



NETFISH-MPEDA

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NETFISH-MPEDA

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2016-17



Network for Fish Quality Management and Sustainable Fishing (NETFISH)

(A registered society of MPEDA, Ministry of Commerce & Industry, GOI)

Vallarpadam P.O., Kochi - 682 504
www.netfishmpeda.org

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Vallarpadam (P.O.), Kochi- 682 504,
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Tel. : (+91) 484 2100012

E-mail : netfish@mpeda.gov.in

Website : www.netfishmpeda.org

Compilation & Editing:

Dr. Joice V. Thomas

Dr. Afsal V. V.

Neethu N.J.

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Contents

1.	About NETFISH.....	1
2.	The President	1
3.	The Executive Committee	1
4.	Meetings	2
5.	Organogram	2
6.	Target	2
7.	Extension Activities.....	3
7.1	Regular Programmes.....	4
7.1.1	Fish Quality Management Programmes at Landing sites.....	4
7.1.2	Sustainable Fishing/Conservation Programmes at Landing sites	5
7.1.3	Onboard Programmes	7
7.1.4	Pre-processing Centre Programmes	8
7.1.5	Processing Centre Programmes.....	9
7.1.6	Dry fish Programmes	10
7.2	Special Programmes	11
7.2.1	Street-plays.....	11
7.2.2	Medical camps.....	12
7.2.3	Clean-up Programmes.....	13
7.2.4	Rallys	15
7.2.5	School Programmes	16
7.2.6	Door to door Programme	17
7.2.7	Mass Communication	18
7.2.8	Other special Programmes	19
7.3	Activities Deserving Special Mention.....	19
8.	Specific Outcomes Achieved During the Year	40
9.	Member NGOs of NETFISH for the Year 2016-17	48
10.	Audit Report for the Year 2016-17	49

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

1. ABOUT NETFISH

Network for Fish Quality Management and Sustainable Fishing (NETFISH) is a registered society under the Marine Products Export Development Authority (MPEDA), Kochi. The society was formed in 2006 as per the Travancore–Cochin Literary, Scientific and Charitable Societies Registration Act, 1955. Being the extension arm of MPEDA, NETFISH carries out fisheries extension activities at grass root level, with an aim to empower fishermen community particularly on fish quality management, conservation and sustainable fishing and thus to promote the quality and sustainability of sea food export from India. Since its inception in 2007, NETFISH is engaged in conducting extensive awareness programmes among fishers and all groups of fishery stakeholders at areas in and around selected harbours and landing centers along the nine maritime states of the country. During its 10 years of service in the fisheries extension field NETFISH-MPEDA had organized more than 24,000 awareness programmes benefitting around 7 lakhs fishery stakeholders.

To improve the quality of the fishery products, NETFISH preaches hygienic handling habits to fishers through its Fish quality management programmes

conducted in fishing vessels, landing sites, fishermen villages, pre-processing centers, processing factories and fish drying areas. Besides, awareness classes are organized onboard fishing vessels as well as in fishing harbours and nearby localities for tackling the issues related to sustainability of marine resources. Further to these regular programmes, a series of special programmes like street plays, clean-up programmes, mass communication programmes, school children programmes, medical camps, rallies, door to door programmes, brainstorming workshops, stakeholders meetings etc. are conducted to spread the messages more effectively among the beneficiaries.

2. THE PRESIDENT

Dr. A. Jayathilak IAS, Chairman of MPEDA assumed the charge of President NETFISH during the year 2016-17.

3. THE EXECUTIVE COMMITTEE

The 10th Annual General Body Meeting held on 29th September 2016 reconstituted the Executive Committee of NETFISH by selecting eight new non-permanent members. The details of members of the Executive Committee for the year 2016-17 are furnished in Table 1.

Table 1. Executive Committee members of NETFISH (2016-17)

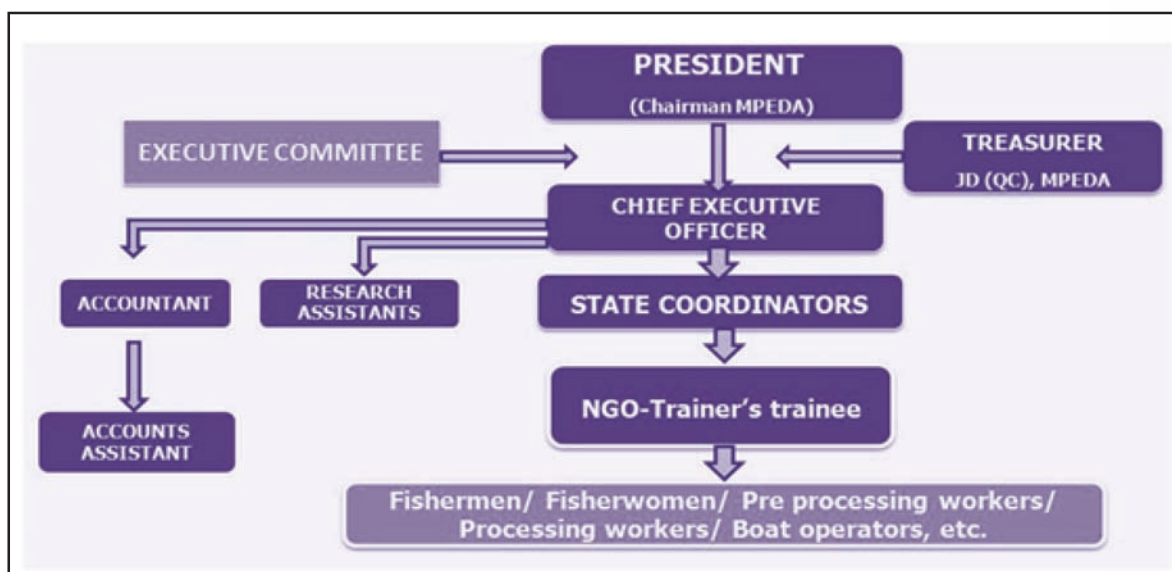
Sl.No	Name	Address
1	Dr. A. Jayathilak IAS	Chairman, MPEDA
2	Vacant	Director, MPEDA
3	Vacant	Director (M), MPEDA
4	Mr. B. Sreekumar	Secretary, MPEDA
5	Mr. V. Padmanabham	President, SEAI
6	Mr. Venkata Hari Krishna Pellakuri	Director, EP (MP), MoCI
7	Smt. Asha C. Parameswaran	Jt. Director (QC), MPEDA
8	Dr. Ravishankar C.N	Director, CIFT
9	Mr. R.C.Sinha	Director, CIFNET
10	Dr. Joice V.Thomas	CE, NETFISH
11	Mr. S. Suresh	Advisor, FDWC, Aratupuzha P.O., Kerala
12	Mr. Gayadhar Jena	Secretary, SRMSS, Balasore, Odisha
13	Mr. Venkatesh Naik	Secretary, SCODWES, Karnataka.
14	Dr. S. Velvizhi	Principal Scientist, MSSRF, Nagapatinam, Tamil Nadu
15	Mr. Ch. Pardhasaradhi	Secretary, SEARCH, Guntur District, Andhra Pradesh
16	Mr. Anil J. Gawade	Chairman, NBUSP, Sindhudurg, Maharashtra
17	Mr. Bimal Kumar Sengupta	Secretary, SAB, Kolkata, West Bengal
18	Mr. Kanjibhai B. Yadav	President, BAYERDFT, Veraval, Gujarat

4. MEETINGS

Review meetings with member NGOs were held during April 2016 in all the regions in the presence of MPEDA officials concerned and discussed on work done in previous years, its achievements and shortfalls, and the methodology to be adopted to improve the activities. The action plan for the new fiscal year was also finalised during the meeting. The review of activities and achievements of all the State

Coordinators was done in the presence of MPEDA officials at MPEDA headquarters, Kochi on 15th June 2016. The Executive Committee of NETFISH met thrice during the period at MPEDA HQ ie. the 21st EC meeting on 19th April 2016, 22nd EC meeting on 29th September 2016 and the 23rd EC on 29th March 2017. The Tenth Annual General Body Meeting of NETFISH was convened on 29th September 2016 at MPEDA, Kochi.

5. ORGANOGRAM



6. TARGET

Each region was assigned a target of 170 regular programmes and thus altogether 1700

regular extension programmes were planned to execute during 2016-17 (Table 2). Besides, special programmes had to be accomplished on need basis.

Table 2. Target set for 2016-17

Sl. No:	Programmes	Quality	Conservation	Onboard	PPC/PC	Dryfish	Total
	Regions						
1	West Bengal	60	35	35	20	20	170
2	Odisha	65	35	52	16	2	170
3	Andhra Pradesh	60	42	10	22	36	170
4	Tamil Nadu-North	75	55	10	10	20	170
5	Tamil Nadu-South	68	62	6	4	30	170
6	Kerala -South	46	36	12	74	2	170
7	Kerala - North	66	62	8	30	4	170
8	Karnataka /Goa	74	46	14	16	20	170
9	Maharashtra	50	50	14	10	46	170
10	Gujarat	64	50	6	40	10	170
Total		628	473	167	242	190	1700



7. EXTENSION ACTIVITIES

In the financial year 2016-17, NETFISH conducted 1877 extension programmes, which were comprised of 1680 regular awareness classes and 197 special programmes such as Street play (110 nos.), Medical camp (7 nos.), Clean-up programme (30 nos.), rally (4 nos.), School programme (18 nos.), Door to door programme (4 nos.), Mass communication (13 nos.) and Other special programmes (11 nos.) (Table 3). The extension tools developed by NETFISH such as posters, leaflets, documentaries and animation films were made use of for delivering the messages

effectively during the programmes. Awareness on MPEDA's subsidy schemes were also given to the beneficiaries in the training programmes. Meetings and discussions were held regularly and linkages were established with central/state departments, institutes, agencies etc. concerned, in order to solve certain issues regarding fish quality management & sustainable fishing and also for the development of infrastructure facilities at harbours and landing centres. In total, NETFISH initiatives have helped fisher communities to further enhance their skill and knowledge in fish quality management and conservation of marine resources.

Table 3. Details of extension programmes conducted during 2016-17

State/Region	Regular Programmes							Special Programmes									Financial Year Total
	Landing Centre - Quality	Conservation	On board	Pre-processing	Processing	Dry fish	Total	Street-plays	Medical camps	Harbour/coastal clean-ups	Procession / Rally	School programme	Door to door programme	Mass communications	Other special programmes	Total	
West Bengal	60	30	36	6	16	24	172	0	1	8	3	6	0	0	1	19	191
Odisha	67	26	86	15	1	0	195	0	5	1	1	2	0	0	1	10	205
Andhra Pradesh	44	44	0	12	0	36	136	25	0	2	0	1	0	4	0	32	168
Tamil Nadu-North	83	60	4	2	2	22	173	0	0	3	0	0	0	0	1	4	177
Tamil Nadu-South	71	67	0	4	0	30	172	0	0	3	0	0	2	1	0	6	178
Kerala-South	41	57	3	72	4	2	179	25	1	1	0	1	2	6	2	38	217
Kerala-North	55	59	8	45	2	2	171	50	0	3	0	2	0	2	3	60	231
Karnataka & Goa	76	42	13	13	2	27	173	6	0	4	0	0	0	0	0	10	183
Maharashtra	50	59	12	1	9	39	170	4	0	1	0	1	0	0	0	6	176
Gujarat	65	49	0	10	12	3	139	0	0	4	0	5	0	0	3	12	151
Total	612	493	162	180	48	185	1680	110	7	30	4	18	4	13	11	197	1877

7.1 REGULAR PROGRAMMES

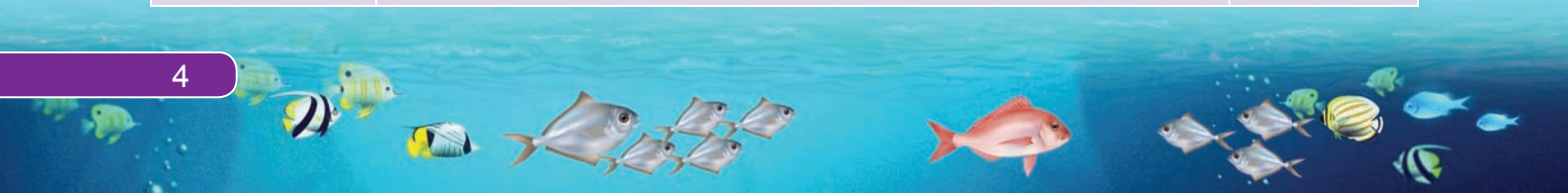
7.1.1 Fish Quality Management Programmes at Landing sites

A total of 612 fish quality management awareness programmes were conducted during the year benefitting fishermen association members, auctioneers, harbour workers, fishing vessel owners, fishing vessel crews, ice crusher workers, management society employees, fisherwomen etc. The major topics covered were sanitation at landing

sites, hygienic handling and sorting of catches, role of ice, handling of ice, icing of catch, role of microbes in fish spoilage, maintenance of cold chain operation, personal hygiene, use of insulated boxes, use of plastic basket etc. During training programmes, the MPEDA subsidy schemes were also explained to them in detail to avail insulated/ refrigerated fish hold, insulated fish boxes, ice plant, chilled room, cold storage, insulated vehicle, etc. and given a copy of details of MPEDA subsidy schemes to fishers. The classes were followed by discussions with the



Fish Quality Management Programmes		
State / Region	Selected areas & no: of programmes conducted	Total No: of programmes
West Bengal	Digha-24, Kakdwip-16, Freserganj-17, Raidighi-3	60
Odisha	Paradeep-50, Balaramgadi- 3, Bahabalapur- 2, Chilka-12	67
Andhra Pradesh	Visakhapatnam- 26, Kakinada -2, Machilipatnam – 5, Nizampatnam-11	44
Tamilnadu North	Chennai-10, Pondicherry-13, Cuddalore-15, Mudasaloodai-8, Annankovil-2, Pazhaiyar-9, Poombuhar-2, Karaikal-8, Nagapattinam-13, Nagoor-3	83
Tamilnadu South	Chinnamuttom-25, Tuticorin-18, Mandapam-20, Mallipattinam-6, Jegathapattinam-2	71
Kerala South	Thoppumpady-21, Chellanam-5, Punnapra-5, Thottappally-4, Kollam-5, Vizhinjam-1	41
Kerala North	Munambam-10, Kaalamukku-3, Chettuva-10, Munakkakadavu-11, Ponnani-3, Parappanangadi-2, Beypore-9, Puthiyappa-7	55
Karnataka & Goa	Mangalore-10, Malpe-12, Gangolli-10, Bhatkal-4, Honnavar-9, Tadri-10, Karwar-8, Cutbona-8, Malim-5	76
Maharashtra	Palghar-9, Raigad-8, Harni-10, Ratnagiri-15, Sindhudurg-8	50
Gujarat	Veraval-24, Mangrol-8, Porbandar-9, Vanakbara-19, Dholai-2, Umargam-1, Nargol-1, Umarsadi-1	65
	Total	612





participants regarding their view towards fish quality management and also about various problems related to the industry. Hands on training on cleaning of utensils, icing, handling of catch, cleaning of auction area, etc. were also given to the trainees. Leaflets on 'Hygienic handling of fish at landing centre', 'Ice & Fish', 'Personal hygiene', MPEDA's subsidy schemes etc. were distributed to the participants and posters on fish quality were shown and explained in the programme. Movies related to "Handling of fishes at landing centre" were also shown to the trainees. The participant's feedback was also recorded.

In Odisha the participants of these programmes were provided Liquid detergent, Hypochlorite, Brush, T-Shirts, LED touch light, Plastic round basket etc. In Andhra Pradesh during most of the programmes NETFISH distributed tarpaulins, Plastic baskets and PVC shovels to the beneficiaries instead of stipend to bring the practice of keeping big fish on sheets and to do away the practice of keeping fish on the floor. In TamilNadu North region instead of stipend, T-shirts and hand gloves were provided to the participants. For improving the hygienic quality of fish and ice, plastic shovels were supplied instead of stipend at Thoppumpady, Thottappally, Kayamkulam, Sakthikulangara and Neendakara. Also distributed gumboot to Punnapra fisheries harbour. Along Kerala North, materials such as rubber gloves, plastic shovels, plastic baskets and caps were distributed in different harbours in the extension programmes utilizing the stipend money. This has helped in improving the hygienic standards in terms of fish handling. In Karnataka & Goa hand gloves/caps were given to the trainees with the stipend money. Stainless Steel trays

were provided to promote hygienic handling of ice in Sassoon dock harbour, Maharashtra.

As the result of these trainings, conditions have improved like the catches are being washed and stored properly, fishers are paying much attention to the time – temperature fraction to maintain proper quality of fishes, crushed ice is used to minimize the damages of fishes and also to reduce the spoilage, insulated fish boxes are being used for storage and transportation of fishes to the markets, wherever raised platforms are not available the fishermen are using plastic sheets for auctioning the catch and fishers are aware of the importance of personal hygiene and sanitation and they follow the same.

7.1.2 Sustainable Fishing / Conservation Programmes at Landing sites

To generate awareness on conservation of marine resources among fishermen, auctioneers, harbour workers and people engaged in fishery related activities, 493 programmes were organized at different landing sites and fishermen villages along the coastal belt. The trainees were taught about conservation, sustainability, responsible fishing, implementation of mesh size regulation, fishing ban and its significance, impact of juvenile fishing and other destructive fishing methods, marine pollution, need of ecosystem build-up, government regulations etc. Most of these classes were carried out in an interactive mode with questions and answers from the participants. Leaflets and posters relevant to marine conservation were distributed and films on marine conservation were shown to the participants to make them better understand the subject. Feedback from the participants was also collected.

Sustainable Fishing / Conservation Programme		
State / Region	Selected areas & no: of programmes conducted	Total No: of programmes
West Bengal	Digha-19, Kakdwip-6, Freserganj-4, Raidighi-1	30
Odisha	Paradeep-10, Balaramgadi-2, Bahbalapur-2, Chilka-12	26
Andhra Pradesh	Visakhapatnam-14, Kakinada-20, Machilipatnam-4, Nizampatnam-6	44
Tamilnadu North	Chennai-2, Pondicherry-11, Cuddalore-7, Mudasaloodai-2, Pazhaiyar-4, Karaikal-15, Nagapattinam-11, Nagoor-8	60
Tamilnadu South	Chinnamuttom-25, Tuticorin-14, Mandapam-20, Mallipattinam-6, Jegathapattinam-2	67
Kerala South	Thoppumpady-18, Chellanam-5, Punnpra-5, Thottappally-10, Arattupuzha - Kayamkuilam-8, Kollam-10, Vizhinjam-1	57
Kerala North	Munambam-18, Kaalamukku-3, Chettuva-12, Munakkakadavu-5, Ponnani-3, Parappanangadi-4, Beypore-5, Puthiyappa-9	59
Karnataka & Goa	Mangalore-10, Malpe-5, Gangolli-3, Bhatkal-4, Honnavar-4, Tadri-5, Karwar-4, Cutbona-4, Malim-3	42
Maharashtra	Palghar-14, Raigad-15, Harne-7, Ratnagiri-13, Sindhudurg-10	59
Gujarat	Veraval-17, Mangrol-9, Porbandar-13, Vanakbara-5, Dholai-2, Umargam-1, Nargol-1, Umarsadi-1	49
Total		493





Special efforts were taken in Kerala to curb the destruction of juveniles of commercially important fish species. Several meetings were conducted with Fisheries Department officials and continuous training programmes and stakeholders meeting were also conducted. Fishermen were made aware about the necessity of control measures such as implementation of minimum legal size (M.L.S.) of selected fishery items for the sustainability of fishery resources. The benefits of the use of square mesh cod ends were also described to the fishermen based on the experiment conducted by NETFISH.

7.1.3 Onboard Programme

Onboard training programmes conducted during the year totalled to 162 programmes, by which fishing vessel crew were taught fish quality management and conservation procedures to be followed while fishing. Each programme was attended by a group of 15 trainees to whom lecture classes were given about onboard sanitation, sorting of catch, preservation and icing of catch, use of enough quantity of good quality ice, use of insulated fish boxes and fish hold, personal hygiene etc. They were also encouraged to release back endangered species of sea turtles, seahorse, sea cucumber,

Onboard Programme		
State / Region	Selected areas & no: of programmes conducted	Total No: of programmes
West Bengal	Digha-9, Kakdwip-7, Freserganj-10, Raidighi-10	36
Odisha	Paradeep-83, Balaramgadi-2, Bahabalapur-1	86
Tamilnadu North	Pazhaiyar-2, Karaikal-1, Nagapattinam-1	4
Kerala South	Kayamkulam-2, Kollam-1	3
Kerala North	Munambam-8	8
Karnataka & Goa	Mangalore-1, Gangolli-1, Bhatkal-1, Honnavar-3, Tadri-2, Karwar-2, Cutbona-2, Malim-1	13
Maharashtra	Harne-4, Ratnagiri-8	12
	Total	162



molluscs etc., caught accidentally during fishing. The practical session included hands on training like cleaning of boat deck, utensils, handling of catch, catch segregation, preservation of catch in ice, etc. Leaflets and posters relevant to onboard handling of fish and responsible fishing practices were given and explained to the trainees and movies on onboard handling and conservation measures were shown in the programme. Awareness on MPEDA schemes for fishing vessels were also given in the programmes. In two programmes conducted along Kerala South the advantage of square mesh cod end was demonstrated. Plastic shovels, gloves, caps, T-shirts, cleaning materials etc. were given during the programmes as aid materials.

7.1.4 Pre-processing Centre Programme

For creating awareness among workers, technologist and supervisors in pre-processing centres and peeling sheds, 180 training programmes were conducted during the year. The beneficiaries were given lectures on various topics including sanitation & hygienic practices in the pre-processing centre, hygienic handling of shrimps, role of ice, fish spoilage and role of microbes, personal hygiene & habits, proper use of change room and abuse of antibiotics. Emphasis was also given for the implementation of regular cleaning schedule in PPCs before and after commencement of work. Practical demonstration of change room activities and hand washing procedure were also done during the programmes. Leaflets,



Pre-processing Centre Programme		
State / Region	Selected areas & no: of programmes conducted	Total No: of programmes
West Bengal	Purba Medinipur-2, Kolkata-3, North 24 Parganas-1	6
Odisha	Sea food units	15
Andhra Pradesh	Visakhapatnam-10, Machilipatnam-2	12
Tamilnadu North	Chennai-2	2
Tamilnadu South	Tuticorin-4	4
Kerala South	Aroor-Eramallur-59, Ambalappuzha-8, Kollam-5	72
Kerala North	Munambam-45	45
Karnataka & Goa	Mangalore-2, Malpe-7, Gangolli-3, Bhatkal-1	13
Maharashtra	Ratnagiri-1	1
Gujarat	Veraval-6, Mangrol-1, Porbandar-1, Vanakbara-DIU-2	10
	Total	180

posters and documentary film on sanitation and hygienic practices in seafood pre-processing centres were made use of in the programmes. Aprons, uniforms, caps, mouth covers and gum boots were distributed to peeling shed workers using the stipend money.

7.1.5 Processing Centre Programme

During the year 2016-17, a total of 48 awareness programmes were organized at processing units, mostly on demand basis. The targeted beneficiaries were processing workers,

supervisors and technologists of processing centres, to whom lectures on sanitation & hygienic practices in the processing centre, HACCP system, hygienic handling of shrimps, physical, chemical & biological hazards, role of ice, fish spoilage and the role of microbes, personal hygiene & habits, use of change room, and abuse of antibiotics were given. Film on sanitation and hygienic practices in seafood processing centre was shown to the participants and posters and leaflets were distributed and explained to them in the programme.



Processing Centre Programme		
State / Region	Selected areas & no: of programmes conducted	Total No: of programmes
West Bengal	Purba Medinipur -1, Kolkata-15	16
Odisha	Sea food units	1
Tamilnadu North	Chennai-2	2
Kerala South	Aroor-Eramallur-2, Kollam-2	4
Kerala North	Kaalamukku-2	2
Karnataka & Goa	Malpe (Kota)- 2	2
Maharashtra	Sindhudurg-2, Ratnagiri-1, Navi Mumbai-6	9
Gujarat	Veraval-6, Mangrol-1, Porbandar-1, Vanakbara-DIU-4	12
	Total	48

7.1.6 Dry fish Programme

A total of 185 training classes were conducted during the year for dry fish workers and the people associated with dry fish industry to create awareness on hygienic production of dry fish and to improve the export of dry fish products. Major topics covered were sanitation & hygienic practices, handling and sorting of catches, demerits of traditional drying method, fish spoilage and role of microbes, personal hygiene, different technologies of fish drying, solar drying and its packing and adverse effect of harmful chemicals & pesticides. The trainees were taught on good

washing of fish, cleaning of fish contact surfaces, selection of raw materials, preparation of bed for drying, packaging and storage of finished products and marketing. They were introduced to solar drying, drying rack structures made with pipes & net and rope drying practices as part of the programme. Also, some of the Dry fish women societies of selected areas were motivated for the utilization of infrastructures constructed by the Government for the purpose. Interaction with trainees on various quality problems in dry fish was also done in the programme.





Dry fish Programme		
State / Region	Selected areas & no: of programmes conducted	Total No: of programmes
West Bengal	Digha-13, Kakdwip-5, Freserganj-6	24
Andhra Pradesh	Visakhapatnam-19, Kakinada-6, Nizampatnam-11	36
Tamilnadu North	Chennai-2, Mudasaloodai-12, Pazhaiyar-2, Poombuhar-6	22
Tamilnadu South	Chinnamuttom-8, Tuticorin-8, Mandapam-12	30
Kerala South	Alappuzha-2	2
Kerala North	Munakkakadavu-2	2
Karnataka & Goa	Mangalore-2, Malpe-5, Gangolli-1, Honnavar-5, Tadri-1 Karwar-11, Cutbona-2	27
Maharashtra	Palghar-10, Raigad-8, Harne-8, Ratnagiri-9, Sindhudurg-4	39
Gujarat	Umargam-1, Nargol-1, Umarsadi-1	3
	Total	185

7.2 SPECIAL PROGRAMMES

7.2.1 Street-plays

Targeting a large number of beneficiaries including all groups of fishery stakeholders as well as general public, 110 street plays were organized on the themes fish quality management and conservation. The street plays highlighted on the importance of keeping our beaches clean, maintaining cleanliness and hygiene at landing centres and fishing harbours, hygienic handling of fishes and ice, proper icing of





Street-plays		
State / Region	Selected areas & no: of programmes conducted	Total No: of programmes
Andhra Pradesh	Visakhapatnam-10, Machilipatnam-5, Nizampatnam-5, Kakinada-5	25
Kerala South	Thoppumpady-4, Chellanam-1, Thottappally-5, Kayamkulam-5, Kollam District-5, Vizhinjam District-5	25
Kerala North	Chettuva-2, Munakkakadavu-3, Chavakkad-3, Parappanangadi-8, Tanur-6, Tirur-5, Kadalundy -2, Bepore-5, Maaradu-4, Faroq-4, Vellayil-2, Puthiyappa-2, Kaappad-2, Koilandy-2	50
Karnataka & Goa	Gokarna-1, Tadri-1, Manjuguni-1, Belekeri-1, Muduga-1, Karwar-1	6
Maharashtra	Alibaag-4	4
	Total	110

catch, personal hygiene, conservation of mangrove, juvenile fishing, avoid indiscriminate collection of prawn seeds and pollution of marine environment. The shows attracted huge audience in all the regions and the messages could be effectively conveyed to the audience.

7.2.2 Medical camps

The fishermen and harbour workers engaged in fishing and allied activities throughout the year get less time to look after the health of their family members. Added to it, lack of proper awareness as well as non-availability of sufficient facility nearby, keeps the fishers completely out of availing timely health checkups and treatments and hence they come across with lot of health hazards. NETFISH conducts free medical camps for fishers and allied workers to

help them out of these difficulties and thus to improve their wellbeing. This year 7 free medical camps were conducted in selected places in West Bengal, Odisha and Kerala as per the details given here.

In Paradeep harbour, medical camps were conducted at regular intervals and a total of 5 medical camps were conducted during December, January, February and March 2017, with the support of member NGO, SRMSS and a medical team including two Doctors, one Pathologist, one Pharmacist and supporting staff. Trawler owners association also coordinated for the medical camps in which around 900 fishers got benefitted. In West Bengal, along with member NGO, The Science Association of Bengal medical health awareness camp and medical check-up for rural people was organized in Nandabhang





Medical camps		
State / Region	Selected areas	No: of programmes conducted
West Bengal	Namkhana	1
Odisha	Paradeep	5
Kerala South	Azheekal, Kollam	1
	Total	7

fishing village, Namkhana, South 24 Parganas on 25th February 2017, with active support and participation of Nandabhanga Akadash and Rural Development Forum, Institute of Engineers India, West Bengal. About 128 fishers, including 46 males and 82 females made use of the camp. In Kerala, a free medical camp was organized in association with Sree Pookkottu Charitable Trust (SPCT) for the fishers of Azheekal region in Kollam on 8th June 2016, as part of NETFISH's World Oceans Day celebrations.

These camps facilitated the sea going fishermen and their family members to thoroughly examine their general health, gynaecological, dental and ophthalmological aspects, blood pressure, blood sugar etc. Based on the tests, free medicines were dispensed to the participants. The medical camps thus helped to bring free healthcare and health information to the fishers and to identify the common health problems of the community. Awareness on the need for personal hygiene in prevention of serious diseases was also done as part of these camps. The fishers expressed their special gratitude to NETFISH for organizing such camps for their welfare.

7.2.3 Clean-up Programmes

It is utmost important to maintain hygiene and sanitation in fishing vessels, fishing harbours, landing centres and beach landing sites as they are the prime locations where fish contamination can happen. Special clean-up drives were organized onboard fishing vessels, at harbours, landing sites and coastal areas to create awareness among fishers on the need for keeping the fish contact surfaces clean and microbe free and also to encourage them to follow hygienic practices during fish handling. This year 30 clean-up programmes were organized by NETFISH giving special emphasis to the Central Government's "Swachh Bharat Abhiyan".

Most of these programmes were arranged as part of World Fisheries Day and World Oceans Day. The programme consisted of a lecture on significances of hygiene and cleanliness in fishing boats, fishing harbours and other fish handling areas. Sanitation kits consisting of liquid soap and brush were distributed during the programmes. The fishers were well trained and they were realized that cleaned and sanitized areas would give better quality thus fetching best price for their catch.



Clean-up Programmes		
State / Region	Selected areas	Total No: of programmes
West Bengal	Freserganj harbour (WOD), Deshapran harbour (WFD), Sankarpur beach (coastal cleanup- World Environment Day), Deshapran harbour-3 (boat cleanup)	8
Odisha	Paradeep harbour (WFD)	1
Andhra Pradesh	Visakhapatnam harbour(Swachta Pakhwada), Machilipatnam harbour (WFD)	2
Tamilnadu North	Pazhaiyar Fishing harbour(WOD), Chennai Marina beach, Poombuhar harbour(WFD)	3
Tamilnadu South	Muthu Nagar Beach, Tuticorin (World Oceans Day), Chinnamuttom FH (World Fisheries Day) and Tharuvaikulam landing centre (Swacch Bharat)	3
Kerala South	Punnapra landing centre	1
Kerala North	Chettuva harbour (WOD), Munakkakadavu harbour, Beypore harbour (WFD)	3
Karnataka & Goa	Honnavar FH (Swachta Pakhwada), Karwar FH (WOD), Bhatkal (Mavinakurve FH) (WFD), Mangalore FH (Demo cum Harbour clean-up)	4
Maharashtra	Mirkarwada harbour (Boat Clean-up)	1
Gujarat	Veraval (Swachta Pakhwada), Chorwad (WOD), Porbandar (WFD), Chorwad	4
	Total	30





7.2.4 Rally

Rallies involving fishers, students as well as general public were conducted on special occasions to generate mass awareness on hygiene and conservation. During the event the participants held placards with messages on sustainable fishing, protecting watershed, maintaining fish quality, better market facilities and ensure better livelihood health and hygiene, unscientific catch of juvenile fishes and

destructive fishing practices. Also they voiced slogans such as *stop juvenile fishing, today's juveniles are tomorrow's wealth, maintain hygiene and sanitation in fish landing centre* etc. In West Bengal the rallies were held on special occasions such as World Environment Day, World Oceans Day and International Coastal Cleanup Day. Whereas in Odisha, the rally was conducted in Paradeep fishing harbour for the replacement of bamboo baskets in the harbour.

Rally		
State / Region	Selected areas	Total No: of programmes
West Bengal	Sankarpur FH (WED), Freserganj FH (WOD), Tajpur (ICCD)	3
Odisha	Paradeep	1
	Total	4



7.2.5 School programmes

Awareness programmes for school students were conducted at 18 schools along the coastal belt in which most of the participants belonged to fishermen community. The children are expected to be mediators who make aware their parents and other family members engaged in fishing and allied activities. The school programmes were consisted of lecture classes on sustainable fishing, marine conservation, protection of mangroves, marine turtle conservation, by-catch reduction, marine pollution, biological crop losses by indiscriminate collection of prawn seeds, acts & rules by State Govt. & Central Govt. for fisheries conservation etc. Besides, aspects like present status of the fishery resources and exports statistics, fish quality management

measures, need of personal hygiene, etc. were also covered. For making a note of the lectures, writing pads and pens were provided to the students. Competitions such as drawing, writing, debate, quiz etc. were also conducted for the students as part of the school programme and the winners were rewarded. Documentary and animation films relevant to the subjects were shown to the students which were watched with great enthusiasm and also leaflets and posters were circulated to the students & teachers. Most of the students who attended the programmes promised to convey the messages they got from the programme to their family members who are involved in fishery activities. NETFISH received good appreciation from the principal and teachers for conducting such a programme in their school.

School programmes		
State / Region	Selected areas	Total No: of programmes
West Bengal	Sankarpur (WED), Freserganj (WOD), Purba Medinipur	6
Odisha	Khurda, Balasore	2
Andhra Pradesh	Machilipatnam	1
Kerala South	Kollam	1
Kerala North	Munakkakadavu, Njarakkal	2
Maharashtra	Ratnagiri	1
Gujarat	Veraval, Mangrol, Porbandar	5
	Total	18



7.2.6 Door to door programme

Awareness on the importance of sustainable fishing practices, hygienic handling of fish in landing centers and fishing vessels, importance of conservation of critical ecosystem like coral reef and mangroves etc. were imparted to the fisher households in the fishing villages through Door to Door campaign using NETFISH outreach materials. The programmes included discussion and distribution of leaflets and posters on the subjects concerned as well as pasting of awareness stickers relevant to the sector, reaching each fisher folk personally. Four door to door programmes were organized during the year in which the State coordinator and the NGO team interacted with each family member of fishermen and learned their view on fish quality management and conservation. They were provided sufficient information and guidance on personal

hygiene, fish quality management and conservation so as to change their negative attitudes. Volunteers comprising of fishermen leaders, church officials and college students associated in the Door to Door campaigns. Fishermen were met during their net-mending, boat repairing activities and who were involved in recreational activities also. The response was overwhelming from the fisher folk. They warmly greeted the volunteers and also clarified with them their doubts and grievances regarding sustainable fishing, hygienic handling and conservation of coastal ecosystems. The villagers understood the need of sustainable fishing for constant supply of sea food material, importance of hygienic handling for better export market oriented revenue and also they understood the importance of conservation of critical ecosystems. Thus, the objectives of the Door to door programme were attained.

Door to door programme		
State / Region	Selected areas	Total No: of programmes
TamilNadu South	Arokyapuram and Kanyakumari	2
Kerala South	Punnapra	2
	Total	4





7.2.7 Mass communication

Mass communication programmes were conducted mostly by arranging mike announcements, distribution of leaflets and also displaying posters at harbours as well as nearby villages to communicate to the fishers without disturbing their work. In all, 13 mass communication programmes were conducted during 2016-17. The programmes were mainly

focused on awareness on juvenile fishing and its impacts, personnel hygiene, coastal cleanliness, marine pollution, popularisation of MPEDA subsidy schemes. The targeted audience of the programme were fishermen, stakeholders, boat workers, harbour workers etc. One of the advantages with this type of programme is its wide reach and workers can listen to the message even while at work.

Mass communication		
State / Region	Selected areas	Total No: of programmes
Andhra Pradesh	Visakhapatnam	4
TamilNadu South	Kanyakumari	1
Kerala South	Thoppumpady, Kayamkulam, Punnapra	6
Kerala North	Munambam	2
	Total	13



7.2.8 Other special programmes

Other special programmes			
State / Region	Type of Programme	Selected Area	Total No: of programmes
West Bengal	Skill development programme on <i>“Fishery Management and Fish Net Making and Repairing”</i>	Diamond Harbour	1
Odisha	Awareness on <i>“Harmful effect of illegal chemical in fishery product-its prevention and control”</i>	Paradeep	1
TamilNadu North	Awareness event & Distribution of plastic shovels	Karaikal	1
Kerala South	Exhibition stall at <i>‘Harithatheeram Karshikamela’</i>	Mararikulam	2
	Workshop on <i>“Fishery based business enterprises for coastal area”</i>	Alappuzha	
Kerala North	Sea Club seminar on <i>“Indigenous Traditional Knowledge in Fisheries”</i>	St Albert’s College, Ernakulam	3
	Exhibition stall at the <i>Albertian International Educational Expo 2017</i>		
	Workshop on <i>“Effective implementation of the Minimum Legal Size (MLS) in Kerala fisheries”</i>	CMFRI, Kochi	
Gujarat	Training on <i>“Conversion of diamond mesh to square mesh nets”</i>	Porbandar	3
	Demonstration of slurry ice machine-2	Okha	
Total			11

7.3 Activities Deserving Special Mention

7.3.1 Workshop on “Effective Implementation of Minimum Legal Size in Fisheries”

Though the Govt. of Kerala notified the Minimum Legal Size for 14 fish items vide GO (P) no. 40/15/F&PD dtd. 24th July 2015, a joint effort was much needed towards its effective implementation. In this context, NETFISH-MPEDA, in cooperation with Dept. Of Fisheries of Kerala, CMFRI & CIFT, organized a one day brainstorming workshop on the “Effective Implementation of Minimum Legal Size (M.L.S) in Fisheries, Kerala”, on 26th August 2016 at CMFRI, Kochi by participating about 125 people including stakeholders from all sectors in fisheries, Scientists from CMFRI, CIFT, CIFNET, KUFOS, CUSAT, NIFPHATT and officials from State Fisheries, EIA, Matsyafed, MPEDA, NETFISH and SEAI. Smt. J. Mercykutty Amma, Hon’ble Minister for Fisheries, Govt. of Kerala inaugurated the workshop. Dr. A. Jayathilak IAS, Chairman MPEDA presided over the function. Shri. B. Sreekumar, Secretary MPEDA delivered the welcome address and other dignitaries

present, Smt. Mini Antony IAS, Director of Fisheries, Kerala, Dr. A. Gopalakrishnan, Director, CMFRI, Dr. K. Asok Kumar, Director-in-Charge, CIFT and Shri. P. Jayaprakash & Dr. S. Ashalatha, Authority Members of MPEDA, offered the felicitations. Shri. K. N. Vimal Kumar, Joint Director, MPEDA delivered the vote of thanks.

After the inaugural programme, two presentations were made - 1. ‘Effective implementation of M.L.S in Kerala’ by Dr. K. Sunil Mohamed, Principal Scientist, CMFRI and 2. ‘Technological measures developed by CIFT for responsible fishing’ by Dr. Leela Edwin, Principal Scientist CIFT. The presentations were ensued by an open discussion involving all the participants. The discussion session was chaired by Dr. Joice V Thomas, Chief Executive, NETFISH, Shri. K. K. Satheesh Kumar, Joint Director, Fisheries, Dr. K. Sunil Mohamed and Dr. Leela Edwin. Finally Shri. Satheesh did the summary of the workshop. The discussion session ended with thanks giving by Shri. Santhosh N. K., State Coordinator, NETFISH.



Smt. J. Mercykutty Amma, Hon'ble Fisheries Minister of Kerala, inaugurating the workshop

The major recommendations evolved in the workshop were: (1) All groups of stakeholders have unanimously agreed to that fishery resources need to be conserved by strict implementation of KMFR Act. (2) Apart from the 14 species included in the Govt. notification, Minimum legal size has to be implemented to all the 58 species as recommended by CMFRI, Kochi. (3) The participants of the workshop unanimously agreed to impose penal action against those who are involved in catching, transporting, marketing, selling and keeping in possession of the juvenile fishes

as implemented in West Bengal for Hilsa Fishery conservation. (4) KMFR Act has to be amended by including size of the fishing vessel, horse power of engines, length and width of fishing nets, mesh size for all type of fishing nets, fishing time etc. (5) No new fishing vessels shall be allowed because of the high fishing pressure in Kerala waters. The registration of fishing vessels and license has to be strictly imposed. Law may be amended to restrict the manufacture of new fishing vessels. (6) Square mesh has to be implemented in place of diamond mesh used in trawl



net for the conservation of juveniles. (7) Complete fishing ban of 60 days need to be implemented in Kerala as in other maritime states. This may be done after due discussion with the traditional sector. (8) Inspection for juvenile fish catch need to be conducted strictly by the department of fisheries. (9) Prevent unscientific fishing practices such as pair trawling, mini trawling, night trawling, etc. (10) In every harbour, a Co-management Committee should be formed with representatives from Dept. of fisheries and other stakeholders (boat owners, fishermen, auctioneers, workers etc.) and they shall be empowered to take action on unscientific fishing practices, KMFRA & M.L.S violations. (11) Awareness programmes on M.L.S, Square mesh, unscientific fishing practices etc. have to be conducted in all 9 marine districts by Dept. of Fisheries, Jagratha Samithi, coastal police etc. (12) Further discussions on MLS, KMFRA act amendments need to be conducted in all coastal districts with stakeholder groups. The ideas and concepts evolved in the deliberations of this workshop have helped the policy makers and the government machinery to consolidate measures for the proper and effective implementation of M.L.S programme in the state.

7.3.2 Square Mesh Fabrication Trainings

On 29th June, a training programme on “conversion of diamond mesh to square mesh” was conducted at Porbandar fishing harbour. AD SRO, Porbandar, AD, Dept. of fisheries, Scientist of CIFT, Veraval, Representative for SEAI, & President, Porbandar Boat Association were present in the training programme. Mr.A Sakthivel , AD, SRO, Porbandar, Mr. R.B.Vajpai, AD, Fisheries, and Dr. Gaihiangam Kamei, Scientist , CIFT spoke on the importance of such kind of programme to conserve the marine resource. Shri.J.B.Paradva, ACTO and Shri.H.V.Pungeera, ATA, CIFT, Veraval trained the fishermen on how to convert diamond mesh net to square mesh cod end by practical demonstration. Then each group of fishermen were made to prepare the square mesh cod end themselves. The programme ended by vote of thanks by President, B.A.Yadav Education and Rural Development Foundation Trust, Veraval. Ashokbhai Jungi, representative from SEAI, Porbandar has expressed his gratitude to NETFISH for organizing such kind of programme for the welfare of sea food sector.



7.3.3 Awareness programme for VHSE students

To familiarize vocational school students on various fishing methods, post harvest handling, processing, fish farming, fishery conservation etc. NETFISH organized special awareness programmes in vocational schools where fisheries/aquaculture is taught as a subject at plus one & plus two level. In many of the VHSE schools not much attention is given to the students with regard to various developments in the sector and mostly they are getting only theoretical knowledge. To tackle this issue, NETFISH conducted special awareness programmes in VHSE schools with the aid of necessary models of fishing gears and netting materials to educate the students. In all, 5 VHSE programmes were conducted during January to March 2017 as per the details given here.

- On 27th January 2017 the first VHSE programme was conducted in Odisha at Dr. Jadunath Junior College, Rasalpur, Balasore which was attended by 30 students from both plus one and plus two batches.
- In Kerala, a programme was arranged at Govt. Vocational Higher Secondary School, Njarakkal on 9th February which was participated by 60

students and on 17th February 2017 another programme was conducted in Govt. Vocational Higher Secondary School, Cheryazheekkal where 100 students from different batches attended.

- A total of 39 students from eleventh standard of A. K. Junior College, Ratnagiri, Maharashtra actively participated in the VHSE programme held on 7th March 2017.
- On 18th March the programme arranged in MVKR Fisheries Polytechnic College, Machilipatnam, Andhra Pradesh was attended by around 45 participants including students and faculties.

In the VHSE programmes the students were given an overview about activities of MPEDA & NETFISH, capture fisheries, different type of fishing crafts and gears, hygiene practices to be followed in fishing harbours, landing centers, processing plants and conservation of fishery resource for sustainable fishing. The students were also familiarized with models of different fishing gears such as trawl net, cast net, purse seine, gill net, long line, Chinese dip net, trap net, different type of netting materials, twines etc. and the mode of working of the nets were explained to





them. NETFISH documentary and animation videos related to the topics were screened and posters and leaflets were given to the students. All the students actively participated in the programme and while giving feedback they expressed their gratitude to NETFISH-MPEDA for arranging such a programme for them. The faculties of the schools urged NETFISH to conduct more number of training programmes including field trip to nearby fishing harbours/landing centers, seafood processing unit, etc.

7.3.4 Observance of 'Swachhta Pakhwada' Campaign

NETFISH has organized a special cleanliness drive at harbours, as part of 'Swachhta Pakhwada Campaign' declared by Ministry of Commerce and Industry during 16th to 30th April 2016. The main objective of the drive was spreading cleanliness awareness among people, motivating hygienic practice, strengthening the cleanliness systems in the harbour as well as creating user friendly environment. The clean-up events were conducted at Veraval, Honnavar and Visakhapatnam harbours.

On 27th April 2016, a remarkable effort was made to clean the Veraval Fishing harbour in Gujarat, jointly with MPEDA RO, CIFT, Dept. of Fisheries, Veraval Patan Joint Municipality and Members of Bhidya Koli and Kharwa Samaj, Veraval. President of Municipality/ Secretary of SEAI, Veraval was the chief guest of the programme. SIC of CIFT Veraval, Counselors of Municipality and Leaders of fishermen community were also present on the occasion. Along with the officials, around 150 volunteers from fishermen community and 20 labourers of municipality have actively engaged in the clean-up drive and by their

concerted effort, the entire harbour and its premises were removed off from all sort of wastes. Caps and cleaning materials were provided to the participants. The dignitaries present appreciated NETFISH for arranging such an event.

Another harbour clean-up event was carried out at Honnavar fishing harbour in Karnataka on 28th April 2016. Asst. Director of Fisheries inaugurated the programme and urged all fishers to co-operate in maintaining the hygiene and sanitation inside the harbour. Leaders of Boat Owner's Associations and Worker's union also supported NETFISH in executing the cleanup event. More than 250 members of fishermen association, officials, fish workers, fisher women and NGOs participated in the programme. A cleanup demo was conducted followed by cleaning of entire harbour. Door to door distribution of hand bills and leaflets to public was done as part of the campaign. Do's and Don'ts sign boards were fixed inside and outside the auction hall and the stake holders were told to practice using dustbins given by NETFISH for dumping the waste. Also, awareness video shows were arranged for the participants.

On 29th April 2016, NETFISH organized a Harbour cleanup programme at Visakhapatnam fishing harbour in Andhra Pradesh. Asst. Traffic Manager of Visakhapatnam Port Trust (VPT) inaugurated the programme by giving message on the importance of Swachh Bharath Mission. Chief Medical Officer, Sanitary Inspector and staff of Visakhapatnam Port Trust, Fishery Development Officer, members of VIDBOW Association, General Secretary of AP Mechanized Boat Owners Association and President



of Visakha Mechanized Boat Owners Association along with the stakeholders actively participated in the campaign and cleaned fishing harbour premises, fish market and fish landing areas by collecting all sort of wastes. NETFISH provided caps and all cleaning materials required for the event. Banners with slogans “Jai Swaccha Bharath” and “this harbour is ours and keep the premises clean” were displayed during the programme.

7.3.5 World Oceans Day Celebration

The World Oceans day was observed globally on 8th June 2016 with the theme ‘Healthy Oceans, Healthy

Planet’. The major objectives of World Oceans day are to remind everyone of the major role the oceans have in their everyday life, to inform the public on the impacts of human deeds on oceans and to mobilize them for the sustainable management of the ocean resources. Safe, healthy and productive seas and oceans are integral to human well-being, economic security and sustainable development. NETFISH observed this significant day by organizing a series of events such as harbour clean-up programmes and medical camp in selected fishing harbours and landing centers across the country, as per the details given in the table below.



State/Region	World Oceans Day programmes conducted	Venue	Participants
Gujarat	Harbour clean-up	Chorwad Landing Center	150 fishermen volunteers, President & Secretary of the fishermen community, Asst. Director of MPEDA RO Veraval, SCO, BAYERDFT (NGO)
Karnataka	Mass clean-up, rally and awareness class on sustainable fishing	Baithkol fishing harbour, Karwar	120 fishers and merchants, President of Federation of Uttara Kannada Fishermen Cooperative Societies, DD & AD of Fisheries, SCO, SCODWES (NGO) and HDCs
Kerala North	Public awareness class and clean-up	Chettuva fishing harbour	Engandiyoor Panchayat President, members of the Panchayat, harbour workers, SCO
Kerala South	Free medical camp	Azheekal, Kollam	MPEDA Authority Member, President, Sree Pookkottu Charitable Trust, AD of MPEDA SRO Kollam, 200 fisherfolks, SCO
Tamilnadu North	Mass clean-up activity	Pazhaiyar Fishing harbour	Fisheries department officials, harbour management committee members and boat owner's association members, 45 members including dry fish women and 7 labours, SCO, FPO (NGO)
Tamilnadu South	Clean-up event at	Muthunagar Beach, Tuticorin	District Sub-collector, DD of MPEDA RO Chennai, 40 Sea Club members from Fisheries College & Research Institute, 20 members from fisherwomen SHG and 15 visitors of the beach, SCO & CRS-DeRose (NGO)
West Bengal	Drawing competition for school children, rally and Harbour Clean-up Programme	Freserganj, South 24 Parganas	Secretary & members of Fishermen Associations, Panchayat member, 41 students of Vidyasagar Academy, Special Officer of Freserganj harbour, Boat owners, aratder and harbour cleaning workers





7.3.6 World Fisheries Day Celebration

World Fisheries day is celebrated every year on November 21 worldwide by organizing rallies, workshops, public meetings, cultural programs, dramas, exhibition, music show and demonstrations to highlight the importance of maintaining the

world's fisheries. This occasion offers us a time to celebrate and reflect on our involvement and responsibility with the fish resources and with the people that bring us the bounty of the oceans. NETFISH, being an agency that stands for the management of fish quality and sustainability, had



observed World Fisheries Day in all coastal states of the country by conducting various programmes involving fishers in the capture fisheries sector. In conformity with 'Swachh Bharat Abhiyan', hygiene and sanitation were the focal themes for NETFISH for the celebration of the day and therefore mostly

harbour clean-up programmes were organized on the occasion. It is felt that general awareness creation among the fisher population and also engaging them in the process will be one of the best ways to make them appreciate the importance of cleanliness.

State/Region	Programmes conducted	Venue	Participants
West Bengal	Harbour clean-up	Deshapran fishing harbour, Purba Medinipur	Officer-in-charge of Junput Coastal Police Station, 27 VHSE students of Kishorenagar Siksha Sadan, Coastal police, Harbour officials, Harbour cleaning staffs, fishermen, SCO, Sarboday Sangha and HDC
Odisha	Mass clean-up programme	Paradeep fishing harbour	Manager of Harbour Management Society, Fishery Officers, Secretary & Executive members of Trawler Association, SCO & SRMSS (NGO)
Andhra Pradesh	Awareness meeting & Harbour clean-up	Machilipatnam fishing harbour	500 fishermen, students and staff of Sree Swamy Narayan High School, Officials from Dept of Port, Dept of Fisheries, Boat owners and Harbour staff, SCO, SEARCH (NGO)
Tamil Nadu North	<ul style="list-style-type: none"> Coastal / Harbour clean-up Awareness meet & distribution of shovels 	<ul style="list-style-type: none"> Poombuhar Fishing Harbour Karaikal 	<ul style="list-style-type: none"> Poombuhar Village Traditional fisherfolk, panchayat leaders, NSS students of Poombuhar Arts and Science college, young fishers, SCO, MSSRF (NGO) Pondicherry Agriculture Minister, DD of Dept. of Fisheries, Karaikal south MLA, coast guard commander, SI of fisheries & 200 fishers
Tamil Nadu South	Harbour clean-up	Chinnamuttom fishing harbour	50 fishers, Fishermen Union Leaders, State Fisheries Dept. Officials, Fisheries Training and Research Centre, Tamilnadu Fisheries University, MSSRF, SCO
Kerala South	Workshop on "Fishery based business enterprises"	Alappuzha	Chairperson, Alappuzha Municipality, Executive director of Alleppey Roopatha, Scientist & Technical officer from CIFT, 48 women from 4 coastal villages & SCO
Kerala North	Awareness event and a harbour clean-up drive	Beyepore	Kozhikode Corporation Councilor, President of Arayasamajam, President of Harbour Vikasana Samithi, community leader, members of harbour worker's union, other stakeholders, SCO & HDC
Karnataka & Goa	Harbour clean-up	Bhatkal fishing harbour	Secretary of Boat owners association, 75 participants including fishers of Tonka, Kasarkod, Honnavar fishing harbours, members of SHGs, boat owners and crew members, SCO & SCODWES (NGO)
Maharashtra	Boat cleanup	Mirkarwada fishing harbour	Assistant Commissioner of Fisheries, officials from Department of Fisheries, members of Trawler Owner Associations and Chairmen of major Fishermen Co-operative Societies, SCO, NBUP (NGO) & HDC
Gujarat	Harbour clean-up	Porbandar Fishing harbour	Boat Association, fishermen, Porbandar Municipal Corporation, Kharwa Samaj, AD, MPEDA SRO, Porbandar, Fisheries officials Port & Municipal Corporation, 150 volunteers, SCO & BAYERTDFT



7.3.7 Celebration of International Coastal Cleanup Day

The International Coastal Cleanup Day is observed worldwide every year on the third Saturday of September. This event aims at generating awareness among public on harmful impacts of pollution and its sources and to engage people in removing trash from the beaches thereby to change their behaviour. NETFISH in West Bengal and Tamil

Nadu observed the International Coastal Cleanup Day by conducting special cleanup drives, rallies and awareness meetings.

In West Bengal, a beach cleanup, a rally and a consultative workshop on 'Biodiversity Conservation and Marine Ecosystem' were held on 20th September 2016 at Tajpur, Purba Medinipur, in collaboration with Ramnagar-I Biodiversity Management Committee. The event was inaugurated by Smt. Rasmi Kamal,





IAS, Hon'ble District Magistrate of Purba Medinipur, S.D.O Contai, ADM Environment & Tourism & D.P.O SSM, Asst. Director of Fisheries (Marine) Contai, Research Officer, West Bengal Biodiversity Board (WBBDB), Project Coordinator, WBBDB, Chairman of Biodiversity Management Committee, fishers, school students, teachers, media personnel, NGO representatives, and HDCs were also attended. The beach cleanup was conducted with the active participation of school students of Hirapur Dashagram High School (H.S), Khudbheri H.S & Bodhra Pantheswari H.S. NETFISH provided hand gloves, caps and big poly bags to the participants to collect the wastes. They removed the debris including plastic bags, PET bottles, plastic cups, thermocol pieces, broken nets etc. All wastes were collected in waste disposal polythene bags and removed from the locality. Then, a rally was conducted in Tajpur sea beach, with the participants holding banners and posters on conservation and with the theme of *Swatch Bharat Mission "Ek kadam Swachata ki aur"*. In the workshop conducted, Dr. Anirban Roy, Research Officer, West Bengal Biodiversity Board (WBBDB) gave a speech on biodiversity and its significance. NETFISH SCO gave a lecture to the school students on International Coastal Cleanup Day, its history and significances and abuse of plastic and its impact in fisheries. Dr. Rupam Mandal, Project Co-ordinator, (WBBDB) elaborated on importance of the day, ecology and marine life etc. Documentary film on Marine Conservation and animation film on Conservation entitled "Escape to depth" were shown to the students.

In Tamil Nadu, NETFISH in collaboration with National Green Crops organized a Coastal cleanup and Marine Biodiversity Awareness programme at

Chennai on 23rd September 2016. Dr. H. Malleshappa IFS, Director, Dept of Environment, Government of Tamil Nadu inaugurated the programme. About 145 teacher trainees from District Institute of Education & Training (DIET) along with Director, Deputy Director, District Co-ordinator, Eco club Co-ordinator, officials from DIET and MPEDA actively participated in the cleanup drive. Huge amount of waste materials were collected from Marina Beach in an hour and were handed over to the Chennai Corporation sanitation staff. They also urged the public to avoid disposal of plastic wastes in the beach. An oath for protecting the coastal areas was also taken by all participants. Later on, a Marine Biodiversity Awareness programme was conducted, in which an awareness class on conservation of coastal area was delivered by Dr. Sathish Sahayak, Programme Manager, OFD MPEDA to the participants. SCO, NETFISH in his talk explained on the role of teachers in coastal conservation, conservation of turtles and environment and the role played by the ocean in maintaining the Earth's climate. Co-ordinator of National Green Crops proposed the vote of thanks.





7.3.8 World Environment Day Celebration

NETFISH Kolkata celebrated the day by organizing drawing competition, rally and beach clean-up programme at Sankarpur fishing harbour, Purba Medinipur on 5th June 2016. Students and teachers of Chandanpur Birendra Siksha Sandan and Chairman of Ramnagar-1 and Contai-1

Biodiversity Management committee were present on the occasion. NETFISH provided colour box, art paper, pencil, and eraser to the participants of the drawing competition and prizes were distributed to the winners. Hand gloves, cap, and big black poly bags were provided during rally and beach clean-up.



7.3.9 On-board demonstration programme of slurry ice machine

NETFISH Gujarat conducted 2 onboard training cum demonstration programme of slurry ice produced from sea water, for the benefit of fishermen and exporter at Porbandar and Okha fishing harbours, on 2nd and 3rd February 2017 in association with “Chirag Ice Factory Pvt. Ltd-“Ice Flow” Mumbai. The importance of fish quality for export market, the need for installing slurry ice machine onboard while going for fishing and the advantages of slurry ice for maintaining the quality of seafoods were explained in the programme. All participants in two fishing vessels were taken out to sea to demonstrate preparation of slurry ice from clean sea water. The Technical Director and Sales Manager of Chirag Ice Factory explained the different parts of slurry ice machine, suitable place for installing the machine, method of production of slurry ice, cost of machine, preservation method of fish with slurry ice, etc.

7.3.10 Awareness on abuse of harmful chemicals in fish preservation

In the wake of widespread complaints on adulteration of fish being sold in local markets with toxic chemicals, the Food Safety Department of Kerala launched a state level initiative named ‘Operation Sagar Rani’. The objective was to ensure safety and hygiene at fish handling and distribution centres through regular inspections as well as by creating awareness among the fishermen, sellers

and consumers on how these chemicals affect the human body. The Food Safety Department identified NETFISH as the preeminent organization to reach the fishers and traders easily and thus demanded NETFISH to become a part of the awareness sessions by providing resource persons for handling the awareness classes. NETFISH State Coordinators in Kerala, Mrs. Sangeetha N.R. and Mr. Santhosh N.K. actively involved in the awareness classes organized by the Food Safety Department at Punnapra, Munambam, Thottappilly, Thoppumpady, Champakkara and Ettumanur from 9th to 16th February 2017. Very interactive sessions including awareness on infestation of chemicals like Formalin, Sodium Benzoate, Ammonia etc. in human body through consumption of fish preserved using these chemicals, harmful effects of these chemicals in human body, methods for safe and hygienic handling and preservation of fish were given and the audience gave their feedbacks based on their experience. Thus the programmes proved very fruitful.

To create awareness about the use of chemicals in fishery product, a special awareness meeting was conducted on “Harmful effect of illegal chemicals in fishery product” at Paradeep fishing harbour on 15th March 2017. During the meeting, the points about ill effect of chemicals used for raw fish preservation, its prevention and control measures were discussed in detail. Around 25 members including state fisheries officials, Harbour management society members, buying agents association members, trawler owners, and NGO’s attended the programme.



7.3.11 Participation in Exhibitions

IISS 2016: From 23rd to 25th Sep. 2016 NETFISH took part in the India International Sea food Show organized by MPEDA at Port stadium Visakhapatnam. The stall was decorated with the posters depicting activities of NETFISH in all maritime states. Chairman and Secretary MPEDA along with Shri. Manmohan Singh, Principal Secretary to the AP Govt. Animal Husbandry, Dairy Development and Fisheries and Shri. Ram Sankar Naik, Commissioner of Fisheries, AP visited the stall. SCO explained the activities of NETFISH in all maritime states. During the show NETFISH distributed the leaflets to the visitors and the awareness videos were played continuously in the stall.



Harithatheeram 2016: From 27th to 29th of December 2016, SCO had attended the exhibition at Mararikulam, Alappuzha in connection with the coastal agriculture summit – ‘*Harithatheeram*’, conducted by Kadalora Farmers Producer Company



Limited. The posters regarding sustainable fishing, Fish Quality management, Training programmes, leaf lets, Aquaculture posters, Indian Commercial fishes charts etc were exhibited in the stall and awareness videos were also shown. More than 1000 people visited the stall.

Albertian International Education Expo 2017: NETFISH-MPEDA has associated in the ‘Albertian International Educational Expo 2017’ organized by St. Albert’s College, Ernakulam from 25th – 28th January 2017. The aim of the expo was to bring together the best educational programmes at the bachelors’ and masters’ level from all over the country and even international institutions to students desiring to pursue their higher education in a multitude of disciplines. There were around 200 stalls featuring various subjects as well as innovative products made by students of the college. Seminars and talks by eminent personalities were also held as part of the event. In the educational expo an exhibition stall was put up by NETFISH, where the activities of NETFISH were displayed through posters, leaflets, publications and banners. Sale of MPEDA publications was also done in the stall. NETFISH stall in the expo was visited by students from various schools, colleges and the general public.



Visakha Utsav: NETFISH participated in 3 days Mastya Mela named as *Visakha Utsav* held during 3rd to 5th Feb. 2017 organized by Department of State Fisheries. A stall was arranged with the posters of all activities of NETFISH. General public and Fishermen visited the stall and the visitors were given various leaflets. Also, distributed the handouts prepared on marine pollution and conservation



aspects. Shri. Praveen Kumar, IAS, District Collector along with JD Fisheries and fishery officials visited the stall. NETFISH videos were also played in the stall.

7.3.12 Seminar on Indigenous Traditional Knowledge in Fisheries

The Sea Club of NETFISH at St. Albert's College, Ernakulam conducted a seminar on *Indigenous Traditional Knowledge in Fisheries* on 28th February 2017. The seminar was aimed to give awareness to the Sea Club members about the diverse indigenous traditional knowledge in fisheries with regard to fish detection, wind and water currents, navigation, distress signs, medicinal values of certain fishery items etc. Indigenous traditional knowledge (ITK) in fisheries is the knowledge that accumulated or evolved over a long period of time and generations of practical experience of fishers, such as knowledge on fish habits, migratory patterns, proper timing of fishing, fish resource management, traditional fishing methods, fish behaviour etc.

The inauguration and key note address of the seminar was done by Dr. Nikita Gopal Principal Scientist, Extension, Information and Statistics

Division, CIFT, Kochi in a function presided over by Rev. Fr. Christy David Pathiala, Asst. Manager, St Alberts College, Ernakulam at the Seminar hall of the college. Dr. M. L. Joseph, Principal of the college and Dr. Joice V. Thomas, Chief Executive, NETFISH spoke on the occasion. Mr. Jose Emmanuel, Head of the Dept. of Fisheries and Aquaculture welcomed the gathering and Prof. Bijoy. V. M. proposed the vote of thanks. Shri. Santhosh N.K., State Coordinator, NETFISH, Dr. Afsal V.V., Research Assistant, NETFISH, Faculty members of the Department of Fisheries and Aquaculture and over seventy students of the Sea Club attended the seminar.

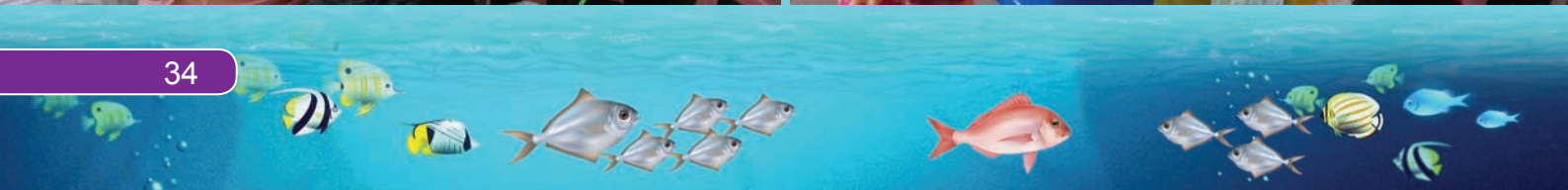
7.3.13 Distribution of Fishermen Aid materials

Utilizing the Fishermen aid fund, materials such as Stainless Steel trays, plastic dust bins, plastic crates, Plastic basket, plastic shovel etc were purchased in different regions and distributed to the beneficiaries to promote hygienic methods while handling fish and ice. Also in some of the regions instead of the stipend money items like life jackets, plastic baskets, shovels, T-shirts, LED torch lights, plastic sheets etc. were given to the beneficiaries.





- Plastic baskets and Plastic shovels were distributed to the boat owners at Kailaghata Fishermen Association and Freserganj Fishermen Association, Jettyghat, Freserganj, South 24 Parganas and at Tajpur- Japdah Matsya Khuti at Purba Medinipur to popularize use of Plastic baskets and Plastic shovels among the fishers as well as eradicate abuse of bamboo baskets and iron shovels for handling fish in the fishing harbours and in the fishing boats.
- In Odisha 559 round plastic baskets were provided in Paradeep harbour under fishermen aid programme to completely eradicate the bamboo basket from the fishing vessels.
- In Pazhaiyar FH 250 nos. of plastic shovels were given to fishing vessels to avoid using iron shovel to carry the ice and fish.
- In Tamilnadu south too, 250 plastic shovels were given in Tuticorin, Tharuvaikulam and Chinnamuttom harbours for improving hygiene.
- At Mangrol Fishing harbour 50 plastic dust bins were distributed to Fishermen community to keep fishing harbour clean.
- NETFISH has distributed 100 numbers of plastic baskets at Punnapra Fish Landing Centre, 50 nos. at Chellanam Harbour and 50 nos. at Sakthikulangara harbour and 50 nos. at Neendakara harbour.
- In Puthiyappa harbour 15 trolleys were distributed to harbour workers unions to improve hygiene while transporting fish and ice inside the harbour.
- In Andhra Pradesh 200 PVC shovels were distributed to 200 fishing vessels in Kakinada.
- In Karnataka 35 insulated fish boxes were distributed to traditional crafts/small OBMs in different harbours





7.3.14 Installation of Sign boards in harbours

NETFISH has installed new sign boards at Munambam and Chettuva fishing harbours showing the dos and don'ts in fishing harbours and fishing boats.

7.3.15 Exposure Visit

On 4th December 2016 an exposure visit to Vanakbara fishing harbour was conducted for the students of College of Fisheries, Uttarakhand.





7.3.16 Trainer’s Training Programmes

HACCP Training: From 16th to 18th June 2016, NETFISH team along with MPEDA officials attended 3 days training programme organized by MPEDA on Sea food HACCP at MPEDA office, Kochi.

Training programme on Value Added Fishery Products: NETFISH team comprising State Co-ordinators and Research Assistants had attended three days training programme on “Value Added Fishery Products” at National Institute of Fisheries Post Harvest Technology and Training (NIFPHATT), Kochi from 30th September to 3rd October 2016. The trainees could see the method of processing of fish for the preparation of keema and also visited

the cold store and canning plant of NIFPHATT. Shri. Sreekumar, Course Co-ordinator and Smt. Remya, Technologist with the help of supporting staff handled the demonstration sessions on preparation of value added products. During the 3 days training programme, the trainees were taught to prepare ready to eat products like fish pickle, fish curry, fish pollichadhu, dried prawn masala fry and dried prawn chutney, breaded and battered products like fish cutlet and fish finger, ready to cook products like fish wafer, etc. in a hygienic way without the usage of any additives. In the future awareness programmes of NETFISH, hygienic production of value added fishery products will be promoted and the interested fishers especially fisherwomen will be given proper guidance and training.



7.3.17 Association with activities organized by other departments/institutes

A. A 4 days Skill development programme on “Fishery Management and Fish Net Making and Repairing” was organized from 8th September, 2016 at Central Fishermen’s Cooperative Society Ltd, Diamond Harbour, South 24 Parganas by the Science Association of Bengal and Institute of Engineers (India). Around 50 fisherwomen attended the programme and hands on training were conducted on net making and repairing. NETFISH State Coordinator highlighted on fisheries management, importance of net making and repairing as livelihood for the fisher women and MPEDA’s scheme etc.



- B. On 15th January’17 NETFISH State Coordinator had attended the Sea Food Festival and Ganga Utsav at Digha mohana, Purba Medinipur organized by Digha Fishermen & Fish Traders Association. Shri. Shuvendu Adhikari, Hon’ble Minister of Transport, Govt. of West Bengal, Shri. D. Das Matsya Karmadhakshya Zilla Parishad Purbs Medinipur, Shri. Ramkrishna Sardaer, ADF (Marine), Shri. Ujjwal Kr. Sar, Chairman, Secretary & other member of DFTFA and about 1000 fishermen and Boat owners attended the programme. SCO highlighted on fish quality and significances of using PVC baskets and PVC shovels in the fishing boats and fish markets to handle the fishes and also distributed 100 nos. of Plastic baskets and 80 PVC shovels to the boat owners in the programme.
- C. On 28th February’17 NETFISH State Coordinator had attended the celebration of National Science Day at Jadavpur University, Kolkata organized by The Science Association of Bengal. As part

of the event the SAB honoured Shri. Atanu Ray, State Coordinator, NETFISH with Dr. Ashima Chattapadhyia Memorable Award 2017 and memento for his dedicated contribution towards popularization of science and technology in society and for development in fisheries by working at the grass root level. Besides, they have felicitated other scientists, doctors and researchers including Shri. Bimal Kr. Sengupta and Shri. Tarun Kr. Giri for their activities in the field of development of science.

- D. On 23rd November’16, 21st February 2017 & 30th March 2017, SCO West Bengal had attended three programmes on “*Marine Fisheries Training on Safety at Sea and Communication Development, Boat building, use of Fishing Gears etc*” at Contai, Tajpur & Kejuri in Purba Medinipur. ADF (Marine), DFO (marine) & other officials and fishers from different landing and dry fish khuties attended the programmes. SCO delivered a talk on Sustainable marine fish production, judicious exploitation, development of exports of marine products and ban on using formalin & other harmful chemicals in dry fish and other fish products. Also a documentary film on “Safety of sea” was shown in the programme.
- E. On 3rd Feb’17 SCO West Bengal attended a programme on “Multi-Stakeholder Dialogue on Hilsa & River Management” organized by International Water Association (IWA) at Kakdwip Fishing Harbour during which the SCO explained about the present status of marine fisheries and the measures to be taken to conserve the marine fisheries with special reference to Hilsa. On 27th & 28th March’17 SCO West Bengal attended an Expert Group Workshop on “Platform

for Consultation on Hilsa Conservation and livelihoods” organized by International Water Association (IWA) at Kathmandu, Nepal. IWA is implementing a project: ‘Sustainable Livelihoods for Hilsa – dependent Communities across India Bangladesh Rivers capes’ towards strengthening of livelihoods and economic benefits for Hilsa dependent communities. Different stakeholders, including policymakers, research community, scientists, Govt. officials, NGOs and conservationists participated in the workshop. SCO had given a presentation on development of Hilsa fisheries in West Bengal and alternative livelihoods to the Hilsa dependent fishers and also discussed in open forum towards developing a platform on reconciling Hilsa conservation and livelihoods.

- F. On 15.12.2016 SCO Andhra Pradesh attended the Kakinada Fishing Harbour Management Committee (FHMC) meeting along with AD MPEDA, discussed the issues and decided to form Harbour Management Society. DD Fisheries asked for MOA of Munambam fishing harbour for the knowledge. Photo copies of Munambam society are submitted to the Dept of fisheries as a reference for the formation of Kakinada Fishing harbour management society.
- G. On 08.06.2016 SCO Andhra Pradesh attended the meeting convened by the Dept of Fisheries, Guntur at Nizampatnam. Around 70 fishermen including Boat owners and crew attended the meeting. SCO discussed about the hygiene standards required for the fishing harbour and the

present condition of the harbour and explained the need for collection of toll by the FHMC to meet the expenditure of regular cleaning activities. The Fishermen and Harbour schemes of MPEDA was explained to the fishers by the AD, SRO Bhimavaram.

- H. On 13.04.16 SCO Andhra Pradesh attended the “Workshop on Deep Sea Marine Fishing Policy” organized by CMFRI. SCO briefed on improvements by NETFISH activities and topics related to the fishery conservation and sustainable fishing. Discussion were made for selective fishing, amending APMFR Act, mesh size and shape and the regulation in the number of fishing vessels and HP of engine.
- I. On 29.04.2016 SCO Andhra Pradesh participated in the meeting conducted by JD Fisheries for designing of Skill development programmes for Tuna fishing. The program was arranged combined with HRDI and Dept of Fisheries at CMFRI Visakhapatnam. NETFISH suggested designing the programmes to the boat crew for the skill development of onboard handling of Tuna fish for Sashimi grade.
- J. On 15th July 2016 SCO TamilNadu North gave lecture to the trawl boat drivers and owners at Kasimedu on Harbour management & hygienic handling in a meeting convened by AD of Fisheries and on 26th July 2016 a lecture on MPEDA schemes was delivered to the fisherfolk from 25 fishing villages in and around Sirkali taluk, in a programme organized by the state fisheries department along with Reliance Foundation.





- K. On 6.05.2016, SCO Tamil Nadu South attended the NABARD sponsored programme on “Ornamental Fish Culture” at CRS-DeRose Society, Tuticorin and delivered valedictory note & lecture on marine ornamental fishes.
- L. On 1.07.2016, SCO Tamil Nadu South delivered a special lecture on ‘Sustainable Fishing’ to boat drivers of Kanyakumari District in the training programme on ‘Seamanship and Navigation, Marine Electronic Equipments and Maintenance of Engine’ conducted by TAFCOFED and sponsored by NFDB and Govt. of Tamilnadu.
- M. On 13.11.2016, a presentation on *Prospects of Seafood Exports, Value Added Fish Products and Self Employment Opportunities* was delivered by the SCO Tamil Nadu South in the one day self employment training program organized by Puthiya Thalaimurai Foundation - Forum for Micro Enterprises and NTTF at SPIC Nagar, Tuticorin.
- N. SCO Kerala North participated in a seminar on 3-11-2016 arranged by the State Fisheries Department at Vypeen, Ernakulam and handled a session on the implementation of the Minimum Legal Size (MLS) in the fisheries sector. Over 100 fishermen participated in the seminar.
- O. SCO Kerala North took part in *Chingam 1st Karshaka Dinam* celebration on 17.8.2016 organized by the Department of Agriculture and handled classes on fish farming in households at Purapuzha and Karimkunnam Panchayats. Around 60 and 70 fish farmers attended the class at Purapuzha and Karimkunnam Panchayats respectively.
- P. NETFISH CE and SCO Kerala North attended the southern zonal work shop on the KMFRA amendments organized by FIRMA, Dept. of Fisheries at Kollam on 20.1.2017 and suggestions were given in the discussions. In continuation to





this, CE and SCO attended the Kerala State level workshop on the KMFRA amendments organized by Dept. of Fisheries at Thiruvananthapuram on 14.2.2017 in the presence of Smt. J. Mercikkutty Amma, Hon'ble Fisheries Minister Govt .of Kerala and NETFISH views on the matter were given in the discussions.

- Q. SCO Kerala North attended the one day work shop conducted by the Kerala State Traditional Fishermen Samithi at CMFRI, Kochi on 10.1.2017 regarding the challenges in Kerala marine fisheries sector and the way forward. The SCO talked about the issues of destructive fishing and juvenile fishing practices by a section of the traditional sector and the need to bring in uniformity and synergy in conservation efforts by all stakeholders.
- R. SCO Karnataka along with HDCs assisted SRO, MPEDA in popularization and MPEDA scheme implementation related to fishers. More than 95 applications for registration of fishing vessels received during the campaign, which was highest

in the history of MPEDA SRO, Mangalore in a single financial year.

- S. On 22nd October 2016 SCO, Gujarat participated in a workshop on Scoping Tuna fisheries Development (BOBP) at Veraval jointly organized with CMFRI, Veraval and put views on tuna fisheries development in Gujarat and its further scope.

8. Specific Outcomes Achieved During the Year

8.1 WEST BENGAL

- The old practice of dragging ice blocks over mud or on the floor of jetty for loading in to the fishing vessels, at Freserganj, Deshapran, Namkhana and Kakdwip landing sites were changed and now the block of ice are hanged by rope & pole or carries on the head by the porters.
- In Deshapran Fishing harbour, Digha Mohana the earlier practice of transporting fish from harbour/auction market to processing plants in Kolkata as well as to local markets in open crates or bamboo baskets were changed to insulated fish box and subsequently the fishers are getting better price.
- Plastic crates and insulated fish boxes are being used instead of bamboo baskets to transfer fish from Namkhana LC, Frserganj FH, Kakdwip FH, Deshapran FH Digha mohana, Raidighi, Sulatanpur FH to the auction market or to the processing plant.
- In Sankarpur FH, Deshapran FH, Raidighi LC, Namkhana LC, Kakdwip FH, Shoula LC, instead



- of manual crushing, ice crushing machines are used and hence crushed ice is being used in boats which minimized the damage of fishes occurring by sharp edged ice pieces. Due to this improved icing practice fish spoilage has reduced and the fishers are getting better price for their catch.
- The fishers in Deshapran and Sankarpur harbours have started using rubber gloves while handling ice blocks and hence cross contamination has been minimized.
 - Majority of the fishing boats in Kakdwip FH, Freserganj FH, Namkhana LC, Raidighi IC, Sultanpur FH are now using plastic baskets instead of bamboo baskets for handling of fish onboard or at landing point which can minimize the damage of fish as well as reduce the cross contamination.
 - After conducting onboard and fish quality training programmes fishermen of Sankarpur FH, Deshapran FH, Raidighi LC, Sulatnpur FH, Raidighi LC, Freserganj FH are following chill killing and cold chain system in their fishing vessels as well as in the landing centre until it reach to the auction market or to the processing plant.
 - Poly sheets/ tarpaulin sheets are used to cover the open crates to avoid the possible chances of contamination through dust and dirt while transporting fish from Namkhana LC, Frserganj FH, Kakdwip FH, Deshapran FH, Digha mohana landing centre/fishing harbour to market or processing plant.
 - In Akshaynagar, Gangasagar, Kakdwip FH, Sultanpur FH the practice of sorting the catch on mud or sand were shifted to polysheet to avoid contamination from dirt and mud.
 - In Sankarpur FH, Deshapran FH, Raidighi LC, Sulatnpur FH, Raidighi LC, Freserganj FH, most of the boat owners as well as fishermen associations have stopped using iron shovels and procured PVC shovels for proper handling of fish onboard and at landing points.
 - After conducting onboard training programmes boat owners and fishermen in Namkhana LC, Sultanpur FH, Freserganj FH, stopped use of thermocol boxes for preserving fish at onboard and are using insulated fish boxes in their small mechanized boat as well as in non mechanized fishing boats.
 - In Sankarpur FH, Deshapran FH, Raidighi LC, Sulatnpur FH, Raidighi LC, Freserganj FH fishers are now carrying enough ice onboard and are using adequate ice to preserve fish while transportation to the market.
 - Insulated fish boxes are being used in fishing vessels at Sankarpur FH, Deshapran FH, Raidighi LC, Sulatnpur FH, Raidighi LC, Freserganj FH for preserving their catch and fishermen are fetching better price.
 - Fishers operating from Sankarpur FH, Deshapran FH, Raidighi LC, Shoula, Namkhana LC, Raidighi LC are now segregating their catch on the deck and packed species wise in crates for better quality.
 - In West Bengal, 61 days fishing ban period from 15th April to 14th June was strictly observed during the year.
 - After conducting series of awareness programmes on conservation fishermen in Sankarpur, Deshapran, Digha are aware about marine turtles and they have started releasing the turtles back to sea, if caught in net.



- After demonstration project of NETFISH on Mud Crab, fishers of Namkhana, Freserganj, Sagar are now engaged in crab fattening in their kitchen ponds and are fetching good price.
- No harmful chemicals/pesticides are used in dry fish produced at Amarabati, Uttar Bakkhali, Kakdwip, Lakhipur, Jaldah, Tajpur, New Jaldah, Dadanpatrabar and Chewasuli.
- In Amarabati, Uttar Bakkhali, Kakdwip, Lakhipur, Jaldah, Tajpur, New Jaldah, Dadanpatrabar and Chewasuli fish drying is done on net/mat or on racks to avoid contamination from dirt, mud and sand.
- After distributing life jackets in fishing boats, now the fishers of Sankarpur FH, Deshapran FH, Raidighi LC, Sulatnpur FH, Raidighi LC, Freserganj FH fishermen are keeping adequate no. of Life jackets in boats. The State Fisheries has also taken initiative to implement the same in MFR act.

8.2 ODISHA

- In Paradeep, Bahabalapur and Balaramgadi 90 % of bamboo baskets in fishing vessels are now replaced with plastic baskets.
- Transportation of ice in trucks is now improved from open to fully covered transportation in Paradeep, Bahabalapur and Balaramgadi.
- Trawler owners and their association in Paradeep, Bahabalapur and Balaramgadi now understand the importance of conservation and hence opine to increase the fishing ban period for more than 60 days.
- The Paradeep Harbour Management Society is taking more interest in sanitation and hygiene of the auction hall and surrounding areas and thus has appointed 6 new cleaning workers, to whom NETFISH has provided training on cleaning methods and schedule and also free uniforms. Also the harbour management society provided 15 dustbins for safe disposal of wastes in the harbour.
- Due to NETFISH initiative, the tea stalls and pan shops around the auction hall is shifted to distance place.
- Because of the increased awareness on fish quality maintenance, the fishing vessel owners in Paradeep and Bahabalapur are now coming in more numbers to avail fish hold subsidy of MPEDA.
- In Paradeep fishing vessels have started using insulated plastic wire ropes instead of steel wire ropes and as a result of this greasing activity inside the jetty have reduced considerably.
- Now, single day fishing boats and country crafts are taking ice, while going for fishing.
- Drying fish on fishing vessels is stopped at Paradeep.
- In Bahabalapur & Balaramgadi the Trawler owners are now cleaning their godown regularly using Teepol (liquid detergent) & Hypochlorite to maintain good sanitary and hygienic condition.
- The Trawlers in Bahabalapur & Balaramgadi now collect ice directly from ice crushers thus reducing cross contamination.
- In Bahabalapur all fishing vessels are cleaned regularly before and after fishing and the auction area at Bahabalapur are maintained hygienically.
- In Chilka, fishermen are carrying enough ice while going for fishing and using insulated Fish Boxes(IFB) for preservation of their catch.





- Fisherfolk of Chilka has started their own trading through fishermen co-operative society and are getting better price due to increase in quality.

8.3 ANDHRA PRADESH

- NETFISH coordinated with the ice factory owners and ice suppliers in Nizampatnam for their visit to Muttam harbour, after which the ice factory owners decided to keep tube type conveyor system in the harbour. Two ice factory owners have made the facility available to the boat owners for faster and hygienic ice loading in the harbour.
- As a result of generating awareness on availing MPEDA Subsidy schemes online, the boat owners are applying online to avail advance approvals for fish hold subsidy schemes. Around 12 boat owners benefited with MPEDA fish hold subsidy schemes and availed the benefit during the period.
- Bamboo baskets are completely removed from Visakhapatnam, Kakinada, Machilipatnam and Nizampatnam and nearby landing centers.
- 75% of rusted iron shovels are replaced with fiber shovels at Visakhapatnam and Kakinada fishing harbours.
- Ice handling practices have improved at Kakinada fishing harbour and crushed ice is loaded directly to the fishing vessel to avoid crushing on jetty.
- Tuna fish handling was improved in all the fishing harbours and nearby landing center. Now most of them are using plastic sheets and crates for keeping tuna fish.
- Most of the motorized crafts are bringing catch with icing in the ratio 1:1. Ice cured tuna landings are observed in fish landing centers like Pudimadaka and Mulapeta Kakinada. Regular cleaning of fish holds are also observed in motorized and mechanized fishing boats.
- Strict fishing ban was observed in all along the coast for 61 days.
- Use of separate mesh size codends for fish and shrimp are familiarized and the fishing vessels are now carrying different kinds of fishing nets as selective nets. The mid pelagic cod end mesh size was increased to 30-40mm from 23mm.
- More than 60% of trawlers are converted to gill netting for catching of fish in all the fishing harbours.
- In Kakinada and Visakhapatnam 40% of the trawling boats are converted to hook and line for Tuna fishing. Boat owners are approaching MPEDA for availing subsidy for hook and line.
- 80% of fishing boats are now using combination and concealed wire ropes instead of open metal wires for connecting trawl nets. Around 100 boats are using platina ropes without any steel. The greasing activity inside the fishing harbour is reduced. Mechanized boat owners associations are given representations to Dept. of Fisheries for providing subsidy to upgrade to platina rope from combination rope.

- Due to the preprocessing training programmes, hand washing practice was improved and the workers are aware on hygiene and sanitation.
- The dry fishers of Odarevu fish landing center are using rack drying system with net covers above. Dry fishers of Kakinada and Nizampatnam are now using sheets for drying fish and also covering with fly proof net above. They are constructing their own cement fish drying platforms.
- Now most of the boats are registering and renewing registration with MPEDA. As a result of awareness generated on availing MPEDA subsidy schemes online, the boat owners are applying online to avail advance approvals for fish hold subsidy schemes.

8.4 TAMIL NADU NORTH

- Bamboo Basket has been completely removed and only plastic baskets are being used for handling of fish at Kasimedu, Cuddalore, Annankovil, Mudasalodai, Pazhaiyar, Nagapattinam and Nagoor fish landing sites.
- Hygienic conditions have improved while preparing dry fish at Kasimedu, Cuddalore, Annankovil, Mudasalodai, Pazhaiyar, Nagapattinam and Nagoor areas.
- Dumping of by-catch/ trash fish in jetties has completely stopped in Kasimedu, Pondyicherry, Cuddalore and Karaikal harbours.
- Fisher folks are icing the catch in 1:1 ratio at Kasimedu, Pondyicherry, Cuddalore, Annankovil, Mudasalodai, Karaikal, Nagapattinam and Nagoor fish landing sites.
- In Kasimedu, Pondyicherry, Cuddalore, Annankovil, Mudasalodai, Karaikal,

Nagapattinam and Nagoor fish landing sites the boat owner's association is taking initiation to clean the harbour premises.

- In Kasimedu, Mudasalodai and Karaikal the Fisheries department is strictly following the norms for new boat registration to control fishing pressure.
- In Kasimedu, Annankovil and Karaikal the fisher's association has taken initiation to open the toilet facility in the Fishing harbour.
- Mechanized boats in Pondicherry FH are using detergent and bleaching powder to clean their boats on weekly basis.
- Hygienic handling of fishes onboard has been improved in all the selected areas.
- Harbour management committee has been formed in Annankovil landing centre, Mudasalodai FLC, Pazhaiyar harbour and Nagoor landing centre. The first initiation at Pazhaiyar was to appoint two people for auction hall cleaning on daily basis.

8.5 TAMIL NADU SOUTH

- Handling of Ice has improved in the selected harbours. In Chinnamuttom the fishers have started rejecting poor quality ice. In Mandapam ice crushing is done on tarpaulin sheets and clean shovels are being used for handling ice.
- In Tuticorin 90 % of baskets used are of plastic type.
- Fishing vessels in Tuticorin are keeping the fish holds clean.
- The Tuticorin harbour is cleaned on a daily basis.





- Purse-seining activity in Tuticorin and Mandapam has reduced considerably as official vigilance is increased.
- The percentage of boats doing cleaning before and after fishing has increased in Tuticorin, Chinnamuttom and Colachel.
- In Tuticorin, Chinnamuttom, the Bottom trawlers are willing to use square mesh at the cod end on trail basis and subsequently ready to adopt the practice.
- In Chinnamuttom an increase in mesh size of fishing nets can be observed.
- Juvenile fishing has been regulated to some extent in Chinnamuttom.
- Personal hygienic practices increased in most of the harbours and gloves are being used while handling fishes.
- Fishers are releasing back to sea the undersized/ gravid lobsters/crabs accidentally caught while fishing.
- Fishermen in Gulf of Mannar region have shown consent to divert from bottom trawling to Gill netting and Hook and Line if appropriate steps are taken.
- Pair trawling practiced in Palk Bay region has reduced.
- In Colachel and Chinnamuttom, Fishing during the ban season has decreased due to demarcation of colour between East Coast/West Coast boats.
- In Mandapam area a considerable reduction in blast fishing and turtle poaching activity can be observed.

8.6 KERALA SOUTH

- In Thoppumpady the hygiene at harbour has improved. An improvement in handling of block ice is observed after making a conveyor ice crusher available outside the auction hall. The ice blocks are loaded directly from the vehicle to the ice crusher.
- In Chellanam bamboo baskets are replaced by plastic baskets for fish handling.
- The damaged auction hall at Thottappally harbour has been repaired and the fishers are making use of the upgraded auction hall.
- In Sakthikulangara peeling work done inside the harbour has been completely stopped by relocating the workers to the nearby Common pre-processing facility.
- As a result of regular follow-up by NETFISH SCO, the proposal to upgrade Neendakara harbour has been submitted by HED to MPEDA.
- In Vizhinjam, a marginal improvement is observed among fishers by avoiding mixing sand with fish.

8.7 KERALA NORTH

- In Munambam the fishing harbour management society has constructed a new crate storing shed to stop the practice of keeping empty crates in harbour premises.
- The use of carry bags less than 50 microns is banned inside Munambam harbour.
- Workers of one more PPC in Munambam region has started using complete set of protective gears on duty.



- Juvenile fish landing was brought under control due to NETFISH interventions, media reports and subsequent authority actions.
- The open area in Chettuva harbour, adjacent to the net mending hall, which was misused for open urination, was converted into a banana plantation area thereby stopping the misuse of the area.
- In Puthiyappa the practice of transporting fish catch by the way of head load has been significantly reduced and the workers have shifted to using trolleys for easy and hygienic transportation of the landed fish inside the harbour.
- More numbers of workers of the selected harbours are using rubber gloves, shoes and plastic shovels for the hygienic fish handling.
- NETFISH sensitized the fishermen and other stake holders on the need of exerting more management measures for the sustainable fishing. The workshop on 'Effective implementation of Minimum Legal Size in Kerala' organized by NETFISH has triggered the conduction of more workshops, meetings etc. by fisheries department, institutes and stake holder groups in the state. All these efforts have helped to change the mind set of stake holders towards responsible fishing.
- In Malpe harbour, parking area has been demarcated for different vehicles and thus the vehicles have stopped parking all around the harbour.
- Signboards depicting hygienic and sanitation procedures in harbours were kept in Gangolli harbour and as a result the cleaning schedule is properly followed and monitored.
- In Bhatkal parking of 2 wheelers inside the auction hall is stopped and the auction hall is being utilized by stakeholders solely for auction.
- In Honnavar, Tadri and Karwar too, the stakeholders have started using the auction hall properly.
- The fishers in Cutbona have started using trolleys and the plastic crates used are being arranged properly after use.
- In Malim earlier very less numbers of trolleys were used for shifting fish crates from one place to another. Now the situation has improved and more number of trolleys are being used there.

8.8 KARNATAKA & GOA

- Regular cleaning schedule is followed in Mangalore and Malpe harbours by which the hygiene has improved.

8.9 MAHARASHTRA

- An increase in mesh size of trawl nets used by fishers in Harne & Ratnagiri can be observed. In Harne, the mesh size of commonly used trawl nets was 18 mm to 22 mm which is now increased to 25 mm to 40 mm.
- To avoid the contact of ice with unclean floor and to promote hygienic handling of ice, NETFISH provided SS trays in Sassoon dock harbour and the fishers are now using it.



- Realizing the importance of fishing ban in conservation of marine resources, the fishers in Palghar, Thane and Mumbai self declared 93 days fishing ban from 15th May to 15th August. This is the third time they are observing a prolonged ban period by self regulation.
- Increased use of plastic baskets for fish handling instead of bamboo baskets can be observed in all the selected landing sites in Maharashtra where NETFISH has conducted regular awareness programmes.
- The personal hygiene of pre-processing and processing workers has improved.
- Improvements in hygiene and sanitary conditions on fishing vessels are observed in all selected areas. Using hand gloves during handling of fish, cleaning of deck, fish hold and baskets/ crates before and after fishing etc. are the major changes observed.
- The practice of heaping up fish directly on floor at landing sites have changed considerably in places like Sassoon dock where the raw material is kept presently on plastic sheets and cleaned cemented platforms for auctioning.
- The earlier practice of drying fish on bare soil or unclean surfaces has changed in most of the regions and the fishers are now using plastic sheets or cemented platforms for keeping fish for drying. Some fishers are demanding for solar dryers with backup system to take production on large scale basis.

8.10 GUJARAT

- A shift from open transportation of fishes to covered transportation in insulated/covered vehicles has occurred in Veraval, Porbandar and Mangrol.
- Handling of fishes in almost all the harbours have improved up to a commendable level.
- It is noticed that majority of fishermen in Veraval, Mangrol, Porbandar, Vanakbara are cleaning their fishing vessel before and after their fishing trip.
- Personal hygiene of Pre-processing & Processing have improved in all the centres where NETFISH had intervened.
- An increase in mesh size of trawl nets up to 30-35 mm can be observed in all the selected regions.
- The quality of dryfish produced at Umarsadi, Nargol, Umargam have improved and hence are getting better price.
- In Veraval harbour, earlier ice crushing activity was done on floor before loading in to fishing vessel. Now a few hygienic ice crushing facilities were installed by Sagarputra Foundation by which boat owners are loading the crushed ice directly from the truck to fishing vessels thus avoiding contamination from floor. The boat owners are paying extra money to truck as waiting charge till the loading is over.
- NETFISH has provided 50 nos. of dustbins at Mangrol harbour and the fishers are making use of it and thus the harbour is kept out of wastes.



9. Member NGOs of NETFISH for The Year 2016-17

1. **The Science Association of Bengal (SAB)**, Diamond Harbour Road, 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**, Salai Road, Kurusady, Nagercoil, Kanyakumari District, Tamil Nadu.
8. **Village Resource Centre of MSSRF**, Iraiyrasu Valagam, 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)**, 69, Vendakottai road, 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)**, Maliya, Hatina District, Junagadh, Veraval, Gujarat.
23. **Chamunda Vikas Trust (CVT)**, Bhalpara Main Raod, Veraval-362268, Gujarat.
24. **Shivam Education & Charitable Trust (SECT)**, Pipaliya Nagar, Madhi Raod, Junagadh, Gujarat.



10. Audit Reports For The Year 2016-17

ROSHAN THOMAS & Co. CHARTERED ACCOUNTANTS

Partners :

CA. ROSHAN THOMAS
ACA, DISA (ICA)

CA. SHARON LISS AUGUSTINE
B.com, ACA


Address :

1st Floor, Srivari Complex
39/2402, M.B. Menon Road
Kochi - 682 016
Kerala

Website: www.rtnco.co.in | email: roshanthomasandco@gmail.com | Tel: 0484-2365485, 9497325485, 9745421740

INDEPENDENT AUDITOR'S REPORT

To

The Members

NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH)

We have audited the attached Balance Sheet of NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH) as at March 31, 2017 also the Income and Expenditure Account and Receipts and Payments Account for the year then ended, and a summary of significant accounting policies and other explanatory information.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation of the financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with Standards on auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit includes performing procedures to obtain audit evidence about the amounts and disclosure in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risk of material misstatement of the financial statement, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the company's preparation and fair presentation of the financial statement in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by the management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.





NETFISH - MPEDA

Opinion

In our opinion and to the best of our information and according to the explanation given to us, the financial statement give a true and fair view in accordance with the accounting principles generally accepted in India.

- (a) in case of the Balance Sheet, of the state of affairs of the Society as at 31st March 2017
- (b) in the case of the Income and Expenditure Account of the Excess of Expenditure over Income for the year ended on that date and
- (c) in the case of Receipts and Payment Account of the receipts and payments for the year ended on that date

Place : Kochi

Date : 27-06-2017

For ROSHAN THOMAS & Co
CHARTERED ACCOUNTANTS
FRN - 0136115

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 31-03-2017

LIABILITIES	Sch.	As on 31.03.17	As on 31.03.16
CAPITAL FUND			
Opening balance		1789132.56	3765950.73
Add: Fund received from MPEDA during the year		196000.00	20000000.00
Less: Excess of Expenditure over income for the year		-18033458.87	-21976818.41
		3355673.69	1789132.32
UNDP PROJECT FUND			
UNDP Fund received from MPEDA		16175000.00	13500000.00
Less: Project Advance		.00	-40801.00
Add: Project Expenses Payable		25928.00	408667.00
Less: Amount utilised towards Mangrove Crab Project, Mumbai		-14917274.55	-13272976.87
		1283653.45	594889.13
TOTAL		4639327.14	2384021.45
ASSETS			
FIXED ASSETS	1		
Opening WDV		232640.94	319850.72
Less: Depreciation		-59766.00	-113946.00
Closing WDV		172874.94	205904.73
CURRENT ASSETS, LOANS AND ADVANCES			
Cash & Bank Balance			
Cash in hand			-
Balance with banks	2	5089223.17	2821236.72
LOANS & ADVANCES			
Advance to Staff		15347.00	56933.00
Tour Advances		68367.00	
Salary & TA Claim Receivable from MPEDA		623950.00	560264.00
		5796887.17	3438433.72
CURRENT LIABILITIES AND PROVISIONS			
OTHER LIABILITIES & PROVISIONS			
Expenses Payable	3	130569.97	161840.00
Salary Payable	4	1188365.00	1086977.00
Audit Fee Payable		11500.00	11500.00
		1330434.97	1260317.00
NET CURRENT ASSETS		4466452.20	2178116.72
TOTAL		4639327.14	2384021.45

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

(Chief Executive Officer)

(Treasurer)

(Secretary)



K. S. Thomas
(Auditor)

NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH)

KOCHI (REG. NO ER 509/06)

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2017

		For the year ended 31-03-2017	For the year ended 31-03-2016
INCOME			
Miscellaneous Income			
Application Fee			10 000.00
Membership Fee		500.00	
Renewal Fee		1 100.00	15 300.00
TOTAL		1 100.00	15 300.00
EXPENDITURE			
Extension Activities	5	98 59 733.00	143 15 172.00
Employee Cost	6		
Salary-Chief Executive		7 28 991.00	6 96 561.00
Salary - State Co-ordinators		46 40 058.00	43 33 673.00
Salary - Research Assistant		6 55 105.00	4 92 500.00
Salary - Staff		4 31 518.00	4 04 064.00
Employer Contribution to PF		3 71 724.00	3 49 371.00
		68 27 396.00	62 76 169.00
Administrative Expenses	7	12 87 663.87	12 86 831.41
Depreciation	1	59 766.00	1 13 946.00
TOTAL		180 34 558.87	219 92 118.41
Excess of Expenditure over Income		-180 33 458.87	-219 76 818.41

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

(Chief Executive Officer)

(Treasurer)

(Secretary)

(Auditor)





NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH)

KOCHI (REG. NO ER 509/06)

RECEIPTS & PAYMENT ACCOUNT FOR THE YEAR ENDED 31.03.2017

Receipts	(Rs.)	Payments	(Rs.)
Opening Balance - 01-04-2016		Payments for Extension Activities	
Cash	.00	Training Programmes	91 13 787.00
Bank Balance	28 21 236.72	Other Projects	380774.00
		Travelling For Extension Training Staff	7 07 172.00
Fund Received From MPEDA	1 96 00 000.00		
Funds Received From UNDP	26 75 000.00	UNDP Project	19 86 235.68
Other Income	1 100.00		
		Payment to Employees	73 36 455.00
Salary, TA to HDC Trainees reimbursed (MPEDA A/c)	66 52 699.00	Salary, TA to HDC Trainees paid (MPEDA A/c)	61 17 221.00
		Establishment and Other Items	13 07 650.90
		Fixed Assets Purchased	26 736.00
		Staff Advances (incl. Tour Advances)	26 781.00
		Closing Balance - 31-03-2017	
		Cash	.00
		Bank Balance	50 89 223.17
	317 50 035.72		317 50 035.75

(Chief Executive Officer)

(Treasurer)

(Secretary)




(Auditor)

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.

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 2016-17, an amount of Rs 1, 96, 00, 000 has been received from MPEDA (author/founder of the society) and the same has been credited to Capital fund.

c. During the year 2016-17, an amount of Rs 26, 75, 000 was received for executing projects on behalf of UNDP, this has been shown as a separate Fund in Balance Sheet. The details of Fund utilization is as under.

Particulars	As	During	As on
	31.03.2016	Year	31.03.2017
Undp Fund received from MPEDA	1,35,00,000	26,75,000	1,61,75,000
Project Advance	-40,801	40,801	0
Project Expense Payable	4,08,667	-3,82,739	25,928
Amount utilized Managrove Crab Project	-1,32,72,976	16,44,297	-1,49,17,274
Balance Fund in Hand	5,94,889		12,83,653

d. Travelling Expenses incurred by State Coordinators and Field Staff in connection with extension activities are classified under "Extension Activities" (Schedule 5)

e. Previous year figures have been regrouped wherever necessary.



NETFISH in News

പരിമിതമായി അംഗീകൃത പുറംതൊഴിലുറപ്പ്

കേരളത്തിലെ (കേരളം), ന്യൂനപക്ഷം. പരിമിതമായി അംഗീകൃത പുറംതൊഴിലുറപ്പ്. പരിമിതമായി അംഗീകൃത പുറംതൊഴിലുറപ്പ്. പരിമിതമായി അംഗീകൃത പുറംതൊഴിലുറപ്പ്.



രവചാരം പൂർണ്ണ പദ്ധതി, വിദ്യാലയം

ചിരവില അടയാളം നൽകി അഭിമാനം



വിദ്യാലയ പാലം (വില) വിദ്യാലയം

വിദ്യാലയ പാലം (വില) വിദ്യാലയം. വിദ്യാലയ പാലം (വില) വിദ്യാലയം. വിദ്യാലയ പാലം (വില) വിദ്യാലയം.

പരിമിതമായി അംഗീകൃത പുറംതൊഴിലുറപ്പ്



പരിമിതമായി അംഗീകൃത പുറംതൊഴിലുറപ്പ്

Meet moots penal action against juvenile fishing

FOR 44 more species. In addition to the 14 species already agreed by the government, America has agreed to include recommendations on the size of fishing vessel, horse power of engine, length of fishing net, fishing time, and replacement of juvenile fish.

Focus on hygiene at Beypore

NETFISH, an arm of the Marine Products Export Development Authority (MPEDA) along with Netfish has a seminar here on Friday to discuss the twin issues of hygiene and quality of fish.

World Oceans Day observed



World Oceans Day observed

മത്സ്യസമ്പത്ത് സംരക്ഷണത്തിനു മരൈൻ എൻവോയ്സിംഗ് ശക്തമാക്കണം: മന്ത്രി

കേരളത്തിൽ മാത്രമല്ല, മറ്റു സംസ്ഥാനങ്ങളിലും നീരിലും നടപ്പാക്കണം. കേരളത്തിൽ മാത്രമല്ല, മറ്റു സംസ്ഥാനങ്ങളിലും നീരിലും നടപ്പാക്കണം.

മത്സ്യക്കുഞ്ഞുങ്ങളെ പിടിക്കാതിരിക്കാൻ ദേശീയ നീരിലും കൊണ്ടുവരണം - മന്ത്രി രജ. മേഴ്സിക്യൂട്ടിയമ്മ

മത്സ്യക്കുഞ്ഞുങ്ങളെ പിടിക്കാതിരിക്കാൻ ദേശീയ നീരിലും കൊണ്ടുവരണം. മത്സ്യക്കുഞ്ഞുങ്ങളെ പിടിക്കാതിരിക്കാൻ ദേശീയ നീരിലും കൊണ്ടുവരണം.

New Leaflets

- Leaflet 1: GOOD QUALITY FISH FOR GOOD HEALTH
- Leaflet 2: HYGIENE & QUALITY ASSURANCE IN SEAFOOD PROCESSING UNITS
- Leaflet 3: SQUARE MESH COD ENDS FOR SUSTAINABLE FISHING
- Leaflet 4: FISH SHOULD BE WASHED IN PLenty of running potable water to remove all blood and other contaminants.
- Leaflet 5: Raw Fish should always be checked for visible parasites and cleaned with potable water.
- Leaflet 6: Fishes like Ribbon fish, Bombay duck etc. can be dried by hanging on rope (Ratt drying).
- Leaflet 7: Drying area should be covered with mesh for preventing hygienic process.
- Leaflet 8: Keep space between fish while spreading.
- Leaflet 9: Fishes like Ribbon fish, Bombay duck etc. can be dried by hanging on rope (Ratt drying).
- Leaflet 10: Drying area should be covered with mesh for preventing hygienic process.
- Leaflet 11: Fish should be washed in plenty of running potable water to remove all blood and other contaminants.
- Leaflet 12: Raw Fish should always be checked for visible parasites and cleaned with potable water.
- Leaflet 13: Fishes like Ribbon fish, Bombay duck etc. can be dried by hanging on rope (Ratt drying).
- Leaflet 14: Drying area should be covered with mesh for preventing hygienic process.
- Leaflet 15: Keep space between fish while spreading.
- Leaflet 16: Fishes like Ribbon fish, Bombay duck etc. can be dried by hanging on rope (Ratt drying).
- Leaflet 17: Drying area should be covered with mesh for preventing hygienic process.



OFFICE BEARERS 2016-17



Dr. A. Jayathilak IAS
President, NETFISH & Chairman, MPEDA



Smt. Asha C. Parameswaran
Treasurer, NETFISH & JD (QC), MPEDA



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

STATE COORDINATORS

Jignesh Visavadia, Gujarat
982 577 2085
netfishgujarat@gmail.com



Atanu Ray, West Bengal
983 046 8866
atanu.india@gmail.com

Santhosh Kadam, Maharashtra
996 728 1087
netfish.maharashtra@gmail.com



S. Mohapatra, Odisha
943 800 4106
subhrakanta.mohapatra@gmail.com

Narayana K.A, Karnataka & Goa
944 853 0798
netfishkarnataka@gmail.com



Hanumantha Rao, Andhra Pradesh
996 621 9338
manthu03@rediffmail.com

Santhosh N.K., Kerala North
965 628 5815
nksanthosh2000@gmail.com



Dr. R. Balasubramaniam, TamilNadu North
944 342 6469
coralbalu@gmail.com

Sangeetha N.R., Kerala South
949 660 4976
sangeethavaikom@gmail.com



Dr. Vinoth S. Ravindran, TamilNadu South
822 021 1770
arumugam.murugan@gmail.com

RESEARCH ASSISTANTS

Dr. Afsal V.V.
984 676 6986
vafsal@gmail.com



Neethu N.J.
994 733 1411
neethushaila23@gmail.com

ACCOUNTS

Remya K.R.
Accountant



Swapna Cleatus
Accounts Assistant



Network for Fish Quality Management and Sustainable Fishing
(A registered society under the MPEDA, Ministry of Commerce & Industry, GOI)
Vallarpadam P.O., Kochi - 682 504, Kerala, India
Ph: 0484 2100012, E-mail: netfish@mpeda.gov.in
www.netfishmpeda.org