisheries for preparation of various inspections, formation of Fisheries Management Societies, PMKVY trainings, Exhibitions, Fish festivals, etc

| Sl No. | Type of Extension programme          | Total No. of programmes | Total No. of Beneficiaries |
|--------|--------------------------------------|-------------------------|----------------------------|
| 1      | Fish Quality Management/Conservation | 604                     | 17449                      |
| 2      | Square Mesh Fabrication              | 48                      | 2174                       |
| 3      | On-board                             | 136                     | 1771                       |
| 4      | Pre-processing                       | 112                     | 3300                       |
| 5      | Processing                           | 40                      | 1222                       |
| 6      | Dry fish                             | 185                     | 5425                       |
| 7      | VHSE                                 | 19                      | 794                        |
| 8      | Value Addition of Fishery Products   | 39                      | 1063                       |
| 9      | Exposure Visits                      | 2                       | 30                         |
| 10     | GPS Handling/Eco Sounder Training    | 27                      | 785                        |
| 11     | Tuna Onboard Processing              | 14                      | 240                        |
| 12     | Cleanup Programmes                   | 31                      | 2162                       |
| 13     | School Programmes                    | 39                      | 2956                       |
| 14     | Sea Club                             | 5                       | 195                        |
| 15     | Sea Safety Programmes                | 53                      | 1881                       |
| 16     | Street Plays                         | 95                      | 5865                       |
| 17     | Exhibitions                          | 2                       | 500                        |
| 18     | Fishermen Aid Programme              | 7                       | 500                        |
| 19     | MPEDA Subsidy Scheme                 | 16                      | 400                        |
| 20     | PMKVY Programme                      | 78                      | 2340                       |
| 21     | Other Special Programmes             | 35                      | 3153                       |
|        | <b>Total</b>                         | <b>1587</b>             | <b>54205</b>               |

*Table 2: Various types of Extension programmes conducted during 2018-19*

| Type of Programme | West Bengal | Odisha | Andhra Pradesh | Tamil Nadu North | Tamil Nadu South | Kerala South | Kerala North | Karnataka & Goa | Maharashtra | Gujarat | TOTAL |
|-------------------|-------------|--------|----------------|------------------|------------------|--------------|--------------|-----------------|-------------|---------|-------|
| FQM/CSF           | 59          | 60     | 40             | 64               | 65               | 55           | 50           | 72              | 66          | 73      | 604   |
| Sq.Msh. Fabrncn.  | -           | 8      | 4              | 4                | 4                | 4            | 5            | 6               | 4           | 9       | 48    |
| On-board          | 43          | 62     | 1              | 3                | 2                | 7            | 8            | 1               | 4           | 5       | 136   |
| Pre-processing    | 3           | 5      | 1              | 4                | -                | 35           | 38           | 4               | 5           | 17      | 112   |

|                    |            |            |            |            |            |            |            |            |            |            |             |
|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Processing         | 11         | 4          | -          | -          | 5          | 4          | -          | -          | -          | 16         | 40          |
| Dry fish           | 25         | 9          | 24         | 29         | 27         | 8          | 8          | 22         | 24         | 9          | 185         |
| VHSE               | 12         | 1          | -          | -          | -          | 3          | 2          | -          | 1          | -          | 19          |
| Value Addition     | 3          | 2          | 10         | 4          | -          | 3          | 1          | 5          | 6          | 5          | 39          |
| Exposure Visits    | -          | 2          | -          | -          | -          | -          | -          | -          | -          | -          | 2           |
| GPS Handling       | 2          | -          | 2          | 11         | 5          | -          | -          | 3          | 4          | -          | 27          |
| Tuna Processing    | -          | -          | 14         | -          | -          | -          | -          | -          | -          | -          | 14          |
| Cleanup            | 5          | 2          | 1          | 3          | 1          | 4          | 3          | 5          | 6          | 1          | 31          |
| School             | 7          | 3          | 4          | -          | 3          | 2          | 4          | 5          | 5          | 6          | 39          |
| Sea Club           | -          | -          | -          | -          | 4          | -          | 1          | -          | -          | -          | 5           |
| Sea Safety         | 5          | 8          | 2          | 9          | 0          | 5          | 9          | 5          | 5          | 5          | 53          |
| Street Plays       | -          | -          | -          | -          | -          | 35         | 40         | -          | 20         | -          | 95          |
| Exhibitions        | -          | -          | 1          | -          | -          | -          | -          | 1          | -          | -          | 2           |
| Other Programmes   | 12         | 12         | 14         | 8          | 14         | 16         | 15         | 23         | 8          | 14         | 136         |
| <b>Grand Total</b> | <b>187</b> | <b>178</b> | <b>118</b> | <b>139</b> | <b>130</b> | <b>181</b> | <b>184</b> | <b>152</b> | <b>158</b> | <b>160</b> | <b>1587</b> |

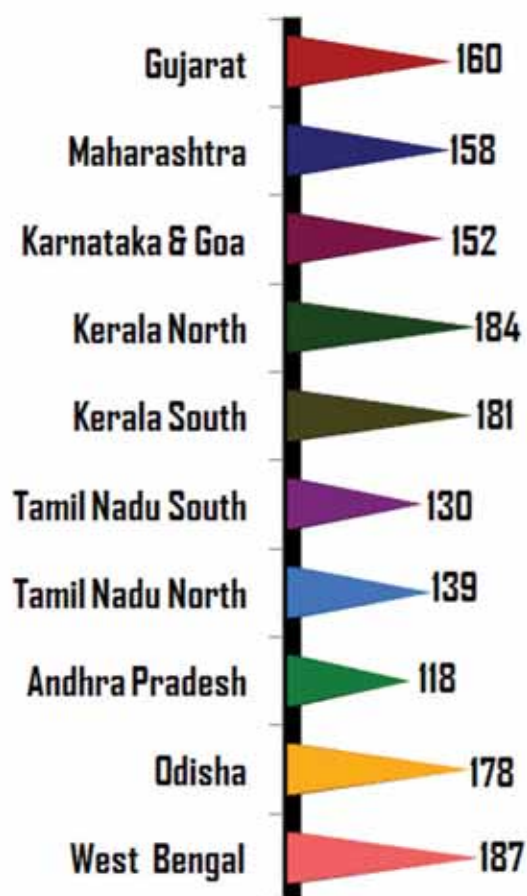


Table 3 & Fig. 1: State wise Details of Extension Programmes conducted during 2018-19



## FISH QUALITY MANAGEMENT PROGRAMMES

Improving quality and sanitation at various points of fish handling is critical as quality standards are becoming an important requirement for fish trading. Capacity building for all those involved in the value-chain is an important part of improving standards and quality. With an aim to strengthening handling, hygiene and sanitation practices by the relevant stakeholders NETFISH conducted awareness activities onboard fishing vessels, at harbours/landing centres, fishermen villages, pre-processing and processing centres and dryfish units during the year.

### 1. Onboard Programme:



About 136 awareness trainings were conducted onboard commercial fishing vessel to rendering awareness and practical training to the fishermen, boat crew, boat driver etc. about hygienic handling of fish and ice onboard. The programmes included classes, demonstrations and subsequent discussions with trainees regarding various quality problems onboard. Leaflets and posters pertaining to hygienic handling practices onboard fishing vessels were explained and distributed to the trainees and videos relevant to the subjects were also shown. Crates, plastic shovels, plastic baskets, cleaning kit, etc. were also provided during the programmes to the boats to encourage the fishers to practice what was taught.

### 2. Tuna Processing Training:

Awareness cum hands on training to fishers on the onboard handling methods and processing of Tuna for sashimi were conducted for fishers, especially the fishing crew members who are involved in Tuna long lining in Andhra Pradesh. A total of 14 trainings were arranged in the state



during the year in which the trainees were taught the systematic procedure for production of sashimi grade tuna onboard. The essential tools such as gloves, hammer, spike, monofilament nylon or stainless steel wire, drop blood knife, sharp knife, brush, coring tool etc. were familiarized to the trainees. Then hands on training on killing, spiking, bleeding, degilling, degutting, chilling in slurry ice, preservation and storage was given to them. Tuna Kit was also provided to a few mechanized boat owners in some of the programmes and a training manual printed in Telugu was distributed for future reference.

### 3. Harbour/Landing centre/Village Programmes:

For generating awareness among fishers, auctioneers, fish handling workers, ice handling workers, etc. who are involved in handling fish and ice at landing sites more than 600 awareness classes were organized during 2018-19 by NETFISH across the maritime states. Hygienic handling of fish, personnel hygiene, proper handling of ice, importance of regular cleaning schedule etc. were taught in the programme. Interaction with trainees regarding various quality issues at landing centres were done and various NETFISH posters, leaflets, short films and animation films were explained to them. Rubber gloves, plastic shovels, plastic baskets, T-shirts, caps etc. were distributed instead of stipend in most of the programmes.



### 4. Pre-processing Centre Programme:

The materials taken from the landing sites are further processed at pre-processing units and hence the workers at these pre-processing units forms an important link in keeping the quality of the fishery products. The workers, Technologists and Supervisors of selected PPCs were trained by around 112 awareness trainings conducted by NETFISH with the aid of leaflets, posters and movies. Practical demonstrations of change room activities, hand washing procedure were also done in the programme. Aprons, uniforms, caps, mouth cover and gum boots were distributed to pre-processing workers using the stipend money in selected PPCs.



### 5. Processing Centre Programme:

During the year 2018-19, a total of 40 awareness trainings were organized at processing units, mostly on demand basis. The processing workers, supervisors and technologists of processing centers were taught about sanitation & hygienic practices at work, HACCP system, hygienic handling of shrimps, fish spoilage and the role of microbes, personal hygiene etc. Film on sanitation and hygienic practices in seafood processing centre were shown to the trainees and posters and leaflets were distributed to them.



### 6. Dry fish Programme:

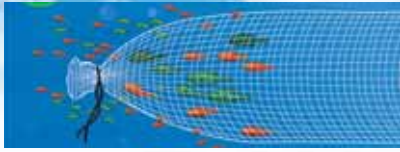
A total of 185 awareness classes were conducted for the dry fish workers and other stakeholders of dry fish industry for the improvement of hygienic production of dry fish products. Hygiene method of fish drying, latest technologies for drying, abuse of harmful chemicals & pesticide on dry fish, marketing strategies etc. were highlighted during the programme. Hands on training on washing of fish, cleaning of fish contact surfaces, selection of raw materials, preparation of bed for drying, packaging and storage of finished products were given to the trainees.



## Training on Good Fishing Vessel Practices

A training programme on 'Good Fishing Vessel Practices' to crew of fishing vessels in Thengaipattinam Fishing Harbour, Tamil Nadu with emphasis on quality control and deck maintenance was conducted on 7th December 2018, based on the request from the State Fisheries office, Chinnamuttom. The way a fish is caught and stored is one of the most important elements of seafood safety and quality. Good harvesting, handling and storage practices that minimize the risk of food safety problems help to preserve the value of the product. In this regard, 12 boat crew of two mechanized fishing boats of Thengaipattinam were trained on 'Good Fishing Vessel Practices for handling Tuna On-board' emphasizing the use of ice, hygienic handling, importance of dress code, proper cleaning of fishing vessels etc. Dr. Vinoth S. Ravindran, State Coordinator NETFISH preached the fishers on hygienic handling practices to be followed onboard and also demonstrated the same in the programme. The training offered by NETFISH has helped to a great extent in satisfying the Japanese Tuna buyers who visited the Thengaipattinam, Colachel and Muttom fishing harbours during December 2018. Seeing the quality of fish, they had expressed the willingness to buy Tuna from the deep sea fishermen of Thoothoor region in western Kanyakumari district, assuring a much better price.





## CONSERVATION ACTIVITIES

Sustainability of marine fishery resources is one of the major objectives of NETFISH and to achieve this, capacity building programmes were conducted to fishers and other fishery stakeholders on conservation of fish resources and responsible fishing. Awareness classes were conducted in fishing vessels, fishing landing sites and fishermen villages to strengthen the knowledge of stakeholders and to change their mindset towards sustainable fishing. Besides, practical demonstrations and skill development trainings, street plays, student's awareness programmes, workshops and stakeholder's meetings were also conducted to achieve the objective.

### 1. Onboard/Harbour/Landing Centre Programme:

Awareness classes on fishery conservation and sustainable fishing were organized onboard, at harbours, landing sites and nearby fishermen villages during 2018-19 across the maritime states by which the fishers, auctioneers, harbour workers, boat owners etc. were sensitized about the need for conservation of fishery resources for the sustainability of the marine fishing industry. By around 600 programmes conducted during the year, the beneficiaries were taught about responsible fishing and sustainable fishing methods. Landing of huge quantities of juveniles of commercially important species at harbours and the impact of juvenile fishing were highlighted and the trainees were made aware of the Minimum Legal Size (MLS) in fisheries. The stakeholders were urged to follow fishery regulations for the benefit of the sector. NETFISH posters, leaflets, bit notices, short films and animation films relevant to the topic were explained to them.



### 2. Square Mesh Popularization:

Square mesh cod-ends, compared to its diamond predecessor, has many advantages such as escapement of juveniles fish and other valuable marine organisms as well as less fuel consumption. During the awareness classes, the advantages of square mesh cod ends over conventional diamond mesh cod ends in trawls were explained to the fishers and the results of onboard trials done by NETFISH using square mesh cod ends were presented to convince them. A few of the selected fishing vessels were provided with square mesh cod ends to use and understand its advantages by own experience and thus to spread the usage of square mesh cod ends among fishers.





### 3. Square Mesh Fabrication Training:

Though use of square mesh cod end is reported as an effective measure to ward off juvenile fishing, its ready availability for purchase is found to be a constrain and therefore the fishers even if wanted to change to square mesh cod ends cannot obtain it easily. Only a few net manufacturers are capable of making the square mesh cod ends in commercial scale, but they are doing it only on need basis. To overcome this snag, fabrication technique to convert the existing diamond mesh cod ends to square meshed ones was developed by one of the leading fisheries research institutes of the country ICAR-CIFT. As part of the wide campaign to popularize square mesh cod-ends in trawl nets and thus to promote responsible fishing practices, NETFISH with the technical support of CIFT took up the initiative to teach the fabrication technique to the fishers and thus conducted 48 nos. of hands-on training programmes on 'fabrication of square mesh cod-ends' for the fishers and net menders in Gujarat, Maharashtra, Karnataka, Goa, Kerala, Tamil Nadu, Andhra Pradesh and Odisha during the year.

The training programmes were organized with the following objectives;

1. To train the net makers the technique of conversion of diamond mesh to square mesh cod-end.
2. Popularize the square mesh cod-ends in trawl fishing sector.
3. To create a general awareness about the sustainability and need of urgent steps in this direction in fisheries sector.

Most of the trainings were carried out with the support of technical personnel from CIFT and in a few of the programmes NETFISH trained net menders or CIFNET trainers were the resource persons. In the programme, first the trainees were introduced to the advantages of square mesh cod ends and explained the fabrication technique for converting diamond meshed net to square meshed ones. Then the trainer had demonstrated the step by step methodology of fabrication process. After the demo, the trainees were given diamond mesh net pieces and made to fabricate square mesh net out of it by using the simple method of cutting and joining. The converted square mesh was collected back, inspected and corrections / suggestions were made wherever necessary. By the training, the participants were able to learn the skill to fabricate square mesh nets from diamond meshed nets. They were happy about the simplicity of the methodology used

for the conversion and expressed their satisfaction. In Karnataka, an onboard fishing trial was also conducted as part of the training, where the trainees were taken onboard a fishing vessel to show the efficiency of square mesh cod ends. In Kerala, a few square mesh cod ends were supplied by NETFISH to encourage the fishers to use such cod ends.

### NFDB sponsored Square Mesh Fabrication Trainings

This year, NETFISH could earn financial assistance from NFDB, Hyderabad to carry out 36 numbers of Skill development programme on “Fabrication of Square mesh cod-ends” across the country. A total amount of Rs. 18.68 lakhs was received from NFDB for conducting the trainings, by which 1800 beneficiaries including fishers, boat owners and net menders were taught the square mesh fabrication technique. Each participant was given a training certificate in the end of the programme.





## VALUE ADDITION OF FISHERY PRODUCTS

Aiming the upliftment of the marginalized fisherfolk groups, skill development training on 'Production of Value Added Fishery Products' were organized by NETFISH, especially for fisherwomen. During the year 2018-19, thirty nine hands on training were conducted along all the maritime states of India. Potential groups of women from the coastal villages who are interested to take up value addition of fishery products as a source of livelihood were mostly inducted for the training programmes and they were given practical training on the preparation of fish based items such as fish cutlet, fish finger, fish roll, fish samosa, dry prawn masala, fish wafers, fish curry, fish pickle, dry prawn chutney, fish soup and traditional fish fry etc. Training materials consisting of details of ingredients and recipe for each product in local languages were given to all the participants. The trainees actively participated in the trainings and after tasting the prepared products, got themselves convinced about its quality and taste.

After attending the training a few of the fisher women SHGs have started setting up stalls in fairs as well as at major localities selling different value added fishery products and earning a good income. The fisherwomen of SHG at New Jaldah, Mandermoni, Purba Medinipur and Sebika, Junput had put up stalls in the Fish fare at Nachinda, Purba Medinipur and in the Bengal Fish Fest 2019 at Salt Lake City, Kolkata selling different value added products, fish & prawn pickles and dry fish items earning good profit. The SHG at New Jaldah, Mandermoni, Purba Medinipur also started giving their value added products to BENFISH for marketing. The fisher women of Dhobaberia SHGs are selling their products to local areas/markets. NETFISH trained Fisherwomen group of Umargam has started making "Fish Samosa" from low value fish and is earning good income by selling it near Umargam bus stop on daily evening. After attending the NETFISH programme, the fisherwomen of Veraval got inspired and prepared fish Pizza and fish Manchurian by their own recipes and ideas. They had installed a Seafood Stall in the community Mela at Chorwad and earned Rs.18000/- in three days. Another trained fisherwomen group named "Sagar Manthan Machhimar Utthan Mandal" had installed a stall in tradition Mela at Somanth, Veraval and earned Rs.16000/- in three days by selling fish samosa, cutlet, pizza, burger etc.



## NETFISH-MPEDA Unveiled A Mobile Kiosk for Value Added Fishery Products

As a continuation of various activities for the livelihood improvement among fisher folk, NETFISH developed a mobile kiosk named as 'Fish Nutricart', with a view to empower ladies Self Help Groups by providing a means for their livelihood improvement. The MPEDA Chairman Shri. K. S. Srinivas IAS unveiled the cart in a function held on 5th October 2018 at MPEDA Head



Office, Panampilly Nagar, Kochi. Shri. B. Sreekumar, Secretary, MPEDA; Shri. Rama Shankar Naik, Commissioner of Fisheries, Andhra Pradesh; Dr. Joice V. Thomas, Chief Executive, NETFISH and Smt. Sunita Sajeev, member of Amrutha Activity Group spoke on the occasion. In the function the vehicle was handed over to Amrutha Activity Group, a self-help group of women under Society for Assistance to Fisherwomen (SAF), after signing a MoU between NETFISH and the women group.

This is the first ever mobile kiosk which is exclusive for seafood in Kerala. The cart will be run by the ladies group, making available the fish based products at major spots in Kochi. The products include fish cutlet, fish ball, fish finger, fish samosa, fish biryani and prawn biryani, besides dishes made out of squid, crab and other indigenous fish varieties. NETFISH had launched this Nutricart, aimed at familiarizing quality seafood delicacies among general public along with women empowerment.





## SEA SAFETY & NAVIGATION TRAINING

In the recent past, a series of cyclones devastated Indian states and thousands of fishers had lost their lives, which could have been avoided with usage of appropriate sea safety equipments and communication devices. To ensure the safety of fishermen at sea and make coastal communities more resilient to disasters at sea, NETFISH has initiated giving awareness training programmes for fishers on Sea Safety and Navigation. A total of 53 numbers of Sea Safety awareness classes and 27 numbers of GPS/Eco sounder training programmes were conducted during the year benefitting more than 2500 fishers. Proper awareness on important lifesaving equipment, communication devices and distress signals will persuade them to keep suitable lifesaving equipments and communication devices onboard fishing vessels.

**Sea Safety Programme:** The programmes were mostly aimed to enhance the knowledge of fishers on sea safety and to familiarize important measures for ensuring safe fishing. The trainees, mostly the boat owners, boat drivers and crew members, were enlightened the sea safety issues and indicate various practical measures to be taken for safe navigation and fishing. Different lifesaving equipments, marine communication devices, navigational tools, lights and signals etc. were described in the programme and the guidelines for fishermen to ensure safety at sea while fishing were also mentioned. Many of the programmes were conducted in collaboration with Fisheries Department and Coast Guard. The officials from the Coast Guard explained in detail about 'Distress alert and obtaining Coast Guard Assistance at sea', 'Importance of Automated Information System (AIS) in fishing vessels', 'Issues in using Chinese VHF sets onboard', 'Sea safety equipments needed onboard' and 'other security measures' etc. Demonstration on proper usage of various sea safety equipments was also done in the programme. A lecture along with demonstration on Cardiopulmonary Resuscitation (CPR) lifesaving technique was given during some of the programmes and a video on CPR procedure was shown to the fishermen for better understanding. Pamphlets emphasizing the checks that fishermen need to carryout prior venturing into the sea, while at sea and post fishing, were distributed to the trainees.



**GPS Handling/Eco Sounder Training:** NETFISH in association with its member NGOs and with the support of technical experts from GPS traders, had executed 27 training programmes on handling of Global Positioning System (GPS) for the fishermen in various coastal states. The major objectives were to provide systematic training to fisher folks on GPS handling and troubleshooting techniques and thus to improve the fishing efficiency of fisher folk by reducing fish searching time, diesel consumption and the level of carbon emission as well as to ensure safe navigation.

The fishers were made aware on various GPS receivers, accuracy, signal reception, recording a waypoint, navigating to the recorded waypoints, using GPS waypoints in rescue, function of proximity alarm, troubleshooting etc. Also the trainees were explained about latitude, longitude and how it relates to the degree, minutes and seconds of GPS coordinates. The combination of theory and practical sessions enabled the beneficiaries to understand many options and features available in GPS and its uses.



## CYCLONE RELIEF by NETFISH

A very severe cyclonic storm named GAJA had hit the coasts of Southern Tamilnadu in the coasts of Tanjavur, Puthukottai and Nagapattinam Districts on 16 November 2019. Many fishermen and common people lost their livelihoods and a few lives were also lost. The fishing village of Sethubhavachatram and Mallipattinam in Tanjore District were totally devastated and lost most of its boats. Both are fishing hamlets where NETFISH has conducted several training programmes including sea-safety programmes. The State Coordinator visited the villages to comfort and assess the disaster, and found that the villages are cut off from basic amenities of food, water and medicine. The fishermen expressed their grief in losing their boats and livelihood and they sought the support of NETFISH. Considering the anguished situation of the fishers, NETFISH provided immediate relief materials to the GAJA cyclone affected fishermen of Sethubhavachatram and Mallipattinam, Tanjore district. The relief materials consisted of rice, grocery, oil, candles, mosquito repellents, lighters, medicines, sanitary napkins and T-Shirts were transported from Tuticorin and distributed among the affected fisherfolk on 21.11.2018. About 1000 people were given immediate relief during the natural calamity. The beneficiaries thanked NETFISH-MPEDA to have taken such an initiative at the time of distress.





## AWARENESS PROGRAMMES FOR STUDENTS

Educating school and college students about fisheries sector and the importance of marine ecosystem for sustaining the ecological balance of the nature are considered unavoidable as the children are the future generation to steer the nation in the right path. Unless they are not having proper awareness on the marine resources and fisheries, they may be reluctant in protecting the resources. Hence, NETFISH has been giving awareness training programmes, especially for the students of schools along the coastal belts as well as the students in the fisheries stream at VHSE colleges.

### School Children Programme:

To percolate the messages on Fish quality management, Conservation of fish resources, Sustainable fishing, Personal hygiene & sanitation, environment & ecology acts & rules of State & Central Govt. for fisheries conservation, pollution etc. NETFISH arranged 39 awareness programmes at schools along the coastal villages, so that the children can aware their parents and other family members who are engaged in farming of shrimps, fishing and allied activities in the coastal areas. The programme mostly consisted of lectures on sustainable fishing, different aspects of marine conservation, protection of mangroves, marine turtles, sustainable fishing, pollution, etc. Besides, topics such as 'present status of the fishery resources and exports of the state and the country', 'personal hygiene' and 'acts & rules by State & Central Govts. for fishery conservation' were also covered. The children were shown animation and documentary films on relevant subjects and circulated leaflets and posters on the topics.



### VHSE Programme:

As part of familiarizing the vocational school students on various fishing methods, post-harvest handling, processing, fish farming, fishery conservation etc. NETFISH had organized 19 awareness programmes in vocational schools where fisheries/aquaculture is taught as a subject at plus one & plus two level. In the programme, models of different types of fishing gears were exhibited and explained to the students and classes on hygienic fish handling and sustainable fishing were also delivered. NETFISH leaflets and posters were given to the students for better understanding of various topics. Documentary and animation films on Fish Quality Management and Conservation were also screened.



## Campus Selection Programme For VHSE Students

A campus selection programme for the recruitment of vocational fishery students at various seafood companies was organized on 1st March 2019 at Dr. Jadunath Junior College, Rasalpur, Balasore, Odisha. The programme was arranged as per the request from the principal of the college, and the State Coordinator had involved Sea food companies having integrated projects like aquaculture, Hatchery and Sea food processing unit. Two seafood processing companies, viz. M/s. Rams Assorted Cold Storage, Bhubaneswar and M/s. Surya Udyog Ltd., Paradeep came forward to conduct the campus recruitment. The Factory Manager and General Manager of the companies did the selection process through written examination and viva voce. Around 23 candidates participated in the programme and 8 candidates were selected for the job in seafood processing company. Since last 2 years NETFISH had been conducting training programmes for the fishery students of this college and by this programme NETFISH had provided job opportunities for the trained students. The programme was a great success and this type programme is first in the account of NETFISH







## SEA CLUB PROGRAMMES

With the intention to develop a group of student volunteers, willing to work among fisherfolks by organizing various extension programmes, NETFISH has formed Sea Clubs in various fisheries colleges. The Seaclubs formed in Kerala and Tamil Nadu had organized 5 nos. of awareness programmes during the year 2018-19.

NETFISH Sea Club at St Albert's College, Ernakulam had conducted an awareness campaign and beach clean-up events on 26th June 2018 at Vypeen and Fort Kochi beaches, in connection with World Oceans Day celebration. A formal inaugural function and awareness talks were held at the college, following which the sea club members and staff members set out to clean-up the beaches. The team consisted of 40 students guided by 4 teachers of the Sea Club actively cleaned the Vypeen beach in the forenoon and the Fort Kochi beach in the afternoon. NETFISH CEO and State Coordinator also took part in the clean-up activity. Around 30 bags of waste materials consisted of plastic bottles, glass bottles, empty cans of soft drinks, slippers, styroform pieces, net pieces, plastic carry bags etc. were collected from the beaches. Hand gloves, face masks, and caps were provided to the participants by NETFISH.



The Sea Club in the Fisheries College and Research Institute (FC & RI), Tuticorin had conducted 4 nos. of awareness workshops/seminars for the fishers and the students during the year. The first event was an awareness programme on “Conservation of Critical Habitats” held on 30th January 2019 at the institute, in which special lectures on ‘Conservation of coral reefs’, ‘Conservation of mangroves’ and ‘Conservation of seagrass ecosystems’ were arranged for the participants. The NETFISH State Coordinator, Dr. Vinoth S. Ravindran, urged the fishers to get involved in conservation of critical habitats by avoiding illegal fishing practices. A book on “Conservation of Critical Habitats” in Tamil was also released in the programme. A one day seminar on the topic “Tamil Nadu Marine Fishing Regulation Act (1983)” was organized on 31st January 2019 in which the fishers and students were sensitized about the importance of TNMFRA, the need of wide awareness and involvement of fishermen in implementing the Act, best fishing practices to be followed at open sea, methods to be followed for implementation of the Act, rules regarding registration of fishing vessels, licensing of boats, movements of vessels in the sea etc. On 21st February 2019, a one day workshop on “Popularization of square mesh panels trawl cod ends” was held at Tuticorin. Dr. I. Jagadis, Principal Scientist, CMFRI, Tuticorin was the Chief Guest of the function and he highlighted on the importance of By-catch Reduction Devices (BRDs) for solving



economic loss in trawling. SCO NETFISH, highlighted the growing awareness on responsible fishing techniques among fishers in recent years. Designing of square mesh panel and fitting the same in the cod end of the trawl nets was also demonstrated during the programme. The fourth event was a workshop conducted on 28th February 2019 on the topic “Hygienic Production of Dry fish”. The dignitaries present in the programme spoke about the importance of fish as a valuable source of human nutrition, marketing strategies of dry fish products in foreign markets, income generation of fisher folk through supply of quality dry fishes, etc. Hygienic production of dry fish and its packaging was also demonstrated during the workshop. A panel discussion was arranged in all the programmes at Tuticorin so as to get the views of the participants and finally participation certificates were distributed.



## EXPOSURE VISITS

An exposure visit was arranged in Gujarat on 10th July 2018 to create awareness among fisherwomen on hygienic preparation of value added fishery products for fetching good price and to improve quality of sea foods. Fisherwomen of Umargam fish landing center were the participant of the programme and they were taken to CIFT & CMFRI where lectures on the activities of the institutes, their research developments etc. were explained. Afterwards the participants were taken to the work shop of CIFT where various fishing technology were explained by CIFT



officials and then to various divisions of CIFT where dry fish packing methods, fish processing, preparation of value added fishery products etc, were explained. The participants were also taken to MPEDA & College of fisheries and finally to Veraval fishing harbour. The fisherwomen were well satisfied seeing and understating various technologies and it proved an encouragement for them to form an SHG and to attend some professional trainings at the institutes visited, for their livelihood development.



To introduce to hygienic handling measures maintained in processing plants, 2 nos. of exposure visits were conducted for the trawler crew members, auction hall workers and fishing harbour staff of Paradeep fishing harbour to a seafood processing plant during 15th & 16th December 2018. The programmes aimed to introduce the participants to sanitation, hygienic conditions as well as fish quality management standards maintained in sea food unit and thus to encourage them to implement the similar standards in fishing vessels, auction halls and in fishing harbours. The different extension tools of NETFISH relevant to the topic, such as posters, leaflets, booklets, documentaries and animations etc. were explained to the beneficiaries.



## CLEAN-UP EVENTS

To improve the hygiene at fish landing sites as well as to conserve the ocean from marine pollution, a total of 20 numbers of clean-up drives were organized along all the maritime states. The fishers as well as the general public were preached on the need of cleanliness of fish contact surfaces for maintaining its quality and the importance of avoiding plastic pollution in



protecting the seas and its resources. NETFISH had joined the 'Swachhata Hi Seva' campaign by Government of India by organizing 9 harbour/coastal clean-up programmes across all the coastal states of India and also formed the part of the 'Swachhata Pakhwada' fortnight announced by the Ministry of Commerce & Industry from 1st to 15th November 2018 by conducting harbour clean-up programmes in Thoppumpady and Munambam in Kerala.



In all the cleanup activities, NETFISH distributed gunny bags, brooms, gloves, caps and hygiene kits consisted of liquid hand wash, hair oil, comb, tooth paste & brush etc. as cleaning aids. Fisheries officials, Fishermen association members, boat owners, crew members, fisher women workers and school children's were actively involved in the programmes and removed all sorts of wastes such as plastic bottles, carry bags, plastic packets, broken nets, thick grass, fallen leaves etc. from the harbour/landing centre/beach premises and disposed them safely.



## CELEBRATION OF WORLD DAY

✱ **World Environment Day:** On 5th June 2018, NETFISH in association with Coastal Police Station Neendakara, Suchitwa Mission of Kollam, Kollam Corporation & Fort Church Kollam organized a harbour clean-up programme at Thankassery Fisheries Harbour and an awareness class on the topic “Beat plastic pollution”. More than 300 people including NSS volunteers from S. N. College Kollam, TKM College Kollam and Pakkulam H S S participated in the programme. The plastic waste collected during the clean-up programme was handed over to Suchitwa Saagam project for shredding.



✱ **World Oceans Day:** To commemorate the day, two events were organized during the year; (1) A clean-up programme was organized jointly by NETFISH, Neendakara Coastal Police and Alappad Grama Panchayath on 8th June 2018 at Azheekkal Fishing Harbour. NSS Volunteers, Fish workers and other coastal people had actively involved in the clean-up mission. The programme also helped to create awareness on the need for keeping sea and coastal area free of plastic wastes. The wastes collected during the event were sent to the plastic shredding unit established at Neendakara. The clean-up drive was started with a rally by the participants to the harbour via Azheekkal beach. (2) A stakeholder’s meeting on the topic “Moving Towards Sustainable Fishing” was held at Mangrol harbour on 8th June 2018 to celebrate the ‘World Oceans Day’. Officials of Dept. of Fisheries, MPEDA, CIFT, CMFRI, College of Fisheries and President & members of Boat Associations attended the programme. Invited talks on ‘the present scenario of marine fish catch and sustainable fishing’ and ‘the use of square mesh cod end in conserving juvenile fishes’ were done. Thereafter the stakeholders gave their views on sustainable fishing and the possible measures to be taken to protect undersized fishes. Finally, all the participants took an



oath to conserve the marine resources by avoiding juveniles fishing, implementing 40mm square mesh cod end in trawl and not throwing plastic wastes in to seas.

- ✳ **World Fisheries Day:** To highlight the importance of healthy oceans and to ensure sustainability of fisheries resources World Fisheries day is celebrated worldwide on 21st November. This year NETFISH had organized a few events including clean-ups, awareness meetings, medical camp etc. to commemorate the Day. (1) On 22.11.18, a medical camp was conducted at Freserganj, West Bengal, which had participation from around 100 sea going fishermen and their family members. The importance of personal hygiene for better health was explained to the fishers. Check up for general health, blood pressure, blood sugar, gynecological and ophthalmological issues etc. were done by the medical team from Bankura Medical College and the needy were dispensed free medicines. (2) The event held in Kerala on 29.11.18 consisted of a mass awareness programme on Sea Safety along with distribution of Life jackets to 160 fishermen of Munakkakadavu landing center in Thrissur. Kadappuram Grama Panchayat President had distributed the life jackets in a function presided over by CEO NETFISH. NETFISH State Coordinator delivered the class on sea safety to fishermen. (3) A beach cleaning programme was arranged on 24.11.18 at Rewas-Bodni beach in Maharashtra by involving fishermen, fisherwomen, members of Managing Committee of Malhari Martand Machchimar V.K.S. Sanstha, State Coordinator NETFISH and member NGO. T-shirts, Caps and cleaning aids were distributed to the participants. About 2 tons of debris including plastic sheets, pet bottles, foot wears, thermocol, tyres, cement bags, cans, plastic glass and pieces of fishing nets, clothes and bamboo baskets were collected. SCO had delivered a speech on the effects of pollution on marine environment and fish population. (4) In Andhra Pradesh the Day was celebrated with a mass awareness meeting and a boat registration drive held on 22.11.18 at Pudimadaka. State Coordinator NETFISH talked about the need for conservation of fishery resources and measures to be taken for sustainable fisheries. He also explained on IUU fishing, catch certification system and fishing boat registration to the boat owners. The Society President made the fishers understand about the problem of open defecation and he ensured his cooperation in setting up new toilet blocks. (5) In TamilNadu, clean-up programmes were conducted on 21st & 30th November 2018 at Cuddalore and Karaikal harbour



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respectively to commemorate the Day. On the eve of World Fisheries Day, NETFISH, Chennai and SOHES jointly organized a cleanup program at Cuddalore Harbour in collaboration with Fisheries Department, which had participation of 50 fishers in and around Cuddalore and more than 50 fishers from association. About 200 kgs of solid wastes were collected from the harbour premises. The other cleanup at Karaikal harbour was conducted by NETFISH & FPO in association with Fisheries Dept. and had participation of 80 fisherfolks from Karaikal.



They collected 400 kgs of solid waste dumped in and around the harbour. (6) NETFISH in Odisha organized a sports programme at Paradeep Harbour, on 28th November 2018 with the active participation of around 100 people including Trawler association owners, fishermen, net menders, boat crews, Harbour cleaning staffs etc. State Coordinator, NETFISH highlighted on the importance of the World Fisheries Day and about importance of hygiene at harbour and personal hygiene. Various race competitions and tug of war were conducted for the participants and the winners were given medals and trophies.



## EXHIBITIONS

- ✱ **Mathrubhumi Karshika Mela 2018:** NETFISH jointly with MPEDA RD, Kochi had taken part in the 'Mathrubhumi Karshika Mela (Agri Fest) 2018' held at Perumbavoor from 4-10 April 2018. In the stall a demo unit of Aquaponics system was set up, which had attracted huge number of visitors. The crowd showed keen enthusiasm to know about the Aquaponics system and the cost for setting up such a unit at home. The entire fact and figures about Aquaponics were explained and handouts on Aquaponics were distributed to the needy. Besides, a few posters by NETFISH bearing information on its activities, trawl ban period, fish production of Kerala, Minimum Legal Size in fisheries and coastal pollution were displayed in the stall for the public.
- ✱ **Marine Science Expo:** NETFISH had taken part in the 'Marine Science Expo' held along with the 'International Conference on Benthos (ICB 19)' organized by the Department of Marine Biology, Microbiology & Biochemistry, School of Marine Sciences, Cochin University of Science and Technology, during 6th to 8th March 2019 at the Seminar Complex in Kalamassery. A stall consisting of posters illustrating various activities of NETFISH and different topics dealt with





as part of its extension activities across the country such as Minimum Legal Size, Square mesh cod end, Marine pollution, Sea safety etc. were displayed and the different leaflets and booklets developed by NETFISH on hygienic handling and fishery conservation aspects were kept in the stall for the needy. The delegates, students and researchers from India and abroad who participated in the Conference had visited the stalls at the Marine Science Expo. A few of them showed keen enthusiasm in gathering information about the activities of MPEDA & NETFISH.

✱ **NFDB Fish farmers day and Fish festival:**

NETFISH participated in the 'Fish farmers day and Fish festival' organized by the NFDB, Hyderabad on 9th & 10th July 2018 at Visakhapatnam. The stall displayed posters depicting state wise extension activities and various leaflets. The awareness videos of NETFISH were also played in the stall. Aqua farmers, fishermen and college students had visited the stall and collected the leaflets. In addition, the NETFISH trained Fisher women of Small scale fish producer's society of Mangamaripeta was allotted a free stall by NFDB. The stall was decorated by NETFISH Model dry fish unit poster and fisherwomen sold their packed dry fish products and ready to eat fishery products. Joint Secretary along with the other officers visited the stall and enquired about the activity. CEO NFDB appraised the idea of drying the fish on racks. NETFISH provided aprons, cap and transportation to the trainees. The trainees are satisfied with the returns they earned in 2 days.



✱ **Karavali Utsav 2018:** NETFISH had participated in the Karavali Utsav held from 8-10 December 2018 at Karwar. With the support of NETFISH trained SHG named the Gulabi Swasahaya Sangh which is registered under SCODWES, a stall was set up displaying and selling dry fish and value added fishery products prepared and packed by the group members. Prawns chutney



powder, Croaker chutney powder, Anchovy chutney powder, Mackerel chutney powder and Dried Shark Moles were the main items kept for sale. All the products were packed in plastic packs containing SCODWES and NETFISH logos. The stall pulled a good crowd and many of them had purchased the products. Most of them demanded to make available the products regularly through a permanent stall. NETFISH leaflets were



distributed among the public and posters displaying various activities of NETFISH as well as awareness movies in Hindi and Kannada were played in the stall. The SHG members could earn good income during the 2 days which had encouraged them to continue preparing and selling the products.

- \* **Bengal Fish Fest 2019:** NETFISH associated with MPEDA in participating in the Bengal Fish Fest held from 11th to 13th January 2019 at Kolkata. The stall was decorated with posters of fish, prawn, sea food products etc. as well as the various publications of MPEDA and NETFISH. Documentary and animation films on aquaculture, fish quality and conservation were also shown in the stall. Officials of Govt. and Non Govt. organizations, exporters, general public, students & teachers of schools and colleges etc. visited the stall. The requirement and queries of the visitors regarding various aspects of exports, fishing and aquaculture etc. were fulfilled.



## MASS COMMUNICATIONS

- \* **Street Plays:** To generate awareness on various aspects of capture fisheries, conservation and export among mass of fishermen, fish handling workers, harbour workers, net mending workers and costal population including men, women and children, 95 numbers of street plays were conducted in fishing hamlets in Kerala and Maharashtra. The street play group members are seasoned drama actors who regularly perform in theatre arts and plays. The various topics covered in the programme were juvenile fishing, use of destructive fishing methods, use of big nets and high speed engines in fishing boats, abuse of chemicals for fish preservation, coastal pollution including use of sand beaches as toilet, marine pollution and Hygienic handling. These topics were scripted as a story line and presented before the audience in attractive manner. There was good response to street plays in all the places. The



women and children also came out and watched the street plays in many places. NETFISH leaflets were also distributed among the spectators during the programme.

✳ **Installation of Signboards:** To provide information or to raise awareness on hygienic handling and fish conservation, sign boards were installed at work places of fishermen and fishery stakeholders, especially at fishing harbours. The main purpose of sign board is to communicate a message to the fishery stakeholders, to assist them with decision-making based on the information provided. During the year 2018-19, huge awareness sign boards were installed by NETFISH at Munakkadavu, Chavakkad, Beypore, Azheekod, Munambam, Neendakara, Azheekal-Kayamkulam, Thottappally, Thoppumpady harbours to reach the masses. The Sign boards displayed information on the Minimum Legal Size (M.L.S) notified by Govt. of Kerala for 58 fishery items as well as the various do's & don'ts in fishing harbours and fishing boats. They were placed in marked locations at the harbours so that nobody fails to notice it. The fishers and stakeholders were found keenly observing the Sign boards and many of them appreciated NETFISH for its initiative.



✱ **Mike Announcements:** On noticing the landings of under sized Yellow fin Tunas, a 3 days mass awareness programme was organized by NETFISH at Pudimadaka, Jalarepeta Fish landing centers, nearby villages and Visakhapatnam fishing harbour. A vehicle decorated with banners showing the preferred gears for sustainable Tuna fishing, such as Hook and line and nets with bigger mesh size, was used to bring out wide publicity among the fishers. The price variation relative to size of the fish was also illustrated through pictures in the banner. Microphone and speakers were also set on the vehicle and announcements were done to bring awareness among the mechanized and motorized fishing vessel owners and crew to avoid catching of baby tunas. Handouts were also distributed during the programme. Mass awareness was generated among the stakeholders not to catch the under sized Yellow Fin Tuna as it is the future resource and also cause economic loss to the fishermen. The discussions made with stakeholders during the awareness programmes have helped to bring down the landings of baby tunas at landing centers.



## DOOR TO DOOR CAMPAIGN

Spreading NETFISH's awareness messages on sustainable fishing practices and hygienic handling of fishes all along the fishermen households was the key objective of the Door to door campaigns organized during the year. Keelamanakkudy, Colachel and Kadiyapattinam fishing villages in Kanyakumari district of Tamil Nadu and Chellanam, Azheekkal-Kayamkulam, Thottappally, Thoppumpady, Pallippuram and Cherai villages in Kerala were the areas where the door to door programmes were conducted this year. Awareness on the importance of conservation of critical ecosystem like coral reef and mangroves was disseminated among fishers through the drive. In Tamil Nadu, a team consisting of State Coordinator, member NGO, church officials, fishermen leaders and student volunteers had involved in the programme and they split in to different groups, with 4-5 members in each group and spread apart in different directions of the villages



covering every fishermen home in their path and spreading the awareness messages. About 2000 households were visited and bit notices in vernacular languages, regarding importance of fish quality management, conservation of juvenile fishing, minimum legal size and MPEDA subsidy schemes were issued to fisher folk households in the villages. The villagers warmly greeted our volunteer team and also clarified with us their doubts and grievances regarding sustainable fishing, hygienic handling and conservation of coastal ecosystems. Though the fishermen were met during their net-mending, boat repairing activities as well as recreational activities, their response was overwhelming. They understood the need of sustainable fishing for constant supply of sea food material and the importance of hygienic handling for better export market oriented revenue, thus attaining the objectives of the programme.



## DISTRIBUTION OF FISHERMEN AID MATERIALS

NETFISH has been preaching the fishers to follow hygienic standards while handling fish and ice and to follow sustainable fishing methods. Because of the emotional difficulty in changing age old practices added with lack of proper facilities, the stakeholders refrain from observing many of the better management practices. As an encouragement, the fishers were provided with some of the aid materials for improving their work conditions, thus slowly making them to practice its usage. This year the following aid were provided free of cost by NETFISH for the improvement of hygienic fish handling and fishery conservation.



\* In TamilNadu 7 nos. of 5Hp electric pumps along with control panel were supplied for improving the hygiene at harbours through regular cleaning. Three pumps for Nagapattinam harbour, 2 pumps for Karaikal harbour and 2 pumps for Pazhaiyar Fishing harbours were purchased and handed over to the respective harbour management societies who are looking after the operation and maintenance of the harbour. NETFISH had supplied only pumps and control panels and the other accessories such as pipes, wires and fittings were sponsored by the management societies.



\* In order to popularize the use of square mesh cod ends in trawl nets among fishers and to promote sustainable fishing, 29 square mesh cod ends were supplied to the selected boat owners at Sakthikulangara, Kayamkulam, Thottappally & Thoppumpady harbours in Kerala, utilizing the fishermen aid programme fund of NETFISH. The square mesh cod ends provided were of 35 mm mesh size, 2 mm twine thickness and 7 meters length.



\* Also, 160 nos. of life jackets were supplied to fishing vessels operated from Munakkakadavu fishing harbour, Thrissur District of Kerala, as this year NETFISH had given more emphasis to sea safety.



\* In Karnataka & Goa, 71 numbers of insulated fish boxes (MPEDA approved model) were supplied to the fishermen having traditional crafts/small outboard engine crafts. The insulated boxes were supplied anticipating the improvement in fish quality through better preservation and to encourage the fishers to buy more insulated boxes by themselves.



\* In West Bengal, 73 numbers of life buoys were provided to fishing boats at South 24 Parganas & Purba Medinipur to popularize its use among the fishers. Also, 30 numbers of insulated fish boxes (70 L capacity) were supplied to 30 traditional fishing boats in South 24 Parganas. On 14th June'18 NETFISH has distributed PVC shovels and Plastic baskets to the skippers/ driver of the mechanized fishing vessels at Deshapran Fishing Harbour.

- ✧ The walls of the auction halls as well as the compound wall of the Paradeep fishing harbour in Odisha were painted, displaying NETFISH awareness messages. In addition, 184 numbers of PVC shovels were provided to Trawlers, gillnetters, fishing boats and fishermen societies in Paradeep Fishing Harbour, Balaramgadi fish landing centre and Bahabalapur fishing jety for the improvement of raw material quality.
- ✧ In Sassoon dock harbour of Maharashtra NETFISH had distributed 530 numbers of plastic shovels to replace the old and rusted iron shovels.

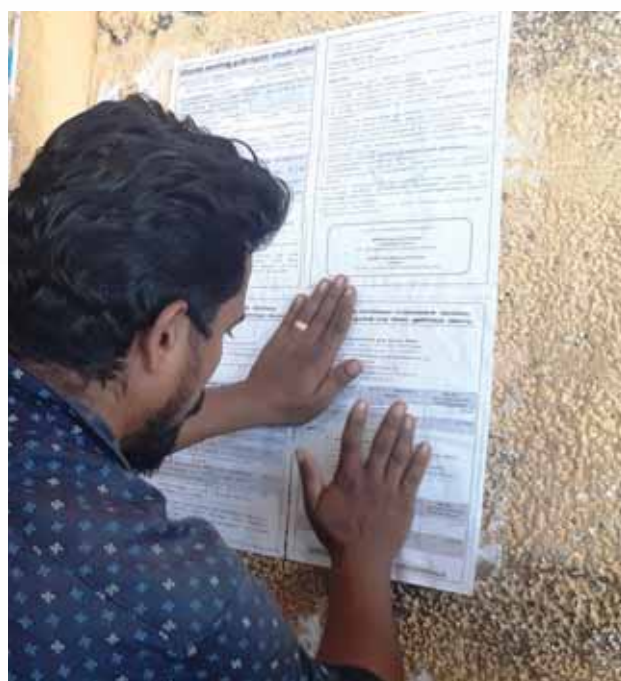
## PMKVY PROGRAMME

This year the State Coordinators of NETFISH joined with RDs and SRDs of MPEDA concerned, for organizing Skill development programme on RPL under PMKVY for Seafood processing workers and conducted 78 numbers of training programmes in various seafood processing plants. Each training programme was of 3 days duration. First and second days will be utilized for addressing the skill gaps of the candidates and third day for assessment.



## POPULARIZATION OF MPEDA SCHEMES

A total of 16 awareness programmes were conducted for the popularization of new subsidy schemes of MPEDA for the capture fisheries sector. The beneficiaries were given awareness about assistance for installation of Satellite VMS and its utilities in connection with IUU fishing and for compliance with Catch Certificate regulation. The relevance of the assistance for incorporating



By-catch Reduction Devices (BRDs), Square mesh cod ends etc. in fishing nets was also explained. Notice describing the schemes, terms and conditions, etc. were prepared and distributed.

## ASSOCIATION WITH OTHER DEPARTMENTS/INSTITUTES

1. On 24th August'18, State Coordinator attended the seminar on "Use of square mesh bag net bottom trawling" organized as part of 'Boat Owners Meet 2018' jointly organized by Digha Fishermen and Fish Traders Association and TUFROPES Co. at Digha Mohana. Members of DFFTA, NGO member, representative of TUFROPES Co. and about 100 boat owners had participated in the meet. State Coordinator gave a presentation and discussed on the present status of marine fisheries, impact of bottom trawling, benefits of square mesh nets and new subsidy schemes of MPEDA. Representative of TUFROPES Co. demonstrated the 35 mm and 30 mm square mesh, other nets and ropes used in marine fisheries etc. Two boat owners have shown their willingness to demonstrate the square mesh trawl nets in their boats.
2. On 4th December'18 State Coordinator attended a seminar at Ramnagar College, Purba Medinipur. The programme was jointly organized by Rural Eco Development Centre and Dept. of Zoology, Ramnagar College. The programme was inaugurated by Dr. A. Manna,

Principal, Ramnagar College. About 100 students of Dept. of Zoology & Fishery and faculties of both the Dept. were attended the programme. Dr. Kunal Chakraborty, Scientist, INCOIS, Hyderabad delivered his talk on “How Data & Technology Makes our Life Easier at Sea”. State Coordinator addressed to the students on “The Best Management Practices in Aquaculture and Marine fisheries”.



3. State Coordinator attended two mass awareness programmes on hygienic dry fish organized by Asst. Director of Fisheries (Marine) at Junput and Jaldah khuti, Purba Medinipur on 27th and 29th November'18 respectively. About 450 fishers from Junput khuti and Dakshin Kadua khuti attended the programme at Junput and 400 fishers from Jaldah khuti and Ma Basuli khuti attended the programme at Jaldah, Purba Medinipur. State Coordinator delivered a talk on hygienic dry fish practices and its development in India and also highlighted on abuse of harmful chemicals in dry fish etc.
4. On 9th January'19 State Coordinator attended an awareness programme on “Marine Bio-diversity and Fishing Ban” organized by Dept. of Fisheries, Govt. of West Bengal at Dadanpatrabar, Purba Medinipur. About 120 fishers and State Fisheries officers were present in the programme. State Coordinator delivered a talk on Marine Bio-diversity, Safety at sea, Fishing Ban and MPEDA's subsidy scheme for capture fisheries sector.
5. On 22nd January'19 State Coordinator attended an awareness programme on “Safety at Sea and Marine Communication” organized by Dept. of Fisheries, Govt. of West Bengal at Dadanpatrabar, Purba Medinipur. About 120 fishers and State Fisheries officers had attended the programme. State Coordinator delivered a talk on Safety at Sea, Communication devices, distress signs and MPEDA's subsidy scheme for capture fisheries sector.
6. On 6th February'19 the State Coordinator attended two awareness programme on “Dry Fish” organized by Dept. of Fisheries, Govt. of West Bengal at Junput and Bhogpur, Purba Medinipur respectively. About 120 fishers in the concerned area and State Fisheries officers were present in the programme. State Coordinator delivered a talk on Dry fish development, various techniques of fish drying, abuse of harmful chemicals etc.
7. NETFISH SCO participated in the Fishery Management Council (F.M.C.) awareness programmes of State Fisheries Department held in fish landing centers at Manathala and Kaipamangalam in Thrissur district on 16.11.2018. In both the places SCO took awareness classes on FMC and Sea safety.
8. The State Coordinator NETFISH associated with BOBP Project for the improvement of landing of good quality Tuna and its supply chain. On 22.06.2018, the SCO coordinated with the officials of BOBP in arranging a meeting at the Pudimadaka landing centre with the 20 boat owners to discuss about Tuna landings and its supply and marketing system. On 09.11.2018, The SCO attended the meetings arranged by BOPB with the Tuna boat owners and Tuna fish exporters at Office of Dept of Fisheries, Achuthapuram to discuss on direct purchase of catch from the boat owners.





9. On 28th June 2018 the State Coordinator, Tamil Nadu North attended the programmes organized by the Fisheries Department & IFAD at Samiyarpettai and Parangipettai where he delivered invited talk on 'marine fisheries management and hygiene'.
10. On 18th August 2018, the State Coordinator attended the meeting at Directorate of Fisheries, Saithapet Chennai organised by the Fisheries Department. Fishery stakeholders as well as officials from CIBA, CMFRI, FSI, ICSF, RGCA, TNFU, MSSRF and Plant-NGO were present for the meeting, regarding conducting skill development programmes in Tamil Nadu jointly with Govt/Private institutions and NGO's. To conduct the programme, registration under the Tamilnadu Skill Development Corporation (TNSDC) is necessary. The next meeting in this regard was held on 16.10.2018 under the chairmanship of Director of Fisheries, where the SCO stated that NETFISH can impart training in Marine capture fisheries for the fishermen and primary processors.
11. On 21st August 2018, the State Coordinator attended the FIMSUL Coordinator meeting at Joint Director Office, Chennai, regarding fisheries co-management and resource management plans. The SCO spoke on square mesh cod end and hygienic handling of fish in the fishing harbour.
12. The State Coordinator along with our partner NGO members (SOHES and FPO) participated in the stakeholder meeting held at Kovalam, Chennai on 3rd December 2018 to gather inputs on the Draft National Mariculture Policy (NMP). Stakeholders comprising fishermen, fish farmers, representatives from various fishermen organizations, entrepreneurs, government organizations, non- government organizations working in fisheries, the Tamil Nadu Fisheries University and the Department of Fisheries officials of both Tamil Nadu and Ponducherry participated in the consultation and discussed the draft policy.
13. NETFISH participated in the NFDB sponsored Awareness programme on Hygienic handling in fish market, organized by Fisheries Department Cuddalore on 15th & 16th February 2019 at Panpari, Devanampattinam and Manjakkuppam fish markets and the SCO had delivered lectures on hygienic fish handling.
14. With regard to the Fishery Improvement programme (FIP) of the Mandapam Flower Shrimp, the State Coordinator, Tamil Nadu South region was invited for a series of meetings. On 2nd May 2018, the SCO along with DD, MPEDA had a meeting with the representatives of ALCOM Exim, Mumbai for MSC certification of the Flower Shrimp. NETFISH activities were explained to them by the SCO. On 3rd May, the SCO attended the 1st Flower Prawn Stakeholders meeting organized by ALCOM. In the 2nd Stakeholder's meeting on 3rd August, jointly organized by


Blue Census Consultancy, Germany, CMFRI, Mandapam and ALCOM EXIM, it was decided to form a working committee for facilitating MSC certification for Flower Prawns caught and exported from the Palk Bay Region. The SCO also attended the 3rd Stakeholder's meeting held on 23rd February 2019 at CMFRI, Mandapam in this regard. NETFISH SCO was identified as one of the members of the working committee.



15. IFAD-TN State Fisheries Dept. organized fishermen awareness programmes during 28th & 29th June 2019 at Chinnamuttom, Arokyapuram and Kurumpanai where the SCO delivered invited speech on Sustainable fishing, Hygenic handling and Sea Safety.
16. On 10th October 2019, the SCO attended a meeting organized by Crab Meat Processors Association (CMPA) and CMFRI, Mandapam on Pre Assessment survey and subsequent FIP on Blue Swimming Crab Fishery of the Palk Bay of Tamil Nadu coast. The objectives were Conservation of blue crabs and formation of a FIP for the fishery.
17. SCO participated in a stakeholders meet organized by the Asst. Director of Fisheries (Grade-1), Gangolli Fishing Harbour on 06.12.2018 regarding formation of the Harbour Management Society. Stakeholders consisting of Govt. officials and members from different fisher organizations present in the meeting unanimously decided to form the Harbour Management Society in Gangolli.
18. State Coordinator along with the member NGOs Kalarang Samajik and Sanskrutik Sanstha, Alibag and Manav Vikas Sevabhavi Sanstha, Thane attended the training programme entitled "Utilization of Bombay duck for value addition and its marketing opportunities" held on 21.09.2018 at Navi Mumbai.

## IMPORTANT MEETINGS

1. EC Meetings: The Twenty Fifth Executive Committee meeting of NETFISH was held on 2nd May-2018 at Kochi, which was presided over by Dr. A. Jayathilak, IAS, Chairman MPEDA. The Twenty Sixth Executive Committee meeting of NETFISH was convened on 25th October, 2018 at MPEDA HQ, Kochi under the presidentship of the new MPEDA Chairman, Shri. K.S. Srinivas, IAS. Discussions and decisions were taken on the agenda points presented by the Chief Executive, NETFISH.
2. Annual General body Meeting: The XII AGM of NETFISH was held on 25th October, 2018 at the Conference Hall of MPEDA, Kochi. Shri. K. S. Srinivas IAS, Chairman MPEDA presided over the meeting and the CE NETFISH presented the agenda points.

3. Review Meetings: The review meeting of NETFISH State Coordinators was convened on 9th May 2018 at Kochi, where all the State Coordinators presented their activities during the year 2017-18 and outcomes achieved. Also, the plan for the new financial year was discussed in the meeting. Review meetings of member NGOs and Harbour Data Collectors were also conducted in the respective states during April-May 2018, to evaluate their performance and to discuss new plans for the betterment of efforts.
4. A meeting was convened at the Directorate of Fisheries, Govt. of Assam on 21st June 2018, to discuss about organizing various extension programmes for the benefit of the stakeholders of Assam associated with seafood industry. Discussed about the provision for the development of this sector and elaborated various extension related measures which can be implemented jointly. Regarding extension activities, the details of programmes were prepared which can be effectively conducted in Assam. DD MPEDA RD Kolkata and NETFISH State Coordinator stated our keenness to co-operate with Department of Fisheries, Assam to flourish value added arena and other activities such as Eco-friendly fishing, hygienic handling of fishes etc.  

5. The Dy. Director MPEDA RD Kolkata, State Coordinator NETFISH and Sr. Clerk MPEDA SRD Guwahati had a meeting with the Director, Dy. Director and Fisheries officer of Department of Fisheries, Nagaland on 7th December 2018 at the Fisheries Directorate office, Kohima regarding GIFT Tilapia and Seabass culture. DD MPEDA explained the necessary assistance that can be rendered by MPEDA to propagate Tilapia Farming and he requested Govt. of Nagaland to take up a demo project and send Govt. officers and prospective farmers for the trainings by MPEDA. The Director showed his interest to take up Tilapia demonstration project. On 8th December 2018, a meeting was held at the facility of an Entrepreneur in Doyang Dam Reservoir, Wokha, Nagaland and explained regarding potential of GIFT Tilapia culture and Dry fish processing. The Entrepreneur Mr. Thungpen Lotha expressed his interest to set up a Dry fish unit at his facility and also to take a project of Tilapia demonstration with the permission of Govt. of Nagaland. When he told that he is interested in value addition of fishery products with the help of women group, the State Coordinator rendered the support from NETFISH in giving necessary trainings to the fisher women for preparing value added products as well as hygienic dry fish.
6. Meetings were conducted with the Chairman of Sarjekot Machchimar Sanstha, Malvan on 21.05.2018 and Nagaradhyakshya, Vengurla Nagarpalika, Sindhudurg on 22.05.2018 to discuss about Plastic eradication project, like the Suchitwa Sagaram project in Kerala. Both of them liked the concept and assured to take up similar projects.
7. Regarding implementation of measures for the conservation of major fishery resources like Pomfret and Lobsters from Palghar and Thane districts, meetings with Assistant Commissioner of Fisheries as well as Board Members of Thane-Palghar Jilha Machimar Sangh were conducted during 21.08.2018 by the SCO and NGO. The SCO delivered a presentation highlighting NETFISH activities during last 10 years and also discussed about the need to fix the mesh size of dol nets in order to minimize indiscriminate juvenile fishing of Pomfret.



8. For the formation of a Harbour Management Committee and a registered Fishing Harbour Management Society at Vizag harbour, the State Coordinator along with the DFYWA NGO had a discussion with the State Fishery Officials and JD Fisheries on 17.10.2018 at the harbour. It was decided to conduct a workshop on formation of Society at Vizag. Further, on 08.01.2019 the SCO along with NGO had a meeting with Andhra Pradesh Boat Owner's Association President regarding society formation. He had shown interest in it and asked to discuss with other Associations for their willingness in formation of the society. Immediately, another meeting was convened on the same day with boat owners of Dolphin Association in which they were realized the need of a registered society for maintaining the fishing harbour.

## VISIT OF US DOS OFFICIALS

A team consisting of 3 members from the US Department of States (DoS) had visited India during November 2018 to verify India's Sea Turtle Conservation efforts as per Section 609 of the US Public Law, US Sea Turtle Conservation Programme. On 1st November 2018 they visited traditional aquaculture farms at Gopalpur, North 24 Parganas to oversee the activities of traditional system of harvesting of shrimp and on 2nd November'18 the team visited Deshapran Harbour. Jt. Director (Mkt), Dy. Director and other officials of MPEDA, State Fisheries officials, NETFISH SCO were accompanied with the US team. They were explained about the harvesting process of shrimps and fishes from Bay of Bengal and the prototypes of Trawl net, Dol net and Gill net were displayed in the harbour for them. They evaluated the trawler and dol netter boats and checked the gear and other accessories used. Later on, the team visited a processing plant and observed the processing facilities and production process. From 3rd to 4th November the team visited Paradip Fishing Harbour and Chilka lake near Hatabaradihi village of Khurda district in Odisha. The team inspected boats using gill nets and interacted with the fishermen and officials





on the fishing methods, mesh size, catch composition etc.

The State Coordinator NETFISH has coordinated the arrangements during the visit of the team to the harbour areas. Prior to the visit, stakeholders meetings were organized to inform on the purpose of the visit, provision of TED as mandatory for the fishing vessels going for wild catch and the concern on sea turtle conservation. The

team interacted with trawler owners and officials of MPEDA/Fisheries Department and there were fruitful discussions on the turtle conservation measures adopted in India.

## SEAFOOD INDIA STALL

MPEDA has set up its signature Stall named “Seafood India”, spanning around 1600 sq. feet area in the ground floor of its all India Head Office situated in Panampilly Nagar, Kochi, Kerala. The NETFISH is entrusted with the operation and management of the “Seafood India” stall, for which an MOU was signed between MPEDA & NETFISH on 12th February 2019. Around 600 sq.foot area of the signature stall is earmarked for the sales & display of value added marine products manufactured by different marine product exporters. A visitor to the stall is enabled with information kiosks to browse all the details about each product displayed in the stall, ranging from its production, processing, cooking and nutritional content. Apart from the products display, the area exhibits products developed by prominent fisheries research institutions such as CMFRI, CIFT and NIFPHATT etc. & brochures, pamphlets and booklets on various activities by the societies of MPEDA such as NETFISH, RGCA and NaCSA. Ready to Eat & Ready to Cook products of Shrimps, Crabs, Mussels, Squid & Fishes are available at reasonable price in the stall. The 1000 sq.foot area of the stall is meant as an exhibition area intended to inform, educate and entertain the visitors, highlighting the export aspects of value added marine products. Various activities are being carried out for the promotion of the stall.



## TRAINER'S TRAINING PROGRAMME

In May 2018, the NETFISH staff including Chief Executive, State Coordinators and Research Assistants had participated a training programme on “Sea Safety, Navigation and Use of Electronic equipment” at CIFNET, Kochi with an objective to enhance the knowledge on ‘Safety at Sea and Safe Navigation’ and to gather new information on the topic. The two days programme from 7th to 8th May 2018, covered in brief about Marine Communication Systems, Navigational equipment, Marine Signals, Rules of the road and Sea Safety equipment. The



training also included demonstrations on a few of the Marine electronic equipment and Life saving equipment and the trainees were taken for a visit to the CIFNET vessel - Prasikshani, where the Captain of the vessel explained on the functioning of various navigational facilities available in the vessel. In addition, the trainees got opportunity to visit the Simulation system established at CIFNET for providing virtual training to the students. In all, the training provided a very good exposure to the subject and equipped the NETFISH team with self-reliance to execute sea safety training for fishers.

The NETFISH team consisting of Chief Executive, State Coordinators and Research Assistants had participated in the 4 days



training programmes on Sea Food HACCP system and Good Fishing Vessel Practices (GFvP) jointly organized by MPEDA and JIFSAN from 4th to 7th Sep. at Kochi & 10th to 13th Sep. at Visakhapatnam. Apart from MPEDA & NETFISH staff, participants from various research institutes, EIA, Seafood processing units and boat owners association had attended the programme.

## MAJOR ACHIEVEMENTS 2018-19

### WEST BENGAL

- Chill killing practice is observed in mechanized fishing boat as well as in motorized boats and thus getting better rate than the previous year.
- Bamboo baskets were replaced by the plastic baskets and iron shovels were replaced by PVC shovels for handling of fish thereby minimizing contamination.
- More fishermen are wearing rubber gloves for handling of fish and ice onboard.
- The fishers are using liquid soap or detergent for cleaning boat and other accessories. Fish store and ice stores are cleaned properly in each voyage after unloading the fish. Fishermen onboard are maintaining health and hygiene after getting training from NETFISH.
- Marine turtle/ Juvenile fishes if caught live are released back to sea. Gravid crabs were released into the sea to rejuvenate the stock.
- Fishes are sorted on the cleaned ramp on the plastic sheet. Plastic baskets are used for handling of fishes. Cleaned crates & insulated fish boxes are used for transportation of fish to the auction markets as well as to the processing plant.
- Ice is transported to the harbour in covered condition and then loaded to fishing vessels by head loading or by rope net. Boats are carrying adequate quantity of ice while venturing for fishing.
- Harbour staffs are engaged for timely cleaning of harbours. Bleaching powder is used in the drainage and unsanitary areas in the FH.
- Processing and Pre-processing workers are properly washing & sanitizing their hands and foot before entering into the unit and maintaining good habits while handling fish in the processing unit.



- Fishers are using ice in the fish meant for drying. Due to intervention of NETFISH poly house at Mandarmoni has been developed with cemented base that can produce better quality products. Use of harmful chemicals and pesticide has been reduced to a great extent.
- Because of NETFISH intervention boat owners are now keeping adequate no. of Life jackets and Life buoys in their boat and the fishers are following different navigational lights and signals while on fishing.
- After attending value addition training programme the fisher women of SHG at New Jaldah, Mandermoni, Purba Medinipur and Sebika, Junput put stalls in Fish fares at Nachinda, Purba Medinipur and in the Bengal Fish Fest 2019 at Salt Lake City, Kolkata with different value added products, fish & prawn pickles and dry fish items and gained good margin in the events. SHG at New Jaldah, Mandermoni, Purba Medinipur also given their value added products to BENFISH for marketing. The fisher women of Dhobaberia SHGs are selling their VAFP to local areas/markets.

## ODISHA

- Illegal chemicals are not in use in fishery product at Paradeep.
- As an impact of attending NETFISH programmes the Trawler owners in Paradeep, Balaramgadi & Bahabalapur are requesting to increase the fishing ban period for better conservation of the resources.
- Paradeep harbour management society has appointed more staff (16 nos.) for keeping sanitation and hygiene of the auction hall and surrounding areas. NETFISH had trained these workers on proper cleaning method and cleaning schedule. The Management society also purchased 2 power washers for cleaning of auction hall. Also proper records are being maintained.
- In Paradeep fishing harbour, around 40 % of fishing vessels have started using Insulated plastic wire ropes instead of steel wire rope, by which greasing and unhygienic activity inside the jetty has reduced considerably.







- Now Trawler owners of Balaramgadi are cleaning their godown regularly by using liquid detergent to maintain good sanitary and hygienic conditions.
- In Balaramgadi LC all trucks are now carrying ice in fully covered condition.
- Damaged Warf at Bahabalapur Fish landing centre is repaired. No water is held stagnant inside the landing centre.
- All the vessels operated from Bahabalapur are cleaned regularly before and after fishing.
- The auction area at Bahabalapur is maintained hygienically.
- Chilka fishermen are now using Insulated Fish Boxes (IFB) for preservation of their catch.
- Fisher folk of Chilka are now carrying ice while going for fishing.
- After NETFISH & CDA joint training the fishers are maintaining better fish quality and getting more price compared to earlier. Fisherfolk has started own trading through fishermen co-operative society.

### **ANDHRA PRADESH**

- Twenty two motorized craft of Pudimadaka flc has installed the insulated Tuna fish boxes permanently by opening the deck of boat and thus Tuna is brought with sufficient ice.
- Boats are being cleaned at sea before arriving the harbour.
- The trawl nets cod ends are increased to 25 mm for shrimps and increased to 30-35 mm for fish to avoid by-catch
- The fishermen are aware on use of Square Mesh Cod ends and are ready to use 30 mm Square mesh cod ends initially, if readily available.
- At all harbours, 100% use of Plastic baskets is observed.
- Use of PVC shovels are observed at Kakinada and Visakhapatnam.
- Bycatch landings is completely stopped at Vizag fishing harbor by the initiation taken by all the associations and traders.

- The stake holder of Vizag fishing harbor aware on Harbour Management Society formed the 23 members list and now ready to register a society with officials of Dept Fisheries and NETFISH as members.
- The Machilipatnam fishing harbor auction hall floor was repaired with the funds available with the Association and the floor made free from water stagnations.
- The processing workers are fully aware on hand washing procedure and hygiene.
- The products of Model Dry fish unit are supplied in bulk quantity to Dept. of Fisheries, Assam thereby earning good profit by the society.
- The fisherwomen of Mangamaripeta have started participating in other State's and National exhibitions, thus becoming a model for VAF products by fisherwomen.
- In all the harbours, the net menders are now capable of fabricating Square mesh cod ends.

### **TAMILNADU NORTH**

- Fishes are segregated onboard immediately after the haul and stored with enough ice within 30 to 45 minutes.
- Fishing vessels are cleaned using bleaching power at least once in a week.
- Trawl Cod end mesh size has increased from 25 mm to 35 mm.
- Fishers have started giving special concern for Sea Turtles and Juveniles fish conservation.
- Plastic sheets are used for keeping the fish for auctioning.
- Use of ice and ice box popularized among traditional fisherfolks.
- Cleanliness has improved in most of the harbours by engaging cleaning persons by the harbour management committees. NETFISH has facilitated better cleanliness by providing 7 nos. of electric motors to the harbour management committees.
- Fishes drying are done on concrete platform or mats to avoid contamination.
- Now the fishers are aware about the sea safety equipments and its uses and how to handle distress situation.

### **TAMILNADU SOUTH**

- Knowledge gap among fishers on hygienic handling of fishes onboard was filled in many parts of the region.
- Improved awareness among fishermen about onboard cleanliness.
- Use of square mesh cod ends is observed in some boats of Muttom/Thengapattinam region.
- Discard of critical and endangered species has increased. Fishermen are interested to adopt By-catch reduction methods such as using BRDs and TEDs.
- At harbours and landing centres the fishers have started keeping fishes on plastic mats for auctioning and preserved using sufficient quantity of Ice.
- The use of PPC shovels to handle ice has improved after the distribution of plastic shovels by NETFISH. Stamping ice with foot is also reduced and crushed ice is transferred directly into boats with ice conveyors.
- Sanitary workers are employed in Chinnamuttom, Colachel & Thengapattinam harbours for better cleanliness. Dust bins are kept for the disposal of wastes.
- Harbour management committee is formed at Thengapattinam.

- Fishermen have started to wear gumboots, gloves and plastic aprons during fish handling.
- The personal hygiene aspects in the Processing plants and PPCs have highly improved.
- Hygienic handling of dry fishes has improved in dryfish centres at Kovalam, Kanyakumari.
- Awareness about use of Vessel Monitoring System, Life buoys, Life Jackets has increased.

### **KERALA SOUTH**

- Fishers are adapted with better hygienic management practices onboard.
- Time gap between fish sorting and icing onboard has minimized.
- More fishing vessels have started cleaning the vessel before and after fishing.
- Fishermen and boat owners have welcomed the use of square mesh code ends in trawl boats. By NETFISH onboard programmes using 35 mm square mesh code ends at Thoppumpady, the fishers felt the difference in using square mesh code end. Sorting and grading has become easy due to less mud and sand with the catch.
- More conveyor crushes are operated in export auction hall at Thoppumpady and ice blocks are directly loaded to the conveyor ice crusher and from the crusher to the boats by avoiding contamination.
- Most of the harbour workers are keeping good personnel hygiene and in some harbours they wear uniforms, gloves and gumboots while handling fish.

### **KERALA NORTH**

- Onboard handling practices could be improved in many boats. NETFISH provided plastic baskets, gloves etc. during the training programmes.
- Onboard cleanliness further improved in many boats.
- Awareness and application of conservation measures such as square mesh cod ends has enhanced.
- At Chettuva harbour workers union brought out new trolleys similar to the one which NETFISH provided for fish and ice transportation within the harbour.



- Reduced the use of iron shovels by providing fibre shovels to workers in selected harbours for ice handling. Ice transportation is in covered condition/in insulated vehicles mostly.
- Encouraged Munambam harbour management society to appoint three more contract labors to enhance harbour cleanliness. Due to this, the cleanliness improved tremendously. In other harbours also, the cleanliness levels has improved. Non biodegradable waste dumping bins were placed in Chettuva FH.
- At Munambam FH new rest room for women workers is under construction.
- Workers were encouraged to use rubber gloves and shoes by providing those items by NETFISH at selected places. The situation has improved considerably in the last one year.
- Sensitized the fishermen and boat owners on the need of having essential life saving equipments onboard and the boat owners have started to buy life jackets and life buoys.
- Two more pre processing centers in Munambam region have started using uniforms due to NETFISH intervention. The personal hygiene and cleanliness is improved in all PPCs in the region where NETFISH conducted training classes.

### **KARNATAKA & GOA**

- On-board handling practices have improved.
- Now some of the boats have started to use bleaching powder for sanitizing fish contact surfaces.
- A few fishers have changed the mesh size from 15/20 mm to 25/ 30 mm.
- Now majority are using crates for keeping the fish for auctioning.
- Use of ice and ice box popularized among traditional fisherfolks.
- Harbour cleaning is done regularly in some of the harbours.
- Fish drying is done on concrete platforms or mats.



- After attending the NETFISH training fishers realize the importance of life buoys and life jackets.

**MAHARASHTRA**

- Onboard handling and cleanliness has improved.
- It is observed that mesh size increased in Harne, Ratnagiri and Sassoon dock area. Many fishers started using 40 mm mesh size fishing nets.
- Fishers are releasing back juvenile lobsters to sea.
- More fishers have started to keep fish on plastic sheets at harbours.
- Putting ice on floor has reduced.
- Improvements in personal hygiene of fishers.
- Fishers in Palghar, Sindhudurg districts are using raised bamboo structures for fish drying. They encircle fish drying area with nets to avoid entry of birds and pets.

**GUJARAT**

- Handling of fishes onboard has improved. Ice is being used in 1:1 ratio and chill killing practices are observed.
- Fishing vessels are cleaned before and after fishing.
- Some of boat owners have increased the mesh size to avoid juvenile fishing.
- Cleaned crates & insulated fish boxes are used for transportation of fish to the auction markets as well as to the processing plant.
- Improved ice handling is observed at Veraval & Vanakbara fishing harbours.



## Member NGOs of NETFISH for the Year 2018-19

- 1) The Science Association of Bengal (SAB), Barisha P.O, Kolkata, West Bengal.
- 2) Sarboday Sangha (SS), P.O Ajoya, Khejuri, Medinipur (East), West Bengal.
- 3) Subha Rashmi Mahila Seva Samiti (SRMSS), Balasore District, Odisha.
- 4) Rangalata Peoples Rural Development Society (RPRDS), Bentapur, Puri District, Odisha.
- 5) District Fishermen Youth Welfare Association (DFYWA), Vivekananda Bhavan, Vishakapatnam, Andhra Pradesh.
- 6) Socio Economic Alternatives Research Resource Community for Humanity (SEARCH), Guntur District, Andhra Pradesh.
- 7) Village Resource Centre of MSSRF, Kurusady, Nagercoil, Kanyakumari District, Tamil Nadu.
- 8) Village Resource Centre of MSSRF, Thangachimadam, Ramanathapuram District, Tamil Nadu.
- 9) Chevaliar Roshe Society (CRS), Derose Centre, Polpettai, Thoothukudi, Tamil Nadu.
- 10) Organization for Marine Conservation, Awareness and Research (OMCAR Foundation), Pattukottai (Post), Thanjavur (Dist) Tamil Nadu- 614601.
- 11) GAIA International Organization (GIO), First Main Road, Kamaraj Nager, Thiruvanmiyur, Chennai, Tamil Nadu.
- 12) S.O.H.E.S., Pillayar Kovil Street, Kanchipuram District, Tamil Nadu.
- 13) Fisheries Professionals Organization (FPO), Chennai, Tamil Nadu.
- 14) Fish For All - Research and Training Centre, M.S.Swaminathan Research Foundation (MSSRF), Poombuhar-PO, Nagapattinam-Dt, Tamil Nadu.
- 15) FDWC, Kollam, Kerala.
- 16) Sahyadri Community Development & Women Empowerment Society (SCODWES), Savinilaya Building, Maratikoppa Main Road, Sirsi, Karnataka.
- 17) Coastal And Rural Empowerment Society (CARES), Ranson Villa, Perlaguri Near Padavinangadi, Kavoor Post, Mangalore - 575 015, Karnataka.
- 18) Manav Vikas Sevabhavi (MVS), Chandranagar, Thane District, Maharashtra.
- 19) Nagrik Bahu Udeshiya Seva Pratistan (NBUSP), Sindhudurg, Maharashtra.
- 20) Jan Shikshan Sanstha (JSS), Raigad, Maharashtra.
- 21) Brackish Water Research Centre (BWRC), Kasba Mohalla, Mougul Street, Surat District, Gujarat.
- 22) Shri. B. A. Yadav Education & Rural Development Foundation Trust (BAYERDFT), Hatina, Junagadh, Veraval, Gujarat.
- 23) Chamunda Vikas Trust (CVT), Bhalpara Main Raod, Veraval-362268, Gujarat.
- 24) Shivam Education & Charitable Trust (SECT), Pipaliya Nagar, MadhiRaod, Junagadh, Gujarat.

## AUDIT REPORTS FOR THE YEAR 2018-19

### **ROSHAN THOMAS & Co.** **CHARTERED ACCOUNTANTS**

39/2402 1st Floor  
Srivari Complex, M.B Menon Road  
Kochi 682016 Kerala



www.rtnco.in

PARTNER • ROSHAN THOMAS, FCA, DISA(ICA) • SHARON LISS AUGUSTINE, B.com, FCA, DISA(ICA)

### INDEPENDENT AUDITOR'S REPORT

To  
The Members  
NETWORK FOR FISH QUALITY MANAGEMENT AND SUSTAINABLE FISHING

#### **Opinion**

We have audited the attached Balance Sheet of NETWORK FOR FISH QUALITY MANAGEMENT AND SUSTAINABLE FISHING as at March 31, 2019 also the Income and Expenditure Account for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion the accompanying financial statement give a true and fair view of the financial position of the entity as at March 31, 2019 and of its financial performance for the year then ended in accordance with Accounting Standards issued by the Institute of Chartered Accountants of India.

#### **Basis for opinion**

We conducted our audit in accordance with the Standards of Auditing (SAs) issued by ICAI, Our responsibilities under those standards are further described in the Auditors Responsibilities for the Audit of Financial Statements section of our report. We are independent of the entity in accordance with the Code of Ethics issued by ICAI and we have fulfilled our other ethical responsibilities in accordance with the code of ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### **Key Audit Matters**

Key audit matters are those matters that in our professional judgement were of most significance in our audit of the financial statement of the current period. These matters were addressed in the context of our audit of the financial statement as whole and in forming our opinion thereon and we do not provide a separate opinion on these matters. We have determined that there are no key audit matters to communicate in our report



### **Responsibilities of Management for the Financial Statements**

Management is responsible for the preparation of these financial statements that gives a true and fair presentation of the financial statement in accordance with the aforesaid Accounting Standards and for such internal control as management determines is necessary to enable the preparation of financial statement that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the management is responsible for assessing the company's ability to continue as a going concern, disclosing as applicable, matters relating to going concern, and using the going concern basis of accounting, unless the management either intends to liquidate the entity or cease operation or has no realistic alternative but to do so.

### **Auditor's Responsibility for the Financial Statements**

Our objective is to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement if individually, or in the aggregate they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements. As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that





a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.

- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit finding including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

Place : Kochi  
Date : 02-09-2019  
UDIN : 19228912AAAABT9435

For ROSHAN THOMAS & Co  
CHARTERED ACCOUNTANTS  
FRN - 013611S

*Roshan*

CA. ROSHAN THOMAS, FCA, DISA (ICA)  
Membership No: 228912



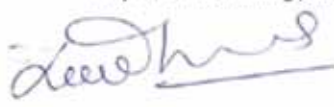
**NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH)  
KOCHI ( REG.NO.ER 509/06)**

**AUDITED BALANCE SHEET AS AT 31-03-2019**

(In Rs.Ps)

| LIABILITIES   | Sch | As on 31.03.19      | As on 31.03.18      |
|---|-----|---------------------|---------------------|
| <b>CAPITAL FUND</b>   |     |                     |                     |
| Opening balance   |     | 54 08 824.82        | 33 55 673.69        |
| Add: Fund received from MPEDA during the year               |     | 2 00 00 000.00      | 2 00 00 000.00      |
| Less: Excess of Expenditure over income for the year        |     | -2 19 72 096.45     | -1 79 46 848.90     |
|   |     | <b>34 36 728.37</b> | <b>54 08 824.79</b> |
| <b>UNDP PROJECT FUND</b>                                    |     |                     |                     |
| UNDP Fund received from MPEDA                               |     | 1 61 75 000.00      | 1 61 75 000.00      |
| Less: Project Advance                                       |     | .00                 | .00                 |
| Add: Project Expense Payable                                |     | - 10 95 395.45      | - 10 96 044.45      |
| Less: Amount utilised towards Mangrove Crab Project, Mumbai |     | -1 50 79 604.55     | -1 50 78 955.55     |
|   |     | .00                 | .00                 |
| <b>TOTAL</b>  |     | <b>34 36 728.37</b> | <b>54 08 824.79</b> |
| <b>ASSETS</b>   |     |                     |                     |
| <b>FIXED ASSETS</b>   |     |                     |                     |
| Opening WDV   | 1   | 10 18 026.97        | 11 24 527.97        |
| Add : Additions made during the year                        |     | 5 96 856.00         |                     |
| Less: Depreciation for the year                             |     | 2 58 022.00         | - 1 06 501.00       |
| Closing WDV   |     | 13 56 860.97        | 10 18 026.97        |
| <b>CURRENT ASSETS, LOANS AND ADVANCES</b>                   |     |                     |                     |
| <b>CASH &amp; BANK BALANCE</b>                              |     |                     |                     |
| Cash in hand  |     | --                  | --                  |
| Balance with banks  | 2   | 26 46 325.85        | 52 27 063.30        |
| <b>LOANS &amp; ADVANCES</b>                                 |     |                     |                     |
| Advance to Staff  |     | 14 521.00           | .00                 |
| Advance to Supplier   |     | .00                 | 4 56 340.00         |
| Salary & TA Claim Receivable From MPEDA                     |     | 20 27 990.00        | 12 31 987.00        |
|   |     | <b>46 88 836.85</b> | <b>69 15 390.30</b> |
| <b>CURRENT LIABILITIES AND PROVISIONS</b>                   |     |                     |                     |
| <b>OTHER LIABILITIES &amp; PROVISIONS</b>                   |     |                     |                     |
| EMD Fish Nutricart Kiosk                                    |     | 25 000.00           |                     |
| Expenses Payable  | 3   | 2 00 660.00         | 78 186.00           |
| Salary Payable  | 4   | 12 76 114.00        | 12 11 372.00        |
| Sundry Crediters payable                                    |     | .00                 | 1 27 190.00         |
| MangroveCrab Project Payable                                |     | 10 95 395.45        | 10 96 044.45        |
| Audit Fee Payable   |     | 11 800.00           | 11 800.00           |
|   |     | <b>26 08 969.45</b> | <b>25 24 592.45</b> |
| <b>NET CURRENT ASSETS</b>                                   |     | <b>20 79 867.40</b> | <b>43 90 797.85</b> |
| <b>TOTAL</b>  |     | <b>34 36 728.37</b> | <b>54 08 824.82</b> |

Subject to notes forming part of accounts and our report of even date

  
(Chief Executive Officer)

**Dr. Joice V. Thomas**  
Chief Executive  
NETFISH-MPEDA  
Kopadam (P. O.)  
504, Kerala

  
(Treasurer)

वि. विनोद  
**V. VINOD**  
सहायक निदेशक  
Assistant Director

  
(Secretary)

बी. श्रीकृष्ण / **B. BREEKUMAR**  
सचिव / Secretary  
समुद्री उत्पाद निर्यात विकास प्राधिकरण  
The Marine Products Export Development Authority  
संविधान एवं उद्योग विभाग  
Ministry of Commerce & Industry  
भारत सरकार / Govt. of India

For **ROSHAN THOMAS & Co**  
CHARTERED ACCOUNTANTS  
FRN - 013611S

  
CA. ROSHAN THOMAS, FCA, DISA (CA)  
Member since 1982

Date : 02-09-2019  
UDIN : 19228912AAAABT9435



**NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH)**  
**KOCHI ( REG.NO.ER 509/06)**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2019**

(In Rs.Ps)

|  |   | <b>For the year ended<br/>31-3-2019</b> | <b>For the year ended<br/>31-3-2018</b> |
|--|---|---|---|
| <b>INCOME</b>                            |   |   |   |
| Fund Received from NFDB                  |   | 16 32 608.00                            | 2 36 000.00                             |
| Fund Received From NFDB (MLS Workshop)   |   |   | 1 00 000.00                             |
| Fish Kiosk Rent                          |   | 70 000.00                               |   |
| <b>Miscellaneous Income</b>              |   |   |   |
| Application Fee                          |   | 500.00                                  |   |
| Membership Fee                           |   | .00                                     | 500.00                                  |
| Honorarium Received                      |   | 2 000.00                                |   |
| Training Fee                             |   | 1 400.00                                | 14 450.00                               |
| Renewal Fee                              |   | .00                                     | 400.00                                  |
|  |   | 3 900.00                                | 15 350.00                               |
| <b>TOTAL</b>                             |   | <b>17 06 508.00</b>                     | <b>3 51 350.00</b>                      |
| <b>EXPENDITURE</b>                       |   |   |   |
| <b>Extension Activities</b>              | 5 | 1 34 18 268.00                          | 97 94 893.00                            |
| Employee Cost                            | 6 |   |   |
| Salary - Chief Executive                 |   | 9 32 898.00                             | 7 63 044.00                             |
| Salary - State Co-ordinators             |   | 59 93 783.00                            | 48 49 536.00                            |
| Salary - Research Assistant              |   | 8 62 239.00                             | 6 90 132.00                             |
| Salary - Staff                           |   | 5 31 462.00                             | 3 85 419.00                             |
| Employer Contribution to PF              |   | 3 55 548.00                             | 3 52 027.00                             |
|  |   | 86 75 930.00                            | 70 40 158.00                            |
| <b>Administrative Expenses</b>           | 7 | 13 26 384.45                            | 13 56 646.90                            |
| Depreciation                             | 1 | 2 58 022.00                             | 1 06 501.00                             |
| <b>TOTAL</b>                             |   | <b>2 36 78 604.45</b>                   | <b>1 82 98 198.90</b>                   |
| <b>Excess of Expenditure over Income</b> |   | <b>-2 19 72 096.45</b>                  | <b>-1 79 46 848.90</b>                  |

Subject to notes forming part of accounts and our report of even date

  
(Chief Executive Officer)

  
(Treasurer)

  
(Secretary)

For **ROSHAN THOMAS & Co**  
CHARTERED ACCOUNTANTS  
FRN - 013611S

  
CA. ROSHAN THOMAS, FCA, DISA (ICA)  
(Auditor)

**Dr. Joice V. Thomas**  
Chief Executive  
NETFISH-MPEDA  
Vallarpadam (P. O.)  
Kochi-682 504, Kerala

डॉ. विनोद  
V. VINOD  
महासक निदेशक  
Assistant Director

डॉ. श्रीकुमार / B. SREEKUMAR  
सचिव / Secretary  
मत्स्यी उत्पाद निर्यात विकास प्राधिकरण  
The Marine Products Export Development Authority  
पारिषद एवं प्रशासन विभाग  
Ministry of Commerce & Industry  
भारत सरकार / Govt. of India  
कोची / Kochi-682 036

Date : 02-09-2019  
UDIN : 19228912AAAA8T9435



**NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH), KOCHI**  
REG. NO. ER 509/06

**RECEIPTS & PAYMENT ACCOUNT FOR THE YEAR ENDED 31.03.2019**

| Receipts  | (Rs.)                 | Payments   | (Rs.)                 |
|---|-----------------------|--|-----------------------|
| Opening balance - 01.04.2018                              |                       | Payments for Extension Activities                          |                       |
| Cash  |                       | Training Programmes  | 1,08,14,598.00        |
| Bank  | 52,27,063.30          | Publicity & Literature                                     | 54,566.00             |
| Funds received from MPEDA                                 | 2,00,00,000.00        | Fishermen Aid Programme                                    | 14,57,964.00          |
| Funds received from UNDP                                  | -                     | Travelling For Extension Training Staff                    | 6,61,943.00           |
| Other Income  | 17,06,508.00          | Project  | 4,29,197.00           |
| Salary, TA to Technical and Field Staff paid ( MPEDA a/c) | 74,46,864.00          | UNDP Project (Bank Charges)                                | 649.00                |
|   |                       | Payment to Employees                                       | 86,11,188.00          |
|   |                       | "Salary, TA to Technical and Field Staff paid (MPEDA a/c)" | 82,42,867.00          |
|   |                       | Establishment & Other Items                                | 8,64,281.45           |
|   |                       | Fixed Assets Purchased                                     | 5,96,856.00           |
|   |                       | Advance to Supplier  | -                     |
|   |                       | Closing balance - 31.03.2019                               |                       |
|   |                       | Cash in hand   | 26,46,325.85          |
|   |                       | Balance with banks   |                       |
|   | <b>3,43,80,435.30</b> |  | <b>3,43,80,435.30</b> |

Subject to notes forming part of accounts and our report of even date



(Chief Executive Officer)

**Dr. Joice V. Thomas**  
Chief Executive  
NETFISH - MPEDA  
Vallarpadam (P. O.)  
Kochi - 682 504, Kerala



**Mr. Vinod**  
सहायक निदेशक  
Assistant Director



**श्री. श्रीरुनी / B. SREERUNIAS**  
सहायक निदेशक / Secretary  
The Marine Products Export Development Authority  
Ministry of Commerce & Industry  
Kerala

For **ROSHAN THOMAS & Co**  
CHARTERED ACCOUNTANTS  
FRN - 016374



CA ROSHAN THOMAS & Co. (PVT) LTD.  
(Auditor)

Date : 02-06-2019  
UDIN : 19326912AMABT91435



## I. Significant Accounting Policies

### a. Basis of Accounting

Accounts are prepared on accrual basis of accounting.

### b. Capital Fund

Fund received from MPEDA (author/founder of the society) are credited to capital fund. Excess of Income over Expenditure/ (Excess of Expenditure over Income) for the year is also added / (deducted) to/from the Capital Fund.

### c. Fixed Assets

Fixed assets are stated at cost less depreciation.

### d. Depreciation

Depreciation is provided as per the rates prescribed under the Income Tax Act 1961.50% of the normal depreciation has been charged in case of assets acquired after 30th September of the year. With effect from 01.04.2017 maximum rate of depreciation under Income tax Act has been limited to 40%. The depreciation rate of the trust has been revised accordingly.

## II. Notes to Account

a. NETFISH is a society registered under the Travancore-Cochin Literary, Scientific & Charitable Societies Registration Act, 1955 and the income of the society is exempted under section 12AA of the Income Tax Act, 1962 vide order of the Commissioner of Income Tax Kochi dtd 21.07.2008.

b. During the year 2017-18, an amount of Rs. 2,00,00,000 has been received from MPEDA (Author/founder of the society) and the same has been credited to Capital fund.

c. The details of UNDP Fund utilization is as under

| Particulars                   | As on<br>31.03.2018 | During<br>the Year | As on<br>31.03.2019 |
|-------------------------------|---------------------|--------------------|---------------------|
| UNDP Fund received from MPEDA | 1,61,75,000.00      | 0                  | 1,61,75,000.00      |
| Projected Advance             | 0                   | 0                  | 0                   |
| Project Expense Payable       | 0                   | 0                  | 0                   |
| Amount utilized Managrove     | -1,50,78,955.55     | -649.00            | -1,50,79,604.44     |
| Balance Fund in Hand          |                     | 10,95,395.45       |                     |

The Magrove Crab Project, Mumbai conducted on behalf of UNDP has been completed during the year. Balance amount of Rs 10,95,395.45 is refundable to UNDP. The same has been transferred and shown under Current liabilities.

- d. During the year Rs 16.32 lakhs was received from NFDB for “Square Mesh Cod end”.
- e. Traveling Expenses incurred by State Coordinators and Field Staff in connection with extension activities are classified under “Extension Activities” (Schedule 5)
- f. Previous year figures have been regrouped wherever necessary



## NETFISH IN NEWS





## OFFICE BEARERS 2018-19



**Sri. K.S. Srinivas IAS**  
President NETFISH & Chairman, MPEDA



**Dr. Joice V. Thomas**  
Chief Executive, NETFISH  
944 613 9861 / joicevthomas@gmail.com



**Sri. Vinod V.**  
Treasurer, NETFISH  
& AD (QC), MPEDA

## STATE COORDINATORS

**Sri. Jignesh Visavadia, Gujarat**  
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**Dr. Vinoth S. Ravindran, TamilNadu South**  
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## RESEARCH ASSISTANTS

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**Smt. Neethu N.J.**  
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neethushaila23@gmail.com

## ACCOUNTS

**Smt. Remya K.R.**  
Accountant



**Smt. Swapna Cleatus**  
Accounts Assistant



**Network for Fish Quality Management & Sustainable Fishing (NETFISH)**

(A Registered Society of MPEDA, Ministry of Commerce & Industry, Govt. of India)

Vallarpadam P.O., Kochi - 682 504, Kerala, India.

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