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NETFISH-MPEDA





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

(A registered society of MPEDA)

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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), a registered society under the Marine Products Export Development Authority (MPEDA), Kochi, was formed in 2006 as per the Travancore–Cochin Literary, Scientific and Charitable Societies Registration Act, 1955. NETFISH, the extension arm of MPEDA, has been carrying out effective fisheries extension activities at grass root level, since its inception in 2007 with an aim to empower fishermen community particularly on fish quality management, conservation and sustainable fishing. Awareness programmes among fishers and other fishery stakeholders are being conducted at areas in and around selected harbours and landing centers in all the maritime states of India. Till 2015 March, more than 20,000 extension programmes of various forms were conducted by NETFISH, benefitting around 6 lakhs fishery stakeholders belonging to different groups.

NETFISH activities include awareness classes on Fish quality management conducted at fishing vessels, landing sites, fishermen villages, pre-processing centers, processing factories and fish drying areas. Awareness programmes on conservation of marine resources and sustainable fishing are organized in fishing vessels, fishing harbours and nearby places. To spread the messages more effectively among the beneficiaries, an array of special programmes like street plays, clean-up programmes, mass

communication programmes, school children programmes, medical camps, rallies etc are also conducted by NETFISH.

2. THE PRESIDENT

Ms. Leena Nair IAS, Chairman of MPEDA continued as the President of NETFISH during 2014-15.

3. THE EXECUTIVE COMMITTEE

The Executive Committee of NETFISH for the year 2014-15 was reconstituted in the 8th Annual General body Meeting held on 29th September 2014. The list of newly elected Executive Committee members is given in Table 1.

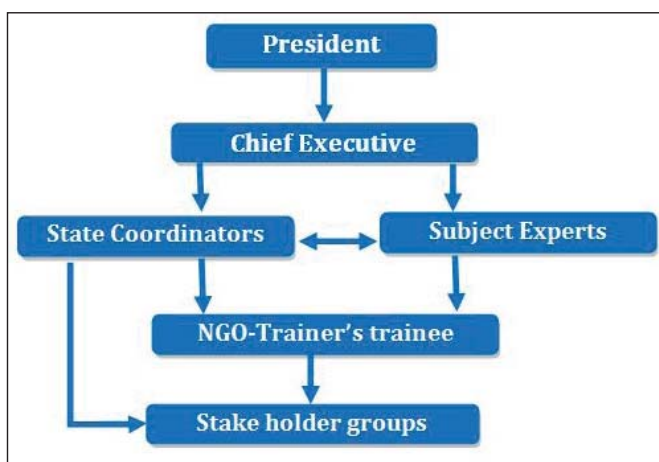
4. MEETINGS

Review meetings with NGO members were held during April 2014 by the State Coordinators along with MPEDA officials in their respective regions to discuss the achievements and short falls of activities carried out in previous years and to finalize the action plan for the new fiscal year. The 15th, 16th & 17th Executive Committee meetings of NETFISH were held on 30th April 2014, 29th September 2014 and 30th March 2015 respectively at MPEDA, Kochi. The Eighth Annual General body Meeting of NETFISH was convened on 29th September 2014 at MPEDA, Kochi. The review meeting to scrutinize the performance of all the State Coordinators, was carried out on 28th April 2014 at NETFISH HO Vallarpadam and on 30th September 2014 at MPEDA headquarters, Kochi.

Table 1. Executive Committee members of NETFISH (2014-15)

| Sl.No | Name | Address |
|-------|----------------------------|--------------------------------------|
| 1 | Ms. Leena Nair IAS | Chairman, MPEDA |
| 2 | Mr. P. Mohanasundaram | Director, MPEDA |
| 3 | Mr. N. Ramesh | Director (M), MPEDA |
| 4 | Mr. B. Sreekumar | Secretary, MPEDA |
| 5 | Mr. A. J.Tharakan | President, SEAI |
| 6 | Mr. M.C.Luther | Director, 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. V. Vivekanandan | Chief Advisor, SIFFS, Kerala |
| 12 | Mr. Gayadhar Jena | Secretary, SRMSS, Odisha |
| 13 | Mr. Venkatesh Naik | Secretary, SCODWES, Karnataka |
| 14 | Mr. M. A. Sekar | Secretary, SOHES, Tamil Nadu |
| 15 | Mr. Arjilli Dasu | Secretary, DFYWA, Andhra Pradesh |
| 16 | Mr. M. B. Boghani | Executive Director, MVS, Maharashtra |
| 17 | Mr. Tarun Kumar Giri | Secretary, SAB, West Bengal |
| 18 | Mr. M. S. H. Sheikh | President, BWRC, Gujarat |

5. ORGANOGAM



6. TARGET

A target of 2000 regular extension programmes was set for NETFISH for the year 2014-15 and the region wise target

was 200 programmes. The programme wise action plan for each region is given in the Table 2. Special programmes were organized, wherever needed, above these specified targets.

Table 2. Target set for 2014-15

| Sl. No: | Region | Programmes | | | | | |
|---------|-----------------|------------|--------------|------------|------------|------------|-------------|
| | | Quality | Conservation | Onboard | PPC/PC | Dryfish | Total |
| 1 | West Bengal | 76 | 42 | 34 | 24 | 24 | 200 |
| 2 | Odisha | 35 | 40 | 100 | 20 | 5 | 200 |
| 3 | Andhra Pradesh | 67 | 49 | 24 | 24 | 36 | 200 |
| 4 | TamilNadu-North | 75 | 75 | 10 | 10 | 30 | 200 |
| 5 | TamilNadu-South | 70 | 70 | 20 | 20 | 20 | 200 |
| 6 | Kerala -South | 35 | 45 | 12 | 108 | - | 200 |
| 7 | Kerala - North | 115 | 60 | 25 | - | - | 200 |
| 8 | Karnataka /Goa | 90 | 58 | 15 | 27 | 10 | 200 |
| 9 | Maharashtra | 48 | 64 | 24 | 28 | 36 | 200 |
| 10 | Gujarat | 82 | 52 | 10 | 41 | 15 | 200 |
| Total | | 708 | 548 | 274 | 294 | 176 | 2000 |

7. EXTENSION ACTIVITIES

NETFISH operates in all the maritime states of India, conducting grass root level training programmes for fishery stakeholders at areas in and around selected fishing harbours and landing centers in these states. In the financial year 2014-15, NETFISH conducted 2209 extension programmes (Fig.1) reaching around 80,000 beneficiaries. This included 1729 regular awareness classes (Table 3) and 480 special programmes (Table 4) such as Street play (336), medical camps (10), Clean-up programme (28), rally (8), school programme (34), door to door programme (6), Mass communication (14) and other special programmes (44). The extension tools developed by NETFISH such as posters, leaflets, documentaries and animation films were used for

delivering the messages effectively during the programmes. Awareness on MPEDA's subsidy schemes were also given during the training programmes. Important World Days such as World Oceans Day, World Fisheries Day, International Coastal Cleanup day and World Toilet Day were observed during this year by organizing wide campaigns.

Other than the training programmes, NETFISH has executed minor projects independently as well as in collaboration with other organizations. In Gujarat, Dry Fish Demo units were set up in alliance with CIFT, and training for hygienic production of dry fish were given to Self Help Groups involved in dry fish production. In Maharashtra, NETFISH along with MPEDA & RGCA is running a project on Mangrove

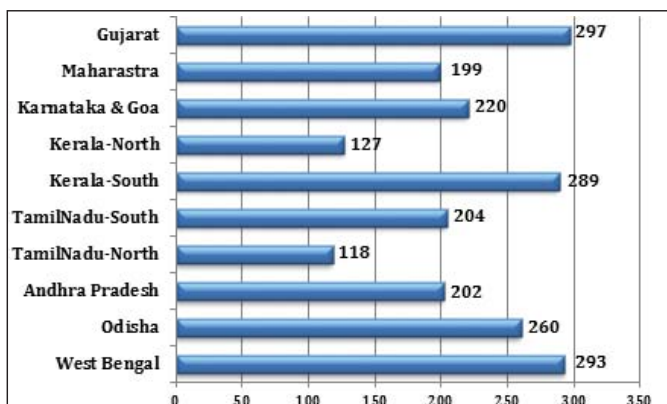


Fig. 1. Total no. of programmes conducted in each region during 2014-15

| Sl. No: | State/Region | Landing Centre - Quality | Landing Centre - Conservation | On board | Pre-processing | Processing | Dry fish | Total |
|---------|-----------------|--------------------------|-------------------------------|------------|----------------|------------|------------|-------------|
| 1 | West Bengal | 81 | 48 | 40 | 8 | 16 | 24 | 217 |
| 2 | Odisha | 43 | 38 | 132 | 11 | 0 | 6 | 230 |
| 3 | Andhra Pradesh | 70 | 34 | 0 | 11 | 0 | 28 | 143 |
| 4 | TamilNadu-North | 53 | 19 | 12 | 0 | 0 | 0 | 84 |
| 5 | TamilNadu-South | 77 | 75 | 7 | 4 | 0 | 26 | 189 |
| 6 | Kerala-South | 72 | 66 | 2 | 67 | 9 | 0 | 216 |
| 7 | Kerala-North | 35 | 33 | 0 | 12 | 0 | 4 | 84 |
| 8 | Karnataka & Goa | 114 | 43 | 9 | 14 | 0 | 0 | 180 |
| 9 | Maharashtra | 52 | 63 | 20 | 5 | 21 | 32 | 193 |
| 10 | Gujarat | 82 | 53 | 10 | 16 | 20 | 12 | 193 |
| | Total | 679 | 472 | 232 | 148 | 66 | 132 | 1729 |

Table.3 Details of Regular Programmes conducted from April 2014 to March 2015

Crab, which is funded by UNDP. NETFISH has taken up a one year project entitled "Socio economic up-gradation of SC/ST fisherwomen of SHGs in Sunderbans through mud crab farming" along with Digambarpur Angikar, a nonprofit organization in South 24 Parganas, West Bengal. In Andhra Pradesh, a one year project entitled "Model Dry fish unit for empowering fisher women through Dry fish for women collectives at Pudimadaka" has been initiated with District

Fishermen's Youth Welfare Association (DFYWA), a member NGO of NETFISH at Visakhapatnam. Three Sea Clubs, supported by NETFISH, were also formed during the year for organizing extension activities in coastal regions through student volunteers.

Apart from these activities, a series of meetings and discussions were held and certain linkages were established

with various national/state departments, institutes, agencies, etc. to solve various issues regarding fish quality management & sustainable fishing and also for the development of infrastructure facilities at harbours and landing centers. NETFISH state coordinators actively participated in many meetings, seminars and workshops conducted in their regions by other organizations and departments with regard to development in fisheries sector.

Moreover, NETFISH participated in exhibitions conducted at different provinces during which leaflets and posters depicting NETFISH activities & messages were displayed and all NETFISH documentaries & animation films were played continuously in the stalls. Also, NETFISH activities and achievements were regularly publicized in the form of articles in journals, newsletters and newspapers.

| Sl. No: | State/Region | Street-plays | Medical Camps | Clean-ups | Rally | School | Door to door | Mass communication | Other special programmes | Total |
|--------------|-----------------|--------------|---------------|-----------|----------|-----------|--------------|--------------------|--------------------------|------------|
| 1 | West Bengal | 44 | 3 | 9 | 0 | 18 | 0 | 0 | 2 | 76 |
| 2 | Odisha | 19 | 1 | 3 | 1 | 4 | 0 | 0 | 2 | 30 |
| 3 | Andhra Pradesh | 45 | 1 | 3 | 3 | 3 | 0 | 1 | 3 | 59 |
| 4 | TamilNadu-North | 27 | 0 | 1 | 0 | 2 | 0 | 0 | 4 | 34 |
| 5 | TamilNadu-South | 3 | 0 | 2 | 0 | 0 | 2 | 2 | 6 | 15 |
| 6 | Kerala-South | 60 | 1 | 3 | 0 | 2 | 2 | 2 | 3 | 73 |
| 7 | Kerala-North | 30 | 1 | 2 | 0 | 1 | 0 | 6 | 3 | 43 |
| 8 | Karnataka & Goa | 24 | 1 | 3 | 2 | 0 | 2 | 3 | 5 | 40 |
| 9 | Maharashtra | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 4 | 6 |
| 10 | Gujarat | 84 | 1 | 2 | 1 | 4 | 0 | 0 | 12 | 104 |
| Total | | 336 | 10 | 28 | 8 | 34 | 6 | 14 | 44 | 480 |

Table.4 Details of Special Programmes conducted from April 2014 to March 2015

7.1 REGULAR PROGRAMMES

NETFISH Regular programmes include awareness classes organized onboard fishing vessels, in harbours, landing centres and nearby fishermen villages. These programmes are categorized in to 6 types based on the location, topic and type of beneficiary. Each of these programmes is

limited to a maximum of 30 participants and each participant will be given stipend for attending the programme. A total of 1729 regular programmes were conducted during this year as given in Table 3 and the programme wise details are as given in the subsequent sections.

7.1.1 Fish Quality Management Programmes at Landing sites

A total of 679 fish quality management programmes were organized at landing sites during the year along the coastal states of the country. The targeted beneficiaries of these programmes were fishermen association members, auctioners, harbour workers, fishing vessel owners, fishing vessel crews, ice crusher workers, management society employees, fisherwomen etc. Lecture on the topics related to fish quality management were taken to the beneficiaries at their villages or working places. 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. The classes were followed by interaction session with trainees regarding various quality problems at landing sites. 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 NETFISH posters on

fish quality were shown and explained in the programme. Documentary / animation film "Handling of fishes at landing centre" were also shown to the trainees using LCD projector. A feedback report was also collected from the participants.

To encourage fishermen to practice what was taught, certain aid materials were provided to them free off cost by NETFISH. In West Bengal 444 nos. of round plastic baskets were distributed among the boat owners of South 24 Parganas and Purba Medinipur with a view to replace bamboo baskets with plastic baskets to maintain the quality of the fishes. In Odisha free sanitation kits containing hypochlorite, liquid detergent and brushes were distributed among the trainees. Flex boards with awareness messages displaying Do's and Don'ts in harbour auction hall were also installed during the month of March 2015 in Paradeep Fishing Harbour. In most of the programmes in Andhra Pradesh tarpaulin sheets were distributed to the beneficiaries instead of stipend to bring the practice of keeping big fish on sheets and not to keep the fish directly on the floor. In Cuddalore District NETFISH distributed



500 nos. of plastic baskets to the fishers. For keeping the quality of fish and ice, plastic shovels were supplied instead of stipend, at Thoppumpady, Thottappally, Kayamkulam, Sakthikulangara and Neendakara harbours. At Thoppumpady harbour NETFISH took the action to provide wheels for eight nos. of movable stainless steel raised platforms lying unused in the harbour, after which the

fishers started using it. NETFISH provided 5 numbers of trolleys each at Chettuva and Munakkakadavu harbours to support hygienic transportation of fish from fishing vessels to the auction hall. Six sign boards made in aluminium sheets of size 6 x 3 ft were installed in the auction halls of Munambam fishing harbor during the year. The sign boards were written in Malayalam,



| State/Region | Selected regions and No: of programmes | Total |
|-----------------|---|------------|
| West Bengal | Digha (41), Kakdwip(17), Freserganj (18), Raidighi(5) | 81 |
| Odisha | Paradeep (11), Balaramgadi (8), Bahabalapur (7), Chilka (17) | 43 |
| Andhra Pradesh | Visakhapatnam (26), Kakinada (28), Machilipatnam (8), Nizampatnam (8) | 70 |
| TamilNadu-North | Cuddalore (16), Pazhaiyar(4), Mudasalodai(9), Karaikkal(6), Nagapattinam(18) | 53 |
| TamilNadu-South | Colachel (3), Chinnamuttom (13), Tuticorin (20), Mandapam (22), Rameswaram (3), Mallipattinam (15) | 77 |
| Kerala-South | Thoppumpady (20), Arattupuzha (9), Thottappally (13), Kollam (28), Vizhinjam (1), Arthungal (4) | 72 |
| Kerala-North | Munambam (3), Ernakulam (6), Chettuva (5), Munakkakadavu (7), Bepore (6), Puthiyappa (6) | 35 |
| Karnataka & Goa | Mangalore (25), Malpe (21), Gangolli (4), Honnavar (4), Tadri (6), Karwar (22), Cutbund (10), Malim (10) | 114 |
| Maharashtra | Palghar (14), Raigad (7), Sassoon dock (15), Harne (1), Ratnagiri (13), Sindhudurg (2) | 52 |
| Gujarat | Veraval (22), Mangrol (16), Porbandar (21), Vanakbara-Diu (10), Dholai (2), Umarsadi (2), Nargol (2), Umargam (7) | 82 |
| Total | | 679 |

Tamil and English languages. The messages conveyed in the sign boards were against juvenile fishing, against keeping ice directly touching floor and against spitting, use of tobacco, smoking and eating in auction hall

and nearby areas. In Karnataka, hand gloves, hygiene kits (consisting of nail remover, tooth brush, ear buds, tooth paste & soap), and plastic sheets for dumping ice were supplied to the participants instead of stipend.

7.1.2 Sustainable Fishing/Conservation Programmes at Landing sites

To create awareness on the need for conservation of marine resources and sustainable fishing among fishermen association members, auctioners, harbour workers and other associated people engaged

in fishery related activities, 472 numbers of awareness classes were conducted at different landing sites and fishermen villages along maritime states of India. The participants of these programmes were



| State/Region | Selected regions and No: of programmes | Total |
|-----------------|---|------------|
| West Bengal | Digha (22), Kakdwip (15), Freserganj (7), Raidighi (4) | 48 |
| Odisha | Paradeep (13), Balaramgadi (7), Bahabalapur (6), Chilka (12) | 38 |
| Andhra Pradesh | Visakhapatnam (11), Kakinada (14), Machilipatnam (6), Nizampatnam (3) | 34 |
| TamilNadu-North | Cuddalore (9), Mudasalodai (3), Karaikkal (3), Nagapattinam (4) | 19 |
| TamilNadu-South | Colachel (6), Chinnamuttom (13), Tuticorin (18), Mandapam (8), Rameswaram (11), Mallipattinam (19) | 75 |
| Kerala-South | Thoppumpady (25), Arattupuzha (10), Thottappally (16), Kollam (9), Ambalappuzha (2), | 66 |
| Kerala-North | Munambam (5), Chettuva (8), Munakkakadavu (3), Bepore (8), Puthiyappa (7) | 33 |
| Karnataka & Goa | Mangalore (8), Malpe (7), Gangolli (3), Honnavar (3), Tadri (4), Karwar (10), Cutbund (4), Malim (4) | 43 |
| Maharashtra | Palghar (21), Raigad (8), Sassoon dock (5), Harne (4), Ratnagiri (23), Sindhudurg (2) | 63 |
| Gujarat | Veraval (13), Mangrol (9), Porbandar (15), Vanakbara-Diu (6), Dholai (2), Umarsadi (2), Nargol (3), Umargam (3) | 53 |
| Total | | 472 |



taught about conservation, sustainability, responsible fishing, implementation of mesh size regulation, closed fishing season and its significance, impact of juvenile fishing and other destructive fishing methods, marine pollution, need of ecosystem buildup, 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 among the participants. Animation films on 'Conservation of Marine Resources' & 'An escape to the depth' and Documentaries

on Marine Conservation were also shown to the participants in the programmes to make them better understand the subject. Feedback from the participants was also collected. In Maharashtra special efforts were taken to promote the conservation of Lobster and Pomfret fisheries.

Towards promoting the use of square mesh cod ends in trawl nets, an experiment was conducted onboard a trawler off Munambam and supplied the fishing vessel with 25 mm square mesh cod end for their regular use. In Maharashtra too, NETFISH supplied fishing vessels with square mesh cod ends.



7.1.3 Onboard Programme

Awareness training programmes onboard fishing vessels during the year accounted for a total of 232 programmes. Through these programmes fishing vessel crews were taught the fish quality management and conservation procedures to be followed while doing fishing. Each programme was attended by a group of 15 trainees. Lecture classes were given to them on 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 discard

endangered species of sea turtles, seahorse, sea -cucumber, molluscs, etc., caught accidentally during fishing. The practical parts include hands on training like cleaning of boat deck, utensils, handling of catch, catch segregation, preservation of catch in ice, etc. NETFISH leaflets and posters relevant to onboard handling of fish and responsible fishing practices were distributed to the participants. Awareness on MPEDA schemes for fishing vessels were also given to them in the programmes. Demonstration of square mesh cod ends was done in many of these programmes at Maharashtra to convince

fishers about benefits of square mesh.

In Odisha, hypochlorite, liquid detergent & brushes were supplied free of cost during training period to the fishing vessels to encourage regular cleaning. Also 2 nos. of lifejackets were distributed to each boat as fishermen aid for protection of crew

member's life during fishing on sea. In TN north boats, hand gloves, plastic bucket, wipers, detergents etc were provided to the participants during some of the onboard programmes. In Kerala South cleaning kits were provided to the boats whereas in Karnataka hand gloves and hygiene kits were provided during the programmes.

| State/Region | Selected regions and No: of programmes | Total |
|-----------------|--|------------|
| West Bengal | Kolkata (8) | 8 |
| Odisha | Bhubaneswar (11) | 11 |
| Andhra Pradesh | Visakhapatnam (6), Kakinada (4), Machilipatnam (1) | 11 |
| TamilNadu-South | Colachel (1), Mallipattinam (2), Rameswaram (1) | 4 |
| Kerala-South | Arattupuzha (2), Kollam (2), Aroor (43), Ambalappuzha (13) | 67 |
| Kerala-North | Munambam (12) | 12 |
| Karnataka & Goa | Mangalore (8), Malpe (6) | 14 |
| Maharashtra | Ratnagiri (4), Sindhudurg (1) | 5 |
| Gujarat | Veraval (11), Porbandar (2), Vanakbara (1), Dholai (2) | 16 |
| Total | | 148 |



7.1.4 Pre-processing Centre Programme

With a view to create awareness among pre-processing workers, technologist, supervisors in pre-processing centres and peeling sheds NETFISH conducted 148 pre-processing centre programmes during this 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. We also emphasized 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 given to the participants. NETFISH leaflets were distributed and posters and animation film on sanitation and hygienic practices in seafood pre-processing centers were displayed during the programme.

Prizes & certificates were distributed to the best worker of the unit by NETFISH in Odisha utilizing the stipend amount. Along Southern Kerala NETFISH supplied aprons, mouthpiece and hairnet instead of stipend at selected 30 peeling shed during the year. Aprons were distributed to peeling shed workers using the stipend, at selected PPCs in Kerala North as well.



| State/Region | Selected regions and No: of programmes | Total |
|-----------------|--|------------|
| West Bengal | Digha(22), Kakdwip(13), Freserganj(3), Raidighi(2) | 40 |
| Odisha | Paradeep (69), Balaramgadi (32), Balaramgadi (31) | 132 |
| TamilNadu-North | Cuddalore (3), Pazhaiyar (4), Nagapattinam (5) | 12 |
| TamilNadu-South | Chinnamuttom (2), Mallipattinam (4), Mandapam (1) | 7 |
| Kerala-South | Thoppumpady (1), Kayamkulam (1) | 2 |
| Karnataka & Goa | Mangalore (1), Malpe (1), Gangolli (1), Honnavar (1), Tadri (1), Karwar(2) | 9 |
| Maharashtra | Ratnagiri (20) | 20 |
| Gujarat | Veraval (10) | 10 |
| Total | | 232 |



7.1.5 Processing Centre Programme

During the year 2014-15, a total of 66 awareness programmes were organized at selected processing units, mostly on demand basis. The targeted beneficiaries were processing workers, supervisors and technologists of processing centers. To the participants lectures were given on sanitation & hygienic practices in the processing centre, hygienic handling of shrimps, physical, chemical & biological hazards, role of ice, fish

spoilage and the role of microbes, personal hygiene & habits, uses of change room, and abuse of antibiotics. Lectures on HACCP system, hygiene and sanitation practices were also given to processing workers. Film on Sanitation and hygienic practices in Sea food processing centre were shown to the participants and NETFISH posters and leaflets were distributed and explained to them in the programme.

| State/Region | Selected regions and No: of programmes | Total |
|--------------|---|-----------|
| West Bengal | Purba Medinipur(1),North 24 Parganas(5),Kolkata(10) | 16 |
| Kerala-South | Aroor (6), Sakthikulangara (3) | 9 |
| Maharashtra | Palghar (2), Raigad (10), Ratnagiri (8), Sindhudurg (1) | 21 |
| Gujarat | Veraval (11), Mangrol (2), Porbandar (4), Vanakbara (1), Dholai (2) | 20 |
| Total | | 66 |



7.1.6 Dry fish Programme

For the production of hygienic dry fish and to improve the export of dry fish products NETFISH conducts awareness classes for the dry fish workers and the associated people engaged in dry fish industry. A total of 132 dry fish programmes were conducted during the year. Major topics covered in the programmes included sanitation & hygienic practices, handling and sorting of catches, 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 bed for drying, packaging and storage of finished products, marketing, demerits of traditional drying method, demerits of bamboo basket for handling fishes, etc. The dry fish workers were introduced to solar drying, drying rack structures made with pipes and net and rope drying practices during 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. Notices on MPEDA subsidy schemes and

| State/Region | Selected regions and No: of programmes | Total |
|-----------------|---|------------|
| West Bengal | Digha (17), Kakdwip(3), Freserganj(4) | 24 |
| Odisha | Paradeep (2), Balaramgadi (2), Bahabalapur (2) | 6 |
| Andhra Pradesh | Visakhapatnam (9), Kakinada (9), Nizampatnam (9) | 28 |
| TamilNadu-South | Colachel (2), Chinnamuttom (9), Tuticorin (4), Mandapam (6), Rameswaram (5) | 26 |
| Kerala-North | Munambam (4) | 4 |
| Maharashtra | Palghar (12), Raigad (11), Harne (3), Sindhudurg (6), | 32 |
| Gujarat | Veraval (2), Umarsadi (5), Nargol (3), Umargam (6) | 12 |
| Total | | 132 |



NETFISH leaflets were distributed and explained to the trainees.

At Umergam, three days hands on training programme were organized for 4 batches (20 participants each) in the model bulk fish drying yard established by NETFISH in collaboration with CIFT. An Orientation program for fisher women on hygienic preparation of dry fish was organized at Kovalam in Kanyakumari on 21st July 2014 in association with Stella Maris Institute of Development Studies. Around 60 fisherwomen from 5 fishing villages

participated in the programme in which power point presentations and lectures on hygienic dry fish production were delivered to the trainees. On 29th December 2014, an exposure visit was organized for 18 fisherwomen from 4 SHG groups from Muduga, Karwar who are interested in dry fish business. The participants were taken to fish processing technology department of College Of Fisheries, Mangalore where the Head of the department gave a lecture on dry fish business. The solar dry unit developed by the department was also shown and explained to the fisherwomen.

7.2 SPECIAL PROGRAMMES

7.2.1 Street-plays

Street plays on fish quality management and conservation aspects were conducted by NETFISH targeting a large number of beneficiaries including fishermen, general public and students. The street plays are scripted in a simple manner for the easy understanding of the common people and it is designed by including different

aspects of fish quality management and sustainable fishing mixed with folksongs. A total of 336 street play shows were organized during the year along selected regions of the country. The street plays highlighted on the importance of keeping our beaches clean, maintaining cleanliness and hygiene at landing centres and fishing

| State/Region | Selected regions and No: of programmes | Total |
|-----------------|---|------------|
| West Bengal | Purba Medinipur(44) | 44 |
| Odisha | Chilka (19) | 19 |
| Andhra Pradesh | Visakhapatnam (10), Kakinada (20), Machilipatnam (10), Nizampatnam (5) | 45 |
| TamilNadu-North | Cuddalore (11), Mudasaloodai (6), Pazhaiyar (10), Chennai (3) | 30 |
| Kerala-South | Thoppumpady (15), Thottappally (5) Kayamkulam (10) Kollam (20) Vizhinjam (10) | 60 |
| Kerala-North | Beypore (7), Puthiyappa (3), Parappanangadi (5), Tanur (5), Tirur (5), Munambam (5) | 30 |
| Karnataka & Goa | Mangalore (8), Malpe (2), Honnavar (5), Tadri (5), Karwar (5) | 24 |
| Gujarat | Veraval (28), Mangrol (28), Porbandar (12), Vanakbara (16) | 84 |
| Total | | 336 |





harbours, hygienic handling of fishes and ice, proper icing of catch, personal hygiene, conservation of mangrove, juvenile fishing, avoid indiscriminate collection of prawn seeds and pollution of marine environment.

The street plays attracted huge audience in all parts and people readily accepted the messages NETFISH tried to convey. Even women and children came out and watched the street plays in many places.

7.2.2 Medical camps

Fishermen engaged in fishing and allied activities have least time to look after the wellbeing of their family members, by which they come across with a lot of health hazards. For the welfare of the fishermen communities free medical camps were arranged mainly for the sea going fishermen, fisher folk engaged in fish drying and their family

members. It is also an effective extension tool to attract fishermen towards NETFISH and also for wide publicity among the fishermen community as well as it creates awareness on health problem and personal hygiene. During 2014-15 around 10 medical camps were organized at selected regions by NETFISH. In these programmes the

| State/Region | Selected regions | Date | Total | No: of beneficiaries |
|--------------------|-------------------------|-------------------------------|-----------|----------------------|
| West Bengal | Kakdwip(2), Digha(1) | 6.6.14, 21.11.14 & 25.2.15 | 3 | 385 |
| Odisha | Paradeep (1) | 10.2.15 | 1 | 100 |
| Andhra Pradesh | Vizag (1) | 11.2.15 | 1 | 95 |
| Kerala-South | Thoppumpady (1) | 18.11.14 | 1 | 100 |
| Kerala-North | Beyepore (1) | 4.2.15 | 1 | 201 |
| Karnataka & Goa | Mangalore (1) | 25.2.15 | 1 | 105 |
| Maharashtra | Thane (1) | 19.6.14 | 1 | 117 |
| Gujarat | Veraval (1) | 11.2.15 | 1 | 103 |
| Total | | | 10 | |



general health checkup of the participants was done by eminent doctors and those detected having health issues were given proper directions to recover from the issues. Free medicines were also dispensed to the needy as per doctor's prescription. Blood group detection was also done in some of the programmes, after which the fishers

were provided with a health card which can be used for future requirements. The fishers expressed their special gratitude to NETFISH for organizing such camps for their welfare. The medical camp programmes of NETFISH had received wide coverage through newspaper media as well.

7.2.3 Cleanup Programmes

Cleanliness of fish contact surfaces is an inevitable factor for the preservation of quality of the fish. Fishing vessels, fishing harbours, landing centres and beach landing sites are the prime locations where fish contamination can happen. It is utmost important to maintain hygiene and sanitation at these locations. NETFISH conducts

cleanup programmes to create awareness among fishers on the need for keeping the fish contact surfaces clean and microbe free. These programmes also aim to encourage the fishers to follow hygienic practices while handling the catch. Cleanup programmes were conducted onboard fishing vessels, at harbours, landing sites and coastal areas.

7.2.3.1 Boat Cleanup

In order to create awareness among fishing boat owners and fishermen about the proper hygiene and sanitation of fishing boats, fish hold and necessary accessories related to fishing, boat cleanup programmes were conducted. A total of 10 boat cleanup programmes were organized during the

year, which were attended by boat owners, skippers and fishermen. The programme consisted of a lecture on significances of hygiene and cleanliness of fishing boats, fish holds, nets, crates, shovel and other fish contact surfaces. Then sanitation kits consisting of liquid soap and brush were



| State/Region | Selected regions | Date | Total | No. of boats cleaned |
|----------------|----------------------------|--|-----------|----------------------|
| West Bengal | Deshapran(5), Sankarpur(3) | 29.5.14, 30.5.14, 10.6.14, 24.6.14, 10.7.14, 28.8.14, 19.9.14 & 25.11.14 | 8 | 231 |
| Andhra Pradesh | Visakhapatnam (1) | 14.2.15 | 1 | 20 |
| Kerala-South | Kayamkulam (1) | 23.1.15 | 1 | 12 |
| Total | | | 10 | |



distributed to each boat and the boat crews were made to clean their boats and fishing equipments themselves. The fishers were well trained and they were realized that cleaned and sanitized boat will give better quality

thus fetching best price for their catch. It was also ensured that all the fishing boats are following the regularly cleaning procedure before and after catch.

7.2.3.2 Harbour Cleanup

Fishing harbour/landing centre is one of key areas for the promotion of fish quality management and conservation. Hygiene and proper sanitation conditions prevailing in the fishing harbour may have consequences not only on human and environmental health but also on fish price and exports. In order to create awareness as well as remove the wastes, debris, plastic etc. from the harbour premises, NETFISH took up harbour cleanup programmes.

Nine cleanup programmes were organized at fish harbours/landing centres with the active participation of fishermen and harbour workers. They took part voluntarily in the programme and cleaned the harbour premises very eagerly. Debris, plastic bags, PET bottles, plastic cups, thermocol pieces, broken nets etc. were collected in polybags from the wharfs and premises of the fishing harbour and discarded off safely. Drainages and areas with stagnant water were cleared

| State/Region | Selected regions | Date | Total | No: of participants |
|----------------|--|-----------------------------|----------|---------------------|
| West Bengal | Deshapran(1) | 13.10.14 | 1 | 17 |
| Andhra Pradesh | Visakhapatnam (1) | 10.2.15 | 1 | 100 |
| Kerala-South | Thottappally (1), Kayamkulam (1), Neendakara (1) | 21.11.14, 12.02.15, 10.3.15 | 3 | 195 |
| Kerala-North | Munakkakadavu (1), Beypore (1) | 21.11.14, 3.2.15 | 2 | 100 |
| Gujarat | Veraval (2) | 26.1.15, 9.2.15 | 2 | 75 |
| Total | | | 9 | |



and sanitized using bleaching powder. A talk was delivered to the participants and others, regarding significance of cleaning and maintaining neatness in the harbour. NETFISH provided cleaning materials and caps, masks and hand gloves as well to all the participants. The entire harbour was well

cleaned and this helped to create awareness among the harbour workers on the need to keep the harbour premises clean and tidy. The programmes were well appreciated by all stake holders of the harbour and the general public. It also received wide media attention.

7.2.3.3 Beach/Coastal Cleanup

The objectives of coastal cleanup programmes are to create awareness among the coastal community on coastal

pollution and its impact, to remove debris and other materials along the coast and to create public awareness of the cause

| State/Region | Selected regions | Date | Total | No: of participants |
|------------------|-------------------|----------|----------|---------------------|
| Andhra Pradesh | Mangamaripet (1) | 21.11.14 | 1 | 200 |
| Tamil Nadu North | Parangipettai (1) | 26.2.15 | 1 | 100 |
| Karnataka & Goa | Karwar (1) | 9.6.14 | 1 | 45 |
| Total | | | 3 | |





of litter and debris. These programmes were conducted mostly with the support of volunteers including fishers and students. Three coastal cleanup programmes were conducted during 2014-15. The participants were explained about the importance of the coastal cleanup programmes. Cleaning kits including gloves, carry bags, brooms etc. as well as caps, t-shirts etc. were provided to

the participants. They collected all kind of plastic wastes and other garbages from the beach in carry bags and disposed off safely during the programme. After the coastal cleanup bit notices were distributed to the fishing community by the volunteers to raise awareness on the importance of coastal cleanup.

7.2.4 Rally

On special occasions NETFISH arrange rally's with the participation from fishers, students as well as the general people to encourage and create awareness on conservation of

marine resources. This year 5 rallies were organized by NETFISH. During the rally the participants held placards with messages on sustainable fishing, protecting watershed,

| State/Region | Selected regions | Date | Total | No: of participants |
|-----------------|---------------------|------------|----------|---------------------|
| West Bengal | Narayanpur, Kakdwip | 21.11.2014 | 2 | 50 |
| Karnataka & Goa | Karwar | 10.6.14 | 1 | 125 |
| Maharashtra | Thane | 19.6.14 | 1 | 41 |
| Gujarat | Veraval | 13.2.15 | 1 | 60 |
| Total | | | 5 | |



maintaining fish quality, better market facilities and ensure better livelihood health and hygiene, unscientific catch of juvenile fishes and destructive fishing practices. Also they shouted slogans on stop juvenile fishing, today's juveniles are tomorrow's wealth, maintain hygienic and sanitation

condition and cleanliness in fish landing centre etc. Through the rally the messages on conservation and sustainability could be disseminated to fishermen community as well as general people. NETFISH provided caps & t-shirts to the participants.

7.2.5 School programmes

NETFISH arranged 33 awareness programmes at different schools along the coastal areas, so that they can aware their parents and other family members those who are engaged in fishing and allied activities. The school programmes were consisted of lectures on sustainable fishing, different aspects of conservation in the marine sector – protection of mangrove vegetation, marine turtle and reduction of by catch and on biological crop losses by indiscriminate collection of prawn seeds, sustainable fishing, pollution, etc. Besides, aspects like the present status of the fishery resources and exports of the State as well as from India, fish quality management and personal hygiene and habits environment & ecology acts & rules of State Govt. & Central Govt. regarding fisheries for fisheries

conservation etc. were also covered. For making a note of the lecture in the class room NETFISH provided writing pad and pen to each of 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 given prizes.

The students were shown documentary film on fish quality, conservation of marine resources, sustainable aquaculture and also shown animation film "An escape to the depth", and Presentation on Pollution due to plastic and plastic bags, films on marine life, Pollution on marine litter and plastic bags etc. through LCD projector. Also, leaflets and posters on conservation were circulated to the students & teachers.

| State/Region | Selected regions | Total | No: of participants |
|-----------------|--|-----------|---------------------|
| West Bengal | Khejuri (1), Contai (5), Ramnagar (5), Marishda (2), Kakdwip (1), Egra (3), Freserganj (1) | 18 | 1799 |
| Odisha | Chilka (4) | 4 | 200 |
| Andhra Pradesh | Machilipatnam, Nizampatnam & Vodarevu | 3 | 210 |
| Kerala-South | Kollam (2) | 2 | 275 |
| Kerala-North | Munambam (1) | 1 | 140 |
| Karnataka & Goa | Karwar (1) | 1 | 125 |
| Gujarat | Veraval (2), Mangrol (2) | 4 | 200 |
| Total | | 33 | |





School programmes helped to percolate the message to fishermen as well as to the general public on various aspects covering conservation, sustainable fishing, quality management and environmental protection etc. The students who attended the programme got a general view about the marine fisheries sector in India. Some

of the students promised to convey the messages they got from the programme to their family members who are involved in fishery activities. The principal, teachers and students appreciated NETFISH for selecting their school for conducting such a programme.

7.2.6 Door to door programme

Door to door programmes were arranged mostly at fishing villages so as to reach each fisherman personally. Person to person discussion, advices to fish handlers against the bad practices in the harbour, distribution

of leaflets on fish quality management and pasting of stickers against juvenile fishing on fishing boats were done during door to door programmes. Six such programmes were organized during the year. Interactions

| State/Region | Place | Date | Total |
|-----------------|----------------------------|-------------------|-------|
| TamilNadu-South | Chinnamuttom & Kanyakumari | 8.2.15 | 2 |
| Kerala-South | Thoppumpady | 12.1.15 & 13.1.15 | 2 |
| Karnataka & Goa | Uttara Kannad | 9.6.14 | 2 |
| Total | | | 6 |



with each family member of fishermen were possible through these programmes. Their attitude towards fish quality management and conservation were known and they

were given enough awareness to change many of their negative attitudes. Leaflets, posters and stickers were distributed during the programmes.

7.2.7 Mass communication

Mass communication programmes were conducted mostly by arranging mike announcements, mouth to mouth communication, distribution of leaflets and also displaying posters during working hours in the harbour. Such programmes are useful to communicate to the fish workers when they are engaged in their duties. A total of 14 mass communication

programmes were conducted during the year. One of the advantages with this type of programme is its wide reach and workers can listen to the message even when they are working. The fishermen, stakeholders, boat workers, harbour workers etc. were the targeted audience for the programme.

| State/Region | Place | Date | Total |
|-----------------|-----------------|---------------------------------------|-------|
| Andhra Pradesh | Vizag | 11.2.15 | 1 |
| TamilNadu-South | Tuticorin | 8.6.14 | 2 |
| Kerala-South | Thoppumpady (2) | 14.8.14, 3.1.15 | 2 |
| Kerala-North | Munambam (4), | 13.10.14, 20.10.14, 10.12.14, 13.3.15 | 6 |
| Karnataka & Goa | Mangalore | 23.2.15, 25.2.15 | 3 |
| Total | | | 14 |

7.2.8. Other special programmes by NETFISH

7.2.8.1. World Oceans Day Celebration

June 8th is observed as ‘World Oceans Day’ worldwide to remind us about the importance of Oceans and the need to protect its resources. NETFISH celebrated the Day by organizing various events across the maritime states of India. This year, the core theme of the campaign was “Conservation of Juvenile Fishes for the Sustainability of Marine Fisheries”. A variety of programmes comprising of rally, clean-up programmes, awareness meetings, awareness competitions, medical camps,

door to door programmes, street plays, film shows on conservation, leaflet distribution etc. were organized to remark the World Oceans Day.

West Bengal: In West Bengal a Free Medical Camp was organized at Akshaynagar, Kakdwip on June 8th, 2014, with an aim to create awareness about importance of health & hygiene among the fishermen community. The medical camp provided an opportunity for the sea going fishermen and their family members to check up their general



health, gynecological and ophthalmological aspects, blood pressure and blood sugar. Around 116 fishers have been examined by 3 doctors and free medicines were dispensed among them as per doctor's prescription. The camp, organized in collaboration with The Science Association of Bengal, received active support from Akshaynagar Sundarban Matsyajibi Samity, Kakdwip. During the programme, the State Coordinator described about activities of NETFISH in West Bengal and highlighted about the significance of celebrating World Oceans Day. The unscientific & destructive fishing practices like juvenile fishing were illustrated during the programme and fishers were urged to stop such practices. Also, NETFISH had pasted stickers, with messages "Do not catch juveniles" and "Today's juvenile is tomorrow's wealth", in the fishing boats at Kakdwip Fishing Harbour, as part of the campaign.

Odisha: World Oceans Day was celebrated in Odisha by arranging an awareness meeting with fishers at Bahabalapur, on 10th June, 2014. The programme was organized by involving State fisheries officials and trawler owners. Welcoming the gathering, NETFISH State Coordinator narrated the

importance of celebrating World Oceans Day. The significance of oceans in human life and the role to be played by Trawler Association to make pollution free marine environment were described to the audience in his speech. He advised trawler association members to use bins in each trawler for collecting unused materials like plastic packets, broken plastic bucket, small net parts, oil containers etc. and to dispose them safely on land, thereby avoiding discarding them in to sea. Awareness T-shirts, leaflets, stickers, etc. were also distributed in the programme.

Andhra Pradesh: Rally and awareness meetings were conducted on June 8th, 2014 at Visakhapatnam and Vodarevu by involving fisher folk. In the rallies, around 60-80 participants including community leaders, students, active fishermen and general public voiced slogans related to Ocean conservation and Avoid Juvenile fishing displaying placards of the same. The meetings were attended by scientists, fisheries officials, and members of local fishermen cooperative societies. In the meetings the measures to protect oceans and its resources were discussed. The fishers were urged not to put plastic wastes in to the



sea, instead collect and dispose it safely on land. At the end all the participants took an oath 'to protect the oceans and to save its resources for future generations'.

Tamil Nadu: On 6th June, NETFISH jointly with MSSRF celebrated the Oceans Day along with fishermen at Thangachimadam. Officials from MPEDA, Tuticorin Fisheries College and CMFRI and other dignitaries attended the programme. About 35 fishermen and 26 school students from 10 fishing villages participated in the programme. State Coordinator explained about NETFISH activities, illegal fishing practices at Gulf of Mannar region and conservation. Elocution and poetry competitions on the theme marine resource conservation were conducted for the participants. Special speeches on importance of Marine Resources, Gulf of Mannar marine diversity and its importance, strategies to be followed for conservation of Gulf of Mannar marine species, importance of oceans day etc. were also arranged for the participants.

At Chennai, a public consultative meeting on the theme "Together we have the power to protect the Oceans" was organized on 8th June 2014. Students, Professors, Scientists, fishers and general public took active participation in the programme. The programme was focused to create awareness among fishing community on the ill effects of juvenile fishing and to sensitize the general public on "Marine pollution" thereby to save oceans, the life supporting system of the planet earth. The programme sought the support from various stakeholder groups for a joint action to protect our ocean resources. In the meeting, eminent

speakers talked on various topics such as the purpose of celebrating World Oceans Day, the importance of Oceans and its biodiversity, climate change, marine pollution, using traditional knowledge for conservation measures, mesh size regulation for controlling juvenile fishing, role of mangroves and coral reefs in coastal protection etc.

School children awareness camps for coastal children residing near Kasimedu fishing harbour, Chennai were also organized in connection with the World Oceans Day celebration. One school event was conducted in the ICDS centre at Kasimedu on 13th June 2014 in which 17 boys and 10 girls from different schools participated. The second programme was conducted on 14th June 2014 in the Chennai Corporation Middle School at Suryanarayana Chetty Street, Kasimedu, where 75 school children studying in the classes 6th, 7th and 8th participated. The children were provided with a set of hand outs on the following topics: oceans and its role on environment and fishing, personal hygiene and coastal sanitation, ice and its role in fish quality, sea turtle and its conservation, mangroves and its conservation and coral reef and its conservation. The above subjects were introduced to children through riddles, short stories and group games. Two banners, one on coastal sanitation and other on hand washing was fixed on the walls which attracted children's attention.

Kerala: In connection with World Oceans Day, a debate on "Conservation of Juvenile Fishes" was conducted on 10th June 2014 at Ernakulam by involving the Boat Owners

Association members, fishing vessel crew members, fisher folks, fishermen society members etc. from Thoppumpady & Munambam areas. Officials from MPEDA, State Fisheries & Matsyafed also attended the programme. CE, NETFISH delivered a presentation on recent issues of illegal fishing, especially juvenile fishing prevailing in various parts of Kerala. Many of the participants expressed their strong views against illegal fishing practices and urged the government authorities to take strict action against such practices. The programme thus provided an excellent platform for discussing various issues like juvenile fishing, mesh size regulation, fishing holidays and other issues pertaining to the marine fishing industry in Kerala. Leaflets and notices related to marine conservation were distributed among the participants.

Karnataka: In Karnataka, 2 days programmes were organized in Uttara Kannada district, which consisted of door to door programme, beach clean-up, street plays and a rally. The door to door programme was carried out on 9th June along Karwar, Belambar and Belekeri fish landing centres, where handbills regarding juvenile fishing were distributed among the

fishers and stickers carrying message “stop juvenile fishing” were pasted in more than 250 fishing vessels. On the same day a beach clean-up programme was conducted at Mudga harbour to create awareness among the fisher folk and people of Mudga landing centre and fishing villages about marine & beach pollution & to encourage them to keep their beaches clean. More than 65 people belonging to fisher community participated in the programme, during which all waste nets, bottles, unwanted materials on the beach were collected and disposed at one place. Then a discussion was arranged on the subjects, hygienic handling and marine pollution. The next day a rally was conducted by involving around 250 students of Govt. High School, Baithkol, members of the School development board, teachers and fishers of Karwar fish landing centre. The gatherings were explained about the importance of conserving juvenile fishes and bigger mesh sized fishing nets. The school head master flagged off the rally, which started from the school ground and moved towards Karwar fish landing centre by covering the important streets nearby. The children shouted slogans such as “Stop killing Juvenile fishes”; “Conserve



fishery resources for future generation”; “practice eco friendly fishing methods”; “ Today’s juveniles are tomorrows wealth; “ Save Turtles and mangroves” etc. The children also carried hoardings related to conservation and sustainable fishing. That day, NETFISH Street play on conservation was performed at Amdalli and Majali fish landing centres, Karwar. NETFISH Documentary and animation shows were also arranged for local fishermen leaders and fishers of Belekeri and Belambar at Dattaguru Kalyana Mantap, Belekeri.

Maharashtra: A rally & a medical camp were conducted on 19th June, 2014 in Dhakti Dahanu, Thane. A total 41 boat owners/ fishers from Dhakti Dahanu fishing village, wearing NETFISH T-shirts with messages, actively participated in the rally. The purpose of celebrating World Oceans Day and the importance of conservation of marine resources were explained to the participants. Banners with messages “Stop juvenile fishing” and “Today juveniles are tomorrow’s wealth” were displayed and slogans for protecting marine environment were voiced during the rally. The medical camp conducted as part of the celebration was beneficial for 117 fishers including 64 fisherwomen and 53 fishermen from Dhakti Dahanu fishing village. Free medical health check-up were done and free medicines were dispensed on doctor’s prescription.

Gujarat: On 8th June, a debate competition at Porbandar & an awareness meeting at Umersadi were organized as a celebration of World Oceans Day. Officials of Dept. of Fisheries, CIFT, CMFRI & MPEDA, President

& all members of Boat Association / FRP Association, etc. attended the debate. The topic of debate competition was “Catching juveniles of Fishes is a blessing or Curse for Fishermen Community”. Eight candidates participated in the competition and all of them spoke well about juvenile fishing and its dangerous impacts. They all agreed to the fact that juvenile fishing is truly a curse for the entire fishermen community. Prizes were distributed among the winners. An oath, ‘to avoid catching Juvenile fishes and to implement 40mm square mesh cod end in trawler for the escape of juveniles’, was also taken by the gathering. In Umersadi presentations on climate change, global warming and its effect on coastal community, conservation of fishery resources etc. were arranged for the fishermen. The need of conservation in the present era of climate change and sea level rise was also explained to the fishermen community. MP of Valsad, MLA of Pardi, Panchayat members, Fishermen association members and representatives from Navsari Agriculture University and Dept of Fisheries attended the programme. Fisherman were told to adopt 40 mesh size square cod end in nets for the conservation aspect and urged then to keep coast and sea clean from plastic and other debris.

Thus, NETFISH’s World Oceans Day celebrations proved fruitful in creating awareness among stakeholders across the maritime states of the country on the importance of conserving the marine environment and the impact of extensive juvenile fishing on the balance of marine ecology.



7.2.8.2 World Fisheries Day Celebration

Fishing communities throughout the world celebrate November 21 as World Fisheries day to highlight the importance of conserving and sustaining world's fishery resources. NETFISH celebrated World Fisheries Day, this year by organizing a variety of awareness programmes across the maritime states of India. The main aim of observing World Fisheries Day was to draw attention towards juvenile fishing, overfishing and other serious issues threatening the sustainability of our fisheries sector.

West Bengal: In West Bengal, a fishermen rally, a medical camp and street plays were organized for fishers. Medical Camp and Rally were organized at Narayanpur, South 24 Parganas in collaboration with Digambarpur Angikar- support of Actionaid Association and European Commission. State Coordinator, NETFISH, briefed the gathering on the significance of the day, conservation of the marine resources and also on the importance of maintaining health and significance of the camp. The celebration started with the rally by fisher folks, holding placards endorsing messages on sustainable fishing. About 50

fishers participated in the road rally from Narayanpur Panchayat office to Namkhana landing centre and back. In the medical camp general health and other health issues of fishermen of Sunderban and their family were screened by the doctors. A total of 193 fishers were examined and free medicines were dispensed among them. Street Plays were organized at Chewasuli dry fish yard, Dakshin Purushottampur, Rania Dakshin Primary School and Uttar Kalindi School.

Odisha: In Odisha, NETFISH observed World Fisheries day by organizing a meeting and a clean-up programme in collaboration with Trawler Association, Balaramgadi. More than 60 participants including Fisheries officials, members of trawler association & fishermen association were present on the occasion. Impacts of overfishing, need for avoiding Juvenile fishing, importance of World Fisheries, different fisheries schemes of State Govt and its implementation etc. were discussed in the meeting. After the meeting, all the participants took part in a clean-up programme and cleaned the godown and surroundings of fish landing centre at Balaramgadi. T- Shirts, Caps



gloves and cleaning equipments were given to all the participants.

Andhra Pradesh: An awareness programme for school children was organized at a High School in Chirala near Vodarevu Landing Center in which 70 students belonging to fishermen community participated. The Panchayath Secretary, School Head master, other teachers of the school, also participated in the programme. Students were given awareness on marine conservation and coastal pollution. They were also made aware of their role in conservation of fishery resources. Afterwards, a rally was conducted from school to the landing centre. Along with school students- teachers, fishermen and panchayath officials also participated in the rally. After the rally a drawing competition on the theme conservation of fisheries was held in which 60 students participated and prizes were distributed to the winners.

At China Mangamaripeta village in Visakhapatnam, a mass awareness meeting and a beach clean-up programme was arranged. Around 300 women from China Mangamaripeta, Peda Mangamaripeta, Pukkallapalem, Chukkavanipalem and Kotturu villages actively participated in the

event. State Coordinator emphasized on the scientific and more hygienic way of dry fish production and its demand in export market. Scientists from CIFT spoke on the efforts of CIFT in bringing out all possibilities to support fishermen in fish production and its sustainability, various nets used to catch fish, importance of fish varieties and cleanliness in processing of fish. Later on, all the fishers, scientists and officers involved actively in the beach clean-up programme and cleaned the beach in Mangamaripeta village. At the end everyone took a vow saying that 'they will make every effort for better livelihoods through keeping their surroundings clean and producing good dry fish in hygienic way'.

Kerala: Harbour clean-up programmes were conducted at Munakkakadavu Harbour in Thrissur district and Thottappally fisheries harbour in Alleppey District. At Munakkakadavu the Harbour Coordination committee members along with 40 volunteers from various labor unions in the harbour took active participation in the celebration. A formal meeting was held at the harbour, in which the message on World Fisheries Day and its importance was delivered to the participants. This was followed by the clean-up activity by which the entire harbour and



its premises were cleaned, first by clearing the bushes, removing the garbage, cleaning the toilets and sweeping the floor and finally by cleaning the area with water. NETFISH provided rubber gloves and caps to the volunteers. In the clean-up programme at Thottappally fisheries harbour around 75 volunteers including fisher folks and representatives from all the trade unions participated. They removed the plastics wastes, paper wastes, fishing net wastes etc. and removed the garbage. The auction hall and premises were cleaned and washed. NETFISH provided caps and cleaning tools to the volunteers.

Karnataka: At Karwar, a harbour and boat clean-up programme was held in Fishing Harbour Baithkol. Fishers of Baithkol, Karwar fishing harbours and members of SHGs participated in the programme. NETFISH distributed hygiene kits (comprising of soap, liquid hand wash, hair oil, comb, tooth paste & brush) and cleaning materials (consisting of Chlorine water, liquid detergent, buckets, brushes & high quality hand gloves) to 50 beneficiaries each one selected from 50 different boats. A talk on hygiene in fishing harbour and onboard fishing vessel was arranged and a demo on how to clean the fishing vessel, fishing harbour and auction hall was also conducted. The entire fishing harbour was cleaned by the fishers. Twenty five boats were cleaned and the remaining boat owners assured the gathering that they will wash their boats in fishing ground. After the cleaning programme an oath was taken on "Swach fishing vessel and harbour" by all participants.

Maharashtra: A debate competition was organized in Harne which was attended by 72 fishers, out of which 8 took part in the competition. Topics given for debate competition were "Crisis Concern to Livelihood of Fisher Community" and "Need for Conservation of Marine Environment and its Resources". Participants mainly talked on pollution of marine environment by domestic wastes and industrial waste, overfishing, reduction in catch, lack of infrastructure at landing centres, increasing rates of fuel, no satisfactory surveillance and monitoring system in sea etc. Winners of the competition were given cash prize and consolation prize was given to all participants. NETFISH documentary on conservation and sustainable fishing were also shown to the participants.

Gujarat: NETFISH in Gujarat organized a debate competition at Mangrol on the topic "Catching juveniles of fishes is blessing or Curse for fishermen community". All fishermen and women of Mangrol Kharwa Samaj, members of Mangrol Boat Owner's Association, Scientists from CMFRI & CIFT, officials from Wild Life Trust of India, State Fisheries Dept. & MPEDA RO, Veraval and other dignitaries attended the programme. About 10 participants from fishermen community took part in the debate who spoke on the impacts of juvenile fishing and the necessity to stop such indiscriminate fishing practices. Eminent judges evaluated the speech and selected the winners. All the winners were honored by giving prizes and compliments. The programme ended with an oath "To Stop Juvenile Fishing", taken together by all the participants.

7.2.8.3 International Coastal Clean-up day Celebration

The International Coastal Cleanup Day observed on the third Saturday of September each year is the World's largest volunteer effort to clean the Oceans and other water bodies and to create awareness among people about the importance of keeping our oceans clean. On 20th September 2014 NETFISH observed International Coastal Cleanup Day by conducting special awareness programmes in Dadanpatrabar and Sankarpur Fishing Harbour, in collaboration with Ramnagar-1 Biodiversity Management Committee, Purba Medinipur. The programme included a school students awareness programme followed by coastal cleanup at Dadanpatrabar and Sankarpur fishing harbour. Sixty four students and their teachers from Hirapur Dashagran High School (H.S) and Dadanpatrabar M.K.S. School attended the awareness programme and participated in coastal cleanup programme. Nineteen fishermen also took active participation in the cleanup

programme. Hand gloves and cap were provided to all the participants.

Sea Club by NETFISH in the Department of Marine and Coastal Studies, School of Energy Environment and Natural Resources, Madurai Kamaraj University, Ramanathapuram was involved in "Awareness Programme on Beach Cleanliness in the Seeniappa Dhargha Beach of the Gulf of Mannar region", on the event of International Coastal Cleanup Day. Around 400 volunteers including students from Universities, Schools, Colleges, fishermen and local public gathered for the Beach Clean-up programme organized by the Sea Club. The volunteers were provided with caps, t-shirts and cleanup kits viz., face mask, gloves, data cards and trash bags. About 660 kg of debris including plastic wares, glass bottles, wooden items, construction materials, clothes, cigarettes, fish discards etc were removed from the beach.



7.2.8.4 World Toilet Day Celebration

As per the order received from the Govt. of India, World Toilet Day 2014, 19th November 2014, was celebrated by generating awareness on importance of clean toilets and

conducting a few toilet clean-up programmes at harbours. At Visakhapatnam fishing harbour an awareness meet was organized which was attended by 40 people including



fishermen, auctioneers and vendors. A talk on need and use of toilets was delivered to the participants. At Kayamkulam fisheries station a toilet cleanup programme was conducted in which 30 participants attended. Kayamkulam harbour engineering division also took part in the programme. Another toilet cleanup programme was held at Cochin fisheries Harbour on the day. A toilet cleaning programme was conducted at Munakkakadavu fishing harbour in which the State coordinator gave a lecture regarding the importance of clean and

tidy toilets and ways to keep it in a clean way. A group of harbour workers cleaned the toilets in the harbour using the cleaning equipments provided by NETFISH. The entire toilet block in the harbour was cleaned by the programme. The toilet day programme in Gujarat was organized at Mangrol fishing harbour where 20 volunteers worked together and cleaned the entire toilets and bathrooms in the harbour. This programme has created awareness among the harbour workers and fishers on the need to keep the toilets in the harbour clean and tidy.



7.2.8.5 Workshop on Dry Fish

NETFISH Kolkata organized a two days "Workshop on Dry Fish" from 28th to 29th January 2015 at Office of Asst. Director of Fisheries (Marine), Meen Bhaban, Contai, Purba Medinipur in collaboration with Dept. of Fisheries, Govt. of West Bengal. Sarvadhpathi Zilla Parisad, Officials from State Fisheries (Western Zone), fishers of dry fish yard of Purba Medinipur & Odisha, exporters of dry fish, fish meal and fish maws of West Bengal, purchasers of dry fish & fish meal etc. attended the workshop. About 71 and 63 participants attended the workshop on 28th & 29th Jan'15 respectively. Each participant was given a training kit

containing writing pad, pen, along with literature of hygienic scientific handling of dry fish and regulation of fishing by Dept. of Fisheries, Govt. of West Bengal. The impact of harmful chemicals, pesticides and insecticides on human body, hygienic handling of fishes meant for drying, export share of dry fish from West Bengal, present status of dry fish activities and problems in dry fish, preservation and packaging of dry fish etc. were the various topics dealt in the workshop. A hands-on training on hygienic handling and preservation of dry fish was also done as part of the workshop. As part of the workshop, a discussion was arranged



with producers, suppliers and exporters regarding various problems persisting to produce good quality dry fish, their marketing in export markets as well as in different States of India. The workshop was

ended with vote of thanks given by State Coordinator, NETFISH. The workshop was grand success with lot of proposals to develop dry fish & fish meal in West Bengal.

7.2.8.6. One Week at a Harbour Programme

This year NETFISH introduced a new approach of extension training programme referred to as "One Week at a Harbour". The programme involves concentrating on a single selected harbour in each respective region/state and conduct a series of extension training programme continuously for one week time. Continuous programmes for one week is sure to bring about a change in the mindset of fishermen in the selected harbour. In February 2015, 'One week at a harbour' campaign was organized at Odisha, Andhra Pradesh, Tamil Nadu South, Kerala North, Karnataka and Gujarat. The programme included variety of special programmes clubbed with regular awareness classes continuously for a few days at a selected harbour in each of these regions.

Odisha: "One week at a harbour" programme was organized at Paradeep

harbour from 9th to 13th February 2015. The five days long programme started with an inaugural function, followed by Medical camp, Awareness Rallies, Mass boat clean-up Programme, Auction hall cleaning, street plays and finally a Closing ceremony. Officials from State Fisheries Department, members of trawlers association and harbour management society etc. attended the inaugural function. The medical camp organized as part of the programme benefitted around 100 fisher folks, who were provided with blood grouping cards. The awareness rally conducted at the harbour got participation from trawler owners, boat crew members, fish traders and other fisher folks. All participants were provided with T-shirts. A mass boat clean-up was organized on the 4th day of the programme in which around 20 fishing vessels were cleaned using sodium hypochlorite, liquid detergent, brushes etc.



provided by NETFISH and with the support of 100 fisher folks. Life jackets were also distributed for these fishing vessels free of cost. On the final day an auction hall clean-up was carried out with the participation of fisher folks, traders and boat crew members. In addition to these programmes a stall was also set up in the harbour to display products related to fish quality, sanitation, hygiene, latest technologies in fisheries sector etc. for fisher folk.

Andhra Pradesh: Visakhapatnam harbour was selected for the ‘One week at a harbour programme’, where special programmes such as harbour and boat clean-ups, medical camp, mass communication and boat registration camps were organized along with regular programmes from 10th to 14th February 2015. Officials from Dept. of Fisheries, Visakhapatnam Port Trust, MPEDA, NETFISH, CIFNET, members of all the 3 Associations of Mechanized fishing vessels and all stakeholder groups participated in the programme. On 10th February, harbour cleanup programme was conducted with the support of Sanitary Dept. and staff of Visakhapatnam Port Trust. Around 100 members from all the stake

holder groups participated in it. Around 2km road from fishing harbour main gate was cleaned. The waste was collected in offal bags and disposed safely. On 11th, NETFISH arranged a platform for fishing vessel spot registration and renewal facility in the harbour. DD, MPEDA also attended the programme and guided for smooth conduct of registration of fishing vessels. Around 50 new registration and renewal were received. On 12th February, NETFISH supplied plastic baskets to fishing vessels. On 13th, a Free Medical camp was conducted in the fishing harbour with the support of Health Dept of VPT. Around 102 fisher folk made use of the camp and they were given medicines as per doctor’s prescription. On 14th, organized a mass boat cleanup programme and 20 boats were cleaned. Awareness was generated to the crew on keeping the boat in hygienic condition during the fishing.

Tamil Nadu South: Special programmes were organized as part of the “One week at a harbour programme” conducted at Chinnamuttom. The programme started on 6th February with an inaugural function in which Fishermen Union leaders (traditional and Mechanized), Coastal Marine police



officials, Deputy Director, MPEDA and State Fisheries Department officials participated and delivered lectures on Sustainable fishing, Hygienic handling and clean harbour. During the meeting it was suggested to form a Harbour management Committee for Chinnamuttom Fishing Harbour. Next day a Harbour cleanup programme was arranged by which 6 tonnes of garbage were collected and disposed off from the harbour. Around 75 saplings were also planted in the Harbour to make it green. On 8th, with the help of college volunteers and Fishermen representatives, door to door campaign was carried out in Chinnamuttom and Kanyakumari fishing village. On 10th February a stakeholder's meeting was conducted at Kanyakumari and also conducted 3 street play programmes in and around Chinnamuttom. Screening of NETFISH documentary films were also done as part of the programme.

Kerala North: 'One week at a harbour programme' was conducted at Bepore harbour in Kozhikode district from February 2nd to 5th. The inauguration of the programme was done by Sri. M.K. Raghavan MP, Kozhikode. Sri K N Vimalkumar, JD,

MPEDA RO, Kochi, officials from harbour engineering division, fisheries, coast guard, representatives from different labour unions, and representatives of various stake holder groups in the harbour felicitated on the occasion. A harbour and boat cleanup programme was conducted as part of the campaign, in which the harbour workers of various trade unions and boat crew members actively participated and the entire harbour area and boats were cleaned. The participants were provided with gloves, mask, caps and cleaning materials. A free medical camp was also conducted for the harbour workers on 4th February, with the help of the Government Beach hospital, Kozhikode. Over 200 fish workers in the harbour utilized the opportunity. On the same day a registration desk for MPEDA boat registration was also set up in the harbour. NETFISH posters and leaflets were displayed near the venue of the programme in the harbour during the campaign. Five street play shows were also arranged in the harbour. The issues of personnel hygiene and juvenile fishing were effectively communicated in these plays. In addition to these programmes NETFISH distributed fishing accessories such as 50 nos. of plastic





boxes, 40 nos. of plastic shovels, 18 nos. of plastic sheets and 150 pairs of gloves in the fishing harbour to improve the fish and ice handling.

Karnataka: In Karnataka, Mangalore fishing harbour was selected for conducting the 5 days long programme, which started on 23rd February and ended on 27th February 2015. A rally by NSS students, 9 regular programmes on FQM, 1 medical camp, 4 street plays, 5 video shows, 5 harbour clean-up programmes, one demonstration on harbor cleaning and boat cleaning programmes, 2 stake holders meeting and 2 seminars were organized as part of the 'One week at a harbour programme'.

Gujarat: The 'one week at a harbour programme' was arranged at Veraval harbour from 9th to 13th February 2015, which included an inaugural function, a medical camp, a cleanup, a rally, a boat registration camp, a closing function apart from 2 regular programmes and street plays. Officials of CIFT, CMFRI, EIA, MPEDA, State Fisheries Dept., College of fisheries, President of Various boat Association etc. attended the inaugural function held on 9th

February. It was followed by the harbour cleanup programme. On the next day a conservation programme was conducted in which technical officials of CIFT gave awareness about how to make diamond mesh to square mesh trawl cod end to boat owners. On 11th, an HIV blood testing camp was organized and around 103 people make use of the opportunity and gave their blood sample for testing. No one of them is found positive. Arrangement for fishing vessel registration camp was done with the support of DD & JTO of MPEDA, RO, Veraval. In the rally conducted on 13th morning around 50 students of College of Fisheries and leader of various fishermen association participated. They passed the messages to fishermen community on stop juveniles fishing, keep harbour clean, don't go fishing during monsoon ban, no more fishing vessel construction, use of square mesh cod end, stop crushing Ice on Floor etc. The rally was followed by a meeting which concluded with a main decisions like: Stop keeping ice on floor, Form a harbour clean up committee, Use square mesh cod end in Trawlers etc.

Thus the programme has helped in

improving the general cleanliness and operation standards in the harbour. The entire programme had generated good response in different stake holder groups and awareness about fish quality management

and conservation got a boost among the harbour workers due to the programme. This attempt has helped to bring the entire spectrum of workers into the NETFISH programmes.

7.2.8.7. Distribution of Fishermen Aid Materials

NETFISH works for the welfare of fishermen and teaches them good practices to be followed for the sustainability of fishing industry. In many cases the fishermen will be willing to change their unhygienic or unhealthy practices, but they refrain to do so because of lack of sufficient facilities. To make fishermen to practice what was taught, NETFISH supplies some of the essential materials free of cost to the fishermen and other stakeholders. This year too materials such as life jackets, plastic shovels, plastic sheets, gloves, aprons, cleaning materials, plastic baskets, trolleys etc were distributed to the beneficiaries.

through the fishermen associations. A total of 231 life jackets were purchased utilizing the fishermen aid fund of which were distributed among boat owners in Digha (50 numbers), Dadanpatrabar (12 numbers) and Chewasuli (12 numbers) during this year and the remaining were distributed in New Jeldah and Tajpur Jaldah khuti in East Medinipur as well as at different landing centres of South 24 Parganas. After initiation taken by NETFISH regarding utilization of life jacket in fishing vessels, State Fisheries is also enforcing the regulation to keep adequate numbers of life jackets or life buoy in the fishing vessel.

To propagate awareness among fishing boat owners about the importance of keeping life saving equipments' in their fishing fleets, Life jackets were given to the stake holders

NETFISH introduced plastic shovels in Munambam, Kaalamukku, and Munakkakadavu harbours in Kerala north region utilizing the stipend fund. In Beypore





harbour 40 numbers of plastic shovels, 50 numbers of plastic nets and 18 numbers of plastic sheets were given as part of the fishermen aid programme. NETFISH has provided hand gloves in Munambam, Kaalamukku, Munakkakadavu Chettuva and Puthiyappa harbours in Kerala north region using stipend money. In Beypore harbour alone, 150 pairs of gloves were given using the stipend money. The combination of plastic sheets, plastic shovels and gloves in Beypore harbour was to improve ice handling which was successful as the workers has started to use them immediately. Plastic shovels are also used for handling prawns and small varieties of marine fishes.

- ❖ Distributed 444 nos. of round plastic baskets among the boat owners of South 24 Parganas and Purba Medinipur in West Bengal with a view to replace bamboo baskets with plastic baskets to maintain the quality of the fishes.
- ❖ In Odisha free sanitation kits containing hypochlorite, liquid detergent and brushes were distributed to the beneficiaries.
- ❖ Tarpaulin sheets were distributed to the beneficiaries instead of stipend in

Andhra Pradesh to bring the practice of keeping big fish on sheets and not directly on the floor.

- ❖ In Cuddalore District NETFISH distributed 500 nos. of plastic baskets to the fishers.
- ❖ Plastic shovels were supplied instead of stipend, at Thoppumpady, Thottappally, Kayamkulam, Sakthikulangara and Neendakara harbours.
- ❖ At Thoppumpady harbour wheels were provided for eight nos. of movable stainless steel raised platforms utilizing fishermen aid fund.
- ❖ NETFISH provided 5 numbers of trolleys each at Chettuva and Munakkakadavu harbours to support hygienic transportation of fish from fishing vessels to the auction hall.
- ❖ In Karnataka, hand gloves, hygiene kits (consisting of nail remover, tooth brush, ear buds, tooth paste & soap), and plastic sheets for dumping ice were supplied instead of stipend.
- ❖ Plastic baskets (20 nos.) were distributed to fishers from Karla fishing village in Ratnagiri, Maharashtra.

7.3.2 Campaigns against Juvenile Fishing - Joint Programme With Matsyafed

NETFISH conducted campaigns against juvenile fishing along with Matsyafed, Thrissur district to fishermen in the coastal villages near Chettuva fishing harbour on 11th and 12th December 2014. Five such joint programmes were conducted in Kazhimbram, Eriyad, Kadappuram, Manathala and Nattika as there were incidents of landing of juvenile fishes in the Chettuva harbour and conflict between harbour workers and vallom operators

in the handling of juvenile fishes in the harbour. Fishermen were the target group in this campaign against juvenile fishing. SCO NETFISH took classes on sustainable fishing, distributed leaflets against juvenile fishing and screened short film regarding sustainable fishing. In all programmes there was healthy discussion with the participants and were made aware about the dangers of juvenile fishing.

7.3.3 Training Programme to Popularize Square Mesh Cod End in Maharashtra

A three days training programme on “Conversion of diamond mesh into square mesh and its commercial trials in trawlers” was conducted in Ratnagiri, Maharashtra from 20th to 22nd May, 2014. A hands-on training on conversion of diamond mesh to square mesh was given to the 15 participants on the first day and during the next 2 days the participants were taken for demonstration experiments aboard fishing trawler, using the square meshed cod ends. Scientist and

technical staffs from CIFT Veraval provided the technical guidance in this training programme. As a continuation of the square mesh campaign, NETFISH distributed 25mm mesh sized square mesh cod ends to 34 Trawlers in Mirkarwada Fishing Harbour in Ratnagiri, free of cost during January. It is decided to collect landing details from these trawlers and to compare their catch with other trawlers thereby evaluating the benefit of using square mesh cod ends.



7.3.4 Demonstration Experiment on the Use of Square Mesh Cod End in Trawlers off Munambam Coast

One of the most disastrous adversities affecting the marine fisheries sector of India is the high by-catch of juvenile fishes. The juvenile fishes in by-catch also include high density of juveniles of economically important fishes. Therefore, it can be said that the by-catch of juvenile fishes pose an equal threat to both ecology and economy. If the presently used diamond mesh cod ends are replaced by square mesh cod ends, it will go a long way in saving the juveniles and thus ensuring sustainability in marine fisheries sector.

In order to create awareness among the sea going fishermen on the benefits of using square mesh cod ends, a two day onboard demonstration experiment was conducted on a trawler with 10 crew members on 18th and 19th of March, 2015. CEO, NETFISH, SCO, Kerala North, Research Assistants and Harbour Data Collector, Munambam Harbour had participated in experiment. The main aim of the experiment was to compare the catch data of square mesh cod end (of

25 mm mesh size and 16 mm mesh size) and the diamond mesh cod end (of 25 mm mesh size). The fuel consumption during the hauling of different cod ends was also compared. Basically, the experiment was designed to give an onboard demonstration to fishermen on the economic and ecological viability of using 25 mm square mesh cod ends. A set of 5 experiments were conducted.

It was seen that the mean TL of fishes caught using 25 mm square mesh cod end was higher in comparison to other two, which means that higher percentage of larger fishes were present in the catch from 25 mm square mesh. It was calculated that in case they use 25 mm square mesh for hauling, fishermen can save 2 litres of fuel in an hour amounting to 24 litres of fuel per day. For 100 days of active fishing it is estimated that 2400 litres of fuel amounting to Rs 1, 32,000/- (2400 x Rs 55=1, 32,000) can be saved by using 25 mm square mesh cod end. It was found that 25 mm cod end mesh size would allow the escape of juvenile fishes





without causing much loss to fishermen. The fishes caught in 25 mm square mesh were easy to sort and were much cleaner. The fishermen who participated in the programme were much satisfied by the results and expressed their interest in using 25 mm square mesh cod ends.

7.3.5 Training on Sustainable Fishing

On 22.12.2014, NETFISH Andhra Pradesh coordinated with OXFAM (India) and conducted an interstate training programme on sustainable fishing and conservation of Mangrove vegetation. The members of fishermen societies and NGO from Tamilnadu and Andhra Pradesh states

were the participants for the programme. NETFISH shown the documentaries prepared on Fishery conservation. The programme was organized by DFYW Association, NGO. NETFISH distributed the leaflets and posters related to fishery conservation and sustainable fishing for the participants.

7.3.6 Stakeholders Meeting In Cuddalore

The NETFISH in Tuticorin conducted a stake holders meeting at the office of Assistant Director of Fisheries, Cuddalore on 25th February 2015. In this meeting The Deputy Director of MPEDA, State co-ordinator, NETFISH, Assistant Director of Fisheries and around 70 members from boat owner's association were participated. The Assistant Director of Fisheries gave the Lecturer on present condition of fishing harbour. The Deputy Director of MPEDA explained on MPEDA subsidy schemes. Assistant professor

from CAS in Marine Biology, Annamalai University gave a lecturer on 'cash from trash'. A fruitful interaction was done by the fisher folk during the programme. They had put forward many suggestions regarding the infrastructure facilities required in the harbour like MPEDA subsidized ice plants and cold storage, availability of fresh water, higher percentage of financial assistance to co-operative societies, dredging of harbour mouth, good road to harbour, toilet facilities etc.

7.3.7 Insulated Ice Box Popularization at Bhatkal

NETFISH organized a special campaign for popularization of MPEDA schemes for fishers at Bhatkal fishing harbour for two days. Asst. Director and Tech. Officer from MPEDA SRO Mangalore and representative from M/s Promens Company were also

present for the awareness programme for fishers. In the meeting AD MPEDA gave a talk on subsidy schemes of MPEDA for fishers. The Area Manager of Promens India Pvt Ltd explained the advantages of insulated fish boxes. NETFISH coordinator



told the fishers that for better quality and longer shelf life, fishers should carry insulated fish/ ice boxes onboard fishing vessels. Distribution of schemes in detail, application forms, fishing vessel registration forms, list of approved firms for insulated ice boxes were also done

on the spot. On the second day of the programme a few applications were received which were verified by the MPEDA officials and physical verification of fishing vessels was done at Bhatkal and Alivekodi fish landing centres.

7.3.8 Fish Farmers Day Celebration in Mangalore

NETFISH-MPEDA in collaboration with College of Fisheries, Mangalore, National Fisheries Development Board, Hyderabad and Professional Fisheries Graduates Forum (PFGF), Mumbai organized "Fish Farmers' Day, 2014" on 10 July 2014 at College of Fisheries. Sri. K. Abhayachandra Jain, Hon'ble Minister for Fisheries, Government of Karnataka inaugurated the program. Dr. S.M Shivaprakash, Director of Extension, Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar was the chief guest. During his remarks, he said that only fisheries can suffice the additional food demand by 2030. Carp productivity can be increased from 9 t/ha to 25-30 t/ha, he added. Dr. K.M. Shankar, Dean College of Fisheries presided over the function and

thanked the Minister for accepting all the appeals made on the occasion. Managing Director, Karnataka Fisheries Development Corporation, Deputy Director of Fisheries, Mangalore, Asst. Director, MPEDA, State Coordinator, NETFISH and Program Coordinator, KVK, Mangalore, were present during the function. Leaflets of NETFISH and schemes of MPEDA for farmers and ornamental fish breeders were distributed to all the farmers participated. Eminent personals had delivered the guest lectures on various issues related to aquaculture. About 52 progressive farmers from Chikkamagalur and Dakshina Kannada districts attended the programme. Successful farmers shared their experience. There was an open house discussion at the end of the programme.

7.3.9 Participation in "Krushi Mahotsav" 2014 organized by Department of Fisheries, Gujarat

The Department of fisheries, Gujarat organized "Krushi Mahotsav, 2014" at Porbandar on 5th June 2014. NETFISH was also invited to participate in the programme. The programme was named "Matsya Udhog Maha Shibir" and it was attended by seafood suppliers, fishermen, captains, leaders of fishermen communities, exporters

etc. Officials from Fisheries organizations like CIFT, CMFRI, MPEDA, KVKs and related offices like Coast Guard, Customs and Special Operations Group were also invited for the programme. One of the aims of the programme was to pass the necessary information regarding fish & fisheries and available schemes & plans for the



development of fisheries to the fishermen.

NETFISH animation & Documentary film were shown to the gatherings. Posters and banners endorsing sustainable fishing, conservation and hygienic handling of fish were displayed during the programme. NETFISH leaflets on Fish Quality Management & Conservation

were also distributed. State Coordinator, NETFISH delivered a presentation on the subject "Basic requirements of fishing harbour and its development in Gujarat". He also briefed about NETFISH activities in the state and explained the various subsidy schemes of MPEDA to fishermen.

7.3.10 Participation in Exhibitions

NETFISH participated in several exhibitions by installing a stall in the event. The stalls were setup with posters and charts representing various extension activities of NETFISH throughout India and also its awareness messages. NETFISH leaflets and other publications were displayed and distributed to the needy. A good number of visitors had attended the stalls and they were explained about NETFISH activities and MPEDA subsidy schemes as well. Many of the exhibitions were in collaboration with MPEDA offices. NETFISH documentaries and Animation films were also played in many of the stalls for the visitors. In some regions along with the stall NETFISH street play shows were also arranged to attract the crowd. The major exhibitions attended by NETFISH during 2014-15 are as given below.

- ❖ Aqua Aquaria, 2015 conducted by MPEDA at Vijayawada from 20th – 22nd February 2015.
- ❖ Indian National Exhibition – Cum Fair-2014 organized by Bengal Human Resource Development Foundation, at Science City, Kolkata from 21st - 26th September 14.
- ❖ Sunderban Lokapriya Utsav, 2015 at Sonakhali, South 24 Praganas.
- ❖ Kumari Agri Expo- 2015 organized by Kanyakumari District administration at Nagercoil, Scott Christian College premises from 13th -14th February 2015.
- ❖ Bharatheeyam 2014, an expo organized by The Greater Cochin Development Authority Recreation Club and Kerala Tourism Department at



Marine Drive, Kochi, Ernakulam from 19th – 28th December 2014

- ❖ World Ocean Science Congress EXPO 2015 jointly organized by Swadeshi Science Movement, Vijnana Bharati, Kerala chapter and Kerala University of Fisheries and Ocean Studies (KUFOS),

Kochi at Jawaharlal Nehru Stadium, Ernakulam from 5th – 8th February, 2015.

- ❖ FISHCO Festival organized in Fisheries College, Mangalore during February 2015

7.3.11 Installation of Exhibition Stall in Group Marriage Function of Fishermen

NETFISH installed an Exhibition stall during group marriage function held at Mangrol Fishing Harbour on 4th June 2014. The function was organized by Kharwa Samaj, Mangrol. The President of Community allotted keen space for installation of Exhibition stall. All the NETFISH Training Pamphlet, Poster, MPEDA newsletter, Prime, Tuna Conversion booklet as well as hands on kit, MPEDA subsidy scheme booklet, NETFISH Documentary /Animation film were kept for display. Models of square mesh nets were also kept for display. Fishermen, women and children visited the stall and collected required information from us. Most of the people who visited the stall were interested in various MPEDA subsidy schemes and had shown interest in square

mesh trawl nets employed mainly for the escape of juvenile fishes.

The President, Chamunda Vikas Trust, The President, Education & Rural Development Foundation Trust extended their active support and contribution to make fishermen aware of NETFISH activity as well as MPEDA subsidy schemes. State Coordinator, NETFISH explained to the visitors about present export trends, species depletion, diversification of business and impact of juveniles fishing. The function thus provided NETFISH with a good opportunity to educate fishermen even when they are engaged in social activity. An attempt has been made to develop a healthy relationship fisherman and to educate them under such joyful environment for a better outcome.



7.3.12 Self-Motivated Harbour Clean-up at Mangrol, Gujarat

NETFISH continuously work to educate the fishermen to keep their harbour clean. On 17th June 2014 when State Coordinator, NETFISH-Gujarat reached Mangrol harbour, he found that the fishermen themselves have initiated a harbour clean-up programme. They were removing garbage and other unwanted materials from the harbour. For

the clean-up activity around 150 active fishermen, one JCB, 2 tractors and 4 three wheelers were engaged. The president of Fishermen community appreciated NETFISH, stating that this is a result of continuous efforts put in by NETFISH through its extension programmes. This has to be viewed as one of the best outcomes achieved by NETFISH.

7.4 Projects by NETFISH

7.4.1 UNDP Funded Mud Crab Project in Sindhudurg

Since October 2013, along with MPEDA and RGCA, NETFISH is holding a project entitled “Mangrove crab stock enhancement by ranching and eco-friendly rearing in pen/ tide fed impoundments in the mangrove ecosystem of Sindhudurg district, Maharashtra through empowerment of traditional fishers” with the aid from UNDP-Forest Department, Government of Maharashtra. The major objectives of the project are to improve the livelihood of traditional fishers and to conserve mangrove fauna and flora. The two year project is being carried out in two phases in the three talukas

of Sindhudurg namely Deogad, Malvan and Vengurla. By this project, an eco-friendly ‘mangrove crab rearing technology’ will be established among fishers in Sindhudurg area by imparting them proper knowledge and training.

NETFISH’s preliminary role in the project was identification of sites for crab culture and groups of fishers who are interested in mud crab culture. Surveys were conducted at coastal area of Sindhudurg district and identified suitable sites for the project implementation. Also, seven groups were



identified on the basis of site selection. Three Technical Officers were recruited by NETFISH to monitor the project activities. Pen was constructed in the selected sites and crablets were stocked. In the first phase of the project stocking was done in 7 sites namely, Rameshwar, Wadatar, Veerwadi,

Tarkarli, Devbaag I, Devbaag II, Hadi. In the second phase stocking is done in Shiroda, Vengurla, Mithbaw, Kolamb, Rameshwar and Achara. All the financial transactions with regard to the project are being directed through NETFISH.

7.4.2 Dryfish project in Gujarat

Under the NETFISH-CIFT dry fish project a model dry fish yard was established at Umargam during March 2014. During this financial year regular Hands on training programmes were conducted in this model dry fish yard. Three days training each was arranged for 4 batches in the dry fish yard and 80 dry fishers could be trained for improved production of quality dry

fish. During the training programmes, the workers were practically trained for washing of Bombay duck with clean water, use of salt, importance of cleanliness of net yard, PVC Pipes, maintaining good personal hygiene, Use of Ice, Use of insecticide/pesticides etc. The workers were also trained to make laminated Bombay duck after 40% water dried from fish in lamination machine. The



last session of the training covered about the quality of fishes and its packing and marketing. NETFISH has also provided a solar conduction drier to Umargam Fishermen's Sarvodya Sahakari Society Ltd.

for making good quality dry fish in short time. The fisher women are now getting more price for their products than they got for the traditionally dried products.

7.4.3 Mud Crab Project in West Bengal

NETFISH started a project entitled "Socio-economic Upgradation of SC/ST fisherwomen of SHGs in Sundarban's through mud crab farming" at Purba Dwarakapur, in association with Digambarpur Angikar, a nonprofit organization in South 24 Parganas, West Bengal. The major objectives of the project are: popularize crab culture among coastal fisherwomen through training and demonstration, generate employment among coastal people, conserve marine as well as coastal ecology etc. The targeted beneficiaries of the project are 50 SC/ST fishing women who are mainly engaged in collecting shrimp seeds and catching crabs from the forest Side rivers, canals for livelihood. Six numbers of training programmes on crab culture/ fattening were conducted for the women SHGs involved in the project. Topics covered in the training programmes were identification of different type of crabs, biology of mud crab, fundamentals of crab culture, site selection for culture of crab, different types of culture practices of mud crab, grow

out and fattening of mud crab, feeding of crab, availability of seed for culture of crab, harvesting procedure, marketing and exports of mud crab etc.

Pond preparation was completed and stocking was done during March 2015. The pond is covered with mosquito net to avoid the entry of cat, dog and other domestic animal etc. Pump set was procured for flushing of water and water exchange in the pond as and when required. PH meter and weighing scales were also bought under the project. Lime was on the pond before stocking of crab for culture. On 12th March'15, in presence of Dy. Director R.O & R.C MPEDA, Kolkata, 280 pcs. of 28.800 kgs crabs (116 pcs of female and 164 pcs of male) were stocked in the culture pond. Average body weight of the crab was 100 gms. As the size of crab is not suitable for fattening as well as soft mud crab are not available culturing of the species for about three months will be done to attain the desired size.



7.4.4 Dry fish project in Andhra Pradesh

NETFISH has taken up a one year project entitled “Model Dry fish unit for empowering fisher women through Dry fish for women collectives at Pudimadaka” in association with District Fishermen’s Youth Welfare Association (DFYWA) a member NGO of NETFISH at Visakhapatnam, Andhra Pradesh. The project aims at construction of

a model dry fish unit, as done in Umergam, for the benefit of active fisherwomen who are the members of Pudimadaka Fisher folk foundation. The uniqueness of this project lies in its multifaceted approach in promoting women’s social and economic empowerment over the long-term.

7.5 Formation of Sea Club and its Activities

The vastness of Indian coastline creates a major hurdle in effectively carrying out extensive extension activities, owing to the limited manpower of NETFISH and its member NGOs. To address this issue NETFISH has come up with an idea of setting up “Sea Clubs” in the coastal Districts of India and the Sea Club members will function as NETFISH volunteers to carry out extension activities among fisher folks. To attract youth towards fisheries extension activity, NETFISH has decided to set up these Sea clubs at Colleges and Universities/ Institutes related to fishery and Schools near Coastal areas. Sea Clubs will be required to take up Fisheries development programmes

in and around their institutes.

Three Sea Clubs, supported by NETFISH, were formed during the year at:

- ❖ Department of Marine and Coastal Studies of Madurai Kamaraj University
- ❖ Dept. of Fisheries & Aquaculture in St. Alberts College, Ernakulam
- ❖ Institute of Fisheries Technology, Ponneri, Thiruvallur

The SEACLUB formed in Coastal and Marine Department in Madurai Kamaraj University, Madurai conducted a Coastal Clean-up program in Seeniyapadharga Beach, Gulf





of Mannar region on 19.09.2014, on the event of the International Coastal Cleanup Day (ICCD- 2014). About 400 volunteers from the universities, schools, colleges, local fishermen community and common public had participated in this programme. Around 60 kg of waste were collected from the beach side. NETFISH provided caps for the participants of the cleanup programme.

The Sea Club formed at St. Alberts College, Ernakulam was inaugurated on 27.11.2014. The Sea Club was formed in the Post Graduate Department of Fisheries and Aquaculture in St. Albert's College, Ernakulam which is affiliated to Mahatma Gandhi University, Kottayam. The members of the Sea Club are the faculty and students of two undergraduate courses viz. B.Sc. Industrial fisheries & Fisheries, B.Sc. Aquaculture and a post graduate course viz. M.Sc. Applied Fisheries & Aquaculture in the college. The Sea Club was inaugurated by Dr. Sunil Kumar Mohammad, Principal Scientist & Head, Molluscan Fisheries Division, CMFRI, Kochi. After the inaugural function, Dr. Pravin Puthra, Principal Scientist, CIFT, Kochi gave a special talk about the "By-catch reduction devices for responsible fishing in Trawl Fishery." More than 170 sea club members including faculty

and students from the college attended the programme. On 23rd February 2015 an experts talk on the 'Sustainability Of Marine Fishery Resources' was organized by the Sea Club at St Albert's College, Ernakulam. Dr V. Kripa, Principal Scientist and Head, Fishery Environment Management Division, CMFRI, Kochi addressed the Sea Club members and talked about the nature, scope and threats to the marine fishery sustainability. The programme was conducted to give awareness to the Sea Club members about the marine fishery sustainability. Over 100 students and staff attended the programme.

The Sea Club formed at Institute of Fisheries Technology (IFT), Ponneri, Thiruvallur district was inaugurated in February 2015. To mark this significant event an Inter-school Eco Awareness Campaign was conducted at IFT, Ponneri. The students representing nine schools (Government and Private) in Ponneri and Pulicat participated in the event. An elocution competition was held on the topic "Impact of global warming" both in English and Tamil. The drawing competition on the topic "Your Vision for a clean and green globe" was also conducted. The students exhibited their skills especially in drawing wherein their ideas were so vibrant. The winners were given prizes and certificates.

7.6 Training Programme at MANAGE, Hyderabad

NETFISH team including Chief Executive, State Coordinators and Research Assistants have attended training programme at MANAGE, Hyderabad from 10th -15th November, 2014. One batch had attended the training programme entitled “*Extension Management for Fisheries Development*” and another batch attended the training

programme “*Effective Communication for Extension Functionaries*”. The training sessions were very much interactive and were useful for all the trainees to enhance their knowledge in extension and to attain new skills for conducting extension activities more efficiently. Soft skill development programmes were also included in the training.



8. SPECIFIC OUTCOMES ACHIEVED DURING THE YEAR

8.1 WEST BENGAL

1. Dry fish khutis at Paschim Amarabati and Uttar Bakkhali, South 24 Parganas have adopted drying their fish on mat and racks to avoid contamination from dirt, mud and sand, hence the quality of dry fish also improved.
2. After intervention of NETFISH, fishers of Moinapara dry fish khuti at Kaddwip are drying their fish on racks made of net; thus it takes less time for drying and fishers are fetching better price for better quality dry fish.
3. After intervention of NETFISH, fishers of Tajpur-Jaldah khuti has been producing good quality fish meal on mat & net. Earlier they used sand bed for drying.
4. Distributed 231 nos. of Life jackets to the coastal fishermen under “Fishermen Aid Programme”.
5. Distributed 441 nos. of Round Plastic Baskets to the coastal fishermen of South 24 Parganas & Purba Medinipur.
6. In Raidighi and Namkhana landing centres most of the trawlers are facilitated with ice crushing machine on their boat itself
7. After conducting onboard and fish quality training programmes at Sankarpur & Deshapran fishing harbour



fishermen 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 processing plant.

8. Plastic crates and insulated fish boxes are being used to transfer fish from Namkhana, Fraserganj and Kakdwip fishing harbours to the auction market.
9. After conducting series of extension programmes and meeting with the boat owners, a total of 156 nos. of fishing boats got registered with MPEDA in the year 2014-15.
10. After intervention of NETFISH 30 fishing boats of Purba Medinipur setup their fish holds with financial assistance from MPEDA.
11. After intervention of NETFISH boat owners of Kakdwip and Freserganj have procured Insulated Fish Boxes to preserve the catch meant for export. Quality of catch is better in IFB rather than kept directly in fish hold.
12. Auctioneers are now transporting fish from Digha auction market to the processing plant at Kolkata as well as to the local market through insulated fish box and subsequently fishermen are getting better price.
13. After conducting various awareness programmes on conservation in landing centre, fishing harbour, fishing villages, schools etc. fishermen are well aware regarding conservation and protection of marine turtles. If any turtle entangle in the nets, fishermen are now releasing them in live condition to sustain our marine ecosystem.

8.2 ODISHA

1. Due to continuous training programme at Paradeep Fishing Harbour, hygienic condition of the harbour as well as auction hall has improved.
2. Awareness signboards on Do's and Don'ts were fixed in auction hall of Paradeep Fishing Harbour.
3. Fishing vessel owners are now interested in registering their vessels with MPEDA and availing MPEDA's various subsidy schemes due to NETFISH awareness programme at different fishing harbours and landing centers.
4. Marked improvement of hygienic and sanitary condition has been noticed in fishing vessels in all selected harbours and landing centers.
5. In Bahabalapur Fish landing jetty, Balamgadi fishlanding centre and Paradeep fishing harbour fishing boats are cleaned before and after fishing operation.
6. In Bahabalapur Fish landing jetty, Balamgadi fishlanding centre and Paradeep fishing harbour fishers are using plastic baskets instead of bamboo baskets for handling of fish.
7. Due to NETFISH training programme at Paradeep fishing harbour, now insulated fish boxes (IFBs) are being used in fishing vessels for preservation of fishes and shrimps which are going for export.
8. Due to NETFISH continuous effort, closed season is strictly observed throughout the state.
9. Due to NETFISH training programme,



attitude of the fishermen, boat owners, crew members, etc have changed a lot towards fish quality management and conservation.

10. In all the selected areas hypochlorite, liquid detergent, brushes, t-shirts and lifejackets were distributed instead of stipend.
11. Because of NETFISH extension training programme more fisher folks from Chilka are now applying for MPEDA's subsidy for IFB's through Chilka Development Authority (CDA).

8.3 ANDHRA PRADESH

1. All the stakeholder groups of Visakhapatnam fishing harbour are showing willingness to take the responsibility of daily cleaning and sanitation activities in the harbour from the Port Trust. To meet the expenditure they are also ready for the collection of toll.
2. Awareness was generated among the stake holders of Nizampatnam fishing harbour to start a 'Producer Organization' to buy and sell their catch hygienically with proper storage. NABARD is ready to fund the society for three years to meet the expenditure of establishing office, staff and for arranging facilities.
3. Aminabad fish landing center of Kakinada has upgraded with temporary jetty and approach road by the committee formed for maintaining the landing center. NETFISH suggested forming and registering a management society for better improvements and making facilities in the landing center.

4. Bamboo baskets were replaced completely with small and big plastic baskets in all the major fishing harbour like Visakhapatnam, Kakinada, Machilipatnam and Nizampatam and nearby landing centers.
5. The usage of Fiber shovels initiated in Visakhapatnam and Kakinada fishing harbour for handling of crushed ice and catch. Now around 30% of boats are using rust free PVC Shovels.
6. Ice handling practices improved at Kakinada fishing harbour. Stainless steel trays are being used by the boat owners of Kakinada fishing harbor for keeping crushed ice.
7. Tuna fish handling has improved due to the NETFISH awareness programmes in all the fishing harbours and nearby landing center. Now most of them are using plastic sheets and crates for keeping tuna fish.
8. In Visakhapatnam fishing harbour the traders are keeping waste collection bins to collect waste generated from packing material.
9. In most of the fishing vessels fish holds and deck is coated with fiber for easy cleaning. Most of the motorized crafts are constructed with insulated fish hold and taking enough quantity of ice for better preservation. Regular cleaning of fish holds are observed in Motorized and Mechanized fishing boats in the major fish landing centers and fishing harbours with detergent. Simultaneously all the crates and utensils are being cleaned with detergent after fishing.
10. Strict fishing ban was observed in all along the coast for 47 days. Fishermen



associations are supporting for 60 day fishing ban.

11. In about 70% trawling boats, cod end mesh size has increased by half inch to 23-25 mm to enable escape of juveniles. Some of the boats are using separate mesh sized cod ends for bottom and mid-pelagic trawling. The mid-pelagic cod end mesh size has increased to 30-40mm from 23mm.
12. Fishermen have decided not to allow any boat to catch live brooders.
13. Around 50% of trawlers are converted to gillnetters.
14. In Kakinada and Visakhapatnam 40% of the trawlers are using combination and insulated wire ropes. As a result the greasing activity inside the fishing harbour has reduced considerably.
15. The pre-processing centres are following the color code of the boxes and hand washing practice has improved.
16. Dry fishers of Mulapeta and Vodarevu fish landing center of Kakinada and Nizampatnam are now using sheets for drying fish and covering with net above. They are constructing their own cement fish drying flat forms. The salt curing cement tanks are covered with fiber cap to avoid fly infestation. In Odarevu fish landing center rope drying system is practiced and nets are used as cover.
17. Boat owners are registering and renewing MPEDA registration and are applying for fish hold subsidy scheme.
18. Thermocol boxes are replaced with Rotomoulded insulated fish boxes in landing centers and fish auction markets for preserving fish.

8.4 TAMIL NADU NORTH

1. Only plastic baskets are being used for handling of fish particularly in Kasimedu, Karaikkal, Nagapattinam, Cuddalore, Mudasalodai and Pazhaiyar fishing harbours.
2. Bamboo Basket has been completely removed in the selected fishing harbours where NETFISH trainings were conducted. In traditional and motorized sections also bamboo baskets are not in use.
3. After our continuous awareness programmes and stake holders meeting on formation of harbour management committee, Fishing harbour management committee was formed in Pazhaiyar. The first initiation by the committee is to appoint two persons for daily cleaning of auction hall.

8.5 TAMIL NADU SOUTH

1. A Harbor Management Committee was formed in Chinnamuttom Fishing Harbor
2. Bottom trawlers have converted to drift netters
3. Ban on the exploitation of juvenile ribbon fish during the month of January to March continued despite fishermen agitation
4. A Committee was formed in Chinnamuttom and Kanyakumari fishing village to stop fishing by mechanized sector within the 3 nautical mile.
5. Labors were employed through Management Committee for keeping

the fishing harbour clean

6. In Tuticorin and Chinnamuttom 70% of the auction is done by keeping fish in plastic baskets.
7. Brooders of blue crabs are released back to sea by the fishers
8. Fisherwomen are making use of fresh fish for making dry fish in Thangachimadam
9. In Mallipattinam, fishing boats are cleaned after each fishing trip
10. Ice handling has improved despite lack of infrastructure

8.6 KERALA SOUTH

1. In Thoppumpady harbour NETFISH has provided wheels for eight movable type stainless steel raised platforms which were lying unused in the harbor. Now the workers have started using the raised platforms.
2. Hand gloves, plastic shovels & trolleys are used while handling fish in Thoppumpady Fisheries Harbour.
3. As a result of discussion with AD Fisheries Neendakara strong action was taken for stopping juvenile fishing.
4. By continuous awareness programmes in Chellanam, fishermen and traders have decided to stop the fishing and auctioning of juvenile sardine

8.7 KERALA NORTH

1. Due to the NETFISH intervention, a harbour coordination committee and an upper harbour management committee was formed under the leadership of Tahsildar in Chettuva harbour. This decision was taken in a meeting chaired

by the District Collector, Thrissur.

2. Plastic shovels have been introduced in Munambam, Beypore, Munakkakadavu and Kaalamukku harbours in Kerala-North for the first time to replace the rusted shovels.
3. Developed a new extension tool which was named as one week at a harbour which can be applied for the quick quality improvements in harbours or landing centers.
4. The fish handling standards, workers awareness on hygiene and reputation of NETFISH has improved in Beypore harbour after the one week at a harbour programme.
5. Ice handling has been improved in Beypore harbour by the use of plastic sheets and plastic shovels for offloading ice.
6. The practice of storing crates inside the auction hall was stopped in Munakkakadavu harbour.
7. Successfully demonstrated the use of square mesh cod end in trawl net in Muanmbam area.
8. A Sea Club was formed and inaugurated at St Albert's college, Ernakulam with an aim to develop young students to extension programmes for the benefit of fisher folk.
9. 50 numbers of plastic nets, 40 numbers of plastic shovels and 18 numbers of plastic sheets were provided in Beypore harbour as part of fishermen aid.
10. Five numbers of trolleys each were provided for fish and ice transportation in Chettuva and Munakkakadavu



harbours.

11. Six new sign boards were installed in Munambam harbour.

8.8 KARNATAKA & GOA

1. Dumping of by-catch on the wharf is almost stopped in Mangalore.
2. As a result of the continuous awareness programmes by NETFISH, 90% decrease in dumping of fish on the floor is noticed in Malim harbour.
3. Fish drying practice has almost stopped near the wharfs in Honnavar harbour.
4. In Malim harbour, 90% bamboo baskets were replaced by plastic baskets.
5. In Mangalore fish workers stopped keeping ice on floor (about 50%)
6. In Mangalore and Malim fishers started using trolleys.
7. In Malpe fishing harbour, merchants started avoiding dumping of plastic crates in all the 3 auction halls and wharfs.
8. In Malpe parking area for two wheelers has separated from the main loading area.
9. Daily washing in Mangalore and Malpe fishing harbours and Malim fish landing centre is being strictly practiced.
10. Fishers has started using gloves while handling fish in Karwar, Malim and Bhatkal fishing harbors where gloves were distributed instead of stipend by NETFISH.

8.9 MAHARASHTRA

1. NETFISH has distributed square mesh cod ends to 34 trawlers and positive

feedbacks are being received from fishers who used these cod ends

2. Personal Hygiene and Sanitation in Seafood units have improved after NETFISH training
3. Fishers in Dahanu have shown interest to set up solar drying units to produce Hygienic dry fish
4. In Thane/ Palghar district, from 15th May to 15th August 90 days fishing ban was implemented by fishers as self regulation. As a result they are getting better catch this year especially pomfrets and lobster production has increased.
5. Improvement in Hygiene and sanitary conditions on fishing vessels is noticed in all selected areas. Fishers started using hand gloves during handling of fish in some boats, cleaning of deck, fish hold and baskets/ crates before and after fishing. Cleaning of boats before and after fishing is observed in all selected areas.
6. Hygienic handling of fish is seen in landing centres and harbours: Sorting of fish is done on plastic sheets and cleaned cemented platforms. Earlier they were handling the raw material directly on floor. Hygienic handling of fish on Sassoon dock fishing harbour is practiced. Usage of plastic sheets to keep the raw material on wharf area for auctioning.
7. Improvement in handling of raw material in Pre-processing centres: Personal hygiene of workers also improved.
8. Replacement of Bamboo baskets by plastic baskets: NETFISH has distributed

plastic baskets to fishers in Ratnagiri and Harne area instead of Stipend on request of fishers. Fishers themselves replaced bamboo baskets by plastic baskets in all selected areas. This is a major change observed after NETFISH programs. Plastic baskets distributed in Golap and Pethkilla in Ratnagiri. Almost 70 to 80 % bamboo baskets are replaced by plastic baskets.

9. Improvements in dry fish handling practices: Handling and selling of dry fish on plastic sheets, cleaned surfaces, and mainly cemented platforms is noticed.

8.10 GUJARAT

1. NETFISH could gain enough recognition from fisheries departments and other organizations and are invited specially for the programmes arranged by them.
2. Self motivated cleanup activity observed at Mangrol on 17th June 2014 was the effect of NETFISH training programmes.
3. Personal hygiene of Fish Pre-processing and Processing workers has improved in Vanakbara and Veraval
4. NETFISH activity on Toilet clean up day was appreciated by Mangrol fishermen community
5. Cleaning materials are supplied for fishing vessels instead of stipend at

Mangrol

6. Posters of hygienic handling of fish and on board handling of fish given to fishermen community are pasted at public places near Mangrol Fishing harbor
7. Posters given to various processing and preprocessing plant are pasted at wall of changing rooms
8. Fishermen stopped to cut mangroves at sea shore near Umarsadi fish landing center
9. NETFISH facilitated for the demonstration of Insulated fish Box at Mangrol Fishing harbour
10. NETFISH installed exhibition stall at Group Marriage function of Mangrol Fishermen community at Mangrol Fishing harbor
11. Dry fish quality has improved through Hands on Dry fish training programme at Umargam
12. NETFISH has established a solar conduction dryer at Umargam for hygienic and fast drying of fishes.
13. Floor peeling has stopped at PPC at Porbandar and has started table peeling
14. Fishermen's association themselves are keeping harbour clean at Veraval

9. MEMBER NGOs OF NETFISH FOR THE YEAR 2014-15

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. **Scuba Social Service Organization (SCUBA)**, Singapore Plaza, Sethu Road, Adiramapattinam, Thajavur District, Tamil Nadu.
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. **Shri. Suresh**, Resource Person, Kerala South
15. **Shri. Lalu**, Resource Person, Kerala South
16. **Sahyadri Community Development & Women Empowerment Society (SCODWES)**, Savinilaya Building, Maratikoppa Main Road, Sirsi, Karnataka.
17. **Snehakunja Trust**, Honnavara, Post Kasarkod, Uttara Kannada District, Karnataka.
18. **ManavVikas Sevabhavi (MVS)**, Chandranagar, Thane District, Maharashtra.
19. **Nagrik Bahu Udeshiya Seva Pratistan (NBUSP)**, Sindhudurg, Maharashtra.
20. **Jan Shikshan Sanstha**, Sindhudurg, 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

ROSHAN THOMAS & Co.

CHARTERED ACCOUNTANTS

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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, 2015 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.

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 2015
- 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 : 01.09.2015

For ROSHAN THOMAS & Co.
CHARTERED ACCOUNTANTS
FRN-0136115



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

I. SIGNIFICANT ACCOUNTING POLICIES

a. Basic 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 2014-15, an amount of Rs 1,80,00,000 has been received from MPEDA (author/founder of the society) and the same has been credited to Capital fund.

c. During the year 2014-15 an amount of Rs 50,00,000 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 on 31.03.2014 | During the Year | As on 31.03.2015 |
|---------------------------------------|------------------|-----------------|------------------|
| UNDP Fund received from MPEDA | 60,00,000 | 50,00,000 | 1,10,00,000 |
| Project Advance | -81,178 | 65,021 | -16,157 |
| Project Expense Payable | 3,058 | 3,86,346 | 3,89,404 |
| Amount utilized Mangrove Crab Project | -23,58,358 | -59,13,281 | -82,17,639 |
| Balance Fund in Hand | 35,63,522 | | 31,01,608 |

d. Traveling 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



NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH)
KOCHI (REG.NO.ER 509/06)
AUDITED BALANCE SHEET AS AT 31-03-2015

| LIABILITIES | Sch | As on 31.03.15 | As on 31.03.14 |
|---|-----|---------------------|-----------------------|
| CAPITAL FUND | | | |
| Opening balance | | 60 93 169.73 | 59 42 780.73 |
| Add: Fund received from MPEDA during the year | | 1 80 00 000.00 | 2 00 00 000.00 |
| Less: Excess of Expenditure over income for the year | | -2 03 27 219.00 | -1 98 49 611.00 |
| | | 37 65 950.73 | 60 93 169.73 |
| UNDP PROJECT FUND | | | |
| UNDP Fund received from MPEDA | | 1 10 00 000.00 | 60 00 000.00 |
| Less: Project Advance | | - 16 157.00 | - 81 178.00 |
| Add: Project Expense Payable | | 3 89 404.00 | 3 058.00 |
| Less: Amount utilised towards Mangrove Crab Project, Mumbai | | - 82 71 639.00 | - 23 58 358.00 |
| | | 31 01 608.00 | 35 63 522.00 |
| TOTAL | | 68 67 558.73 | 96 56 691.73 |
| ASSETS | | | |
| FIXED ASSETS | 1 | | |
| Opening WDV | | 4 58 930.73 | 8 19 438.73 |
| Less: Depreciation | | - 2 03 626.00 | - 4 06 998.00 |
| Closing WDV | | 2 55 304.73 | 4 12 440.73 |
| CURRENT ASSETS, LOANS AND ADVANCES | | | |
| CASH & BANK BALANCE | | | |
| Cash in hand | | -- | -- |
| Balance with banks | 2 | 72 56 726.00 | 97 56 485.00 |
| LOANS & ADVANCES | | | |
| Advance to Staff | | 73 538.00 | 35 000.00 |
| Advance to Supplier | | 10 000.00 | |
| Salary & TA Claim Receivable From MPEDA | | 2 65 321.00 | 2 53 950.00 |
| | | 76 05 585.00 | 1 00 45 435.00 |
| CURRENT LIABILITIES AND PROVISIONS | | | |
| OTHER LIABILITIES & PROVISIONS | | | |
| Expenses Payable | 3 | 2 43 406.00 | 64 210.00 |
| Salary Payable | 4 | 7 39 925.00 | 7 26 974.00 |
| Audit Fee Payable | | 10 000.00 | 10 000.00 |
| | | 9 93 331.00 | 8 01 184.00 |
| NET CURRENT ASSETS | | 66 12 254.00 | 92 44 251.00 |
| TOTAL | | 68 67 558.73 | 96 56 691.73 |

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

Place : Kochi
Date : 01.09.2015For ROSHAN THOMAS & Co.
CHARTERED ACCOUNTANTS
FRN-0136115CA ROSHAN THOMAS, ACA, DISA, (ICA)
Membership No:228912

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

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2015

| | | For the year ended 31-3-2015 | For the year ended 31-3-2014 |
|--|---|---------------------------------|---------------------------------|
| INCOME | | | |
| Miscellaneous Income | | | |
| Application Fee | | 8 000.00 | 9 750.00 |
| Membership Fee | | | 1 000.00 |
| Renewal Fee | | 300.00 | 300.00 |
| | | 8 300.00 | 11 050.00 |
| Profit on sale of assets | | | |
| TOTAL | | 8 300.00 | 11 050.00 |
| EXPENDITURE | | | |
| Extension Activities | 5 | 1 29 47 679.00 | 1 26 51 753.00 |
| Employee Cost | 6 | | |
| Salary - Chief Executive | | 6 65 673.00 | 6 39 828.00 |
| Salary - State Co-ordinators | | 40 17 756.00 | 40 91 689.00 |
| Salary - Research Assistant | | 6 26 046.00 | 5 02 766.00 |
| Salary - Staff | | 3 49 509.00 | 3 13 587.00 |
| Employer Contribution to PF | | 2 70 644.00 | .00 |
| | | 59 29 628.00 | 55 47 870.00 |
| Administrative Expenses | 7 | 12 54 586.00 | 12 54 040.00 |
| Depreciation | 1 | 2 03 626.00 | 4 06 998.00 |
| TOTAL | | 2 03 35 519.00 | 1 98 60 661.00 |
| Excess of Expenditure over Income | | -2 03 27 219.00 | -1 98 49 611.00 |

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

Place : Kochi
Date : 01.09.2015



For ROSHAN THOMAS & Co.
CHARTERED ACCOUNTANTS
FRN-0136115

Roshan

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



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

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2015

| Receipts | (Rs.) | Payments | (Rs.) |
|---|-----------------------|--|-----------------------|
| Opening balance - 01.04.2014 | | Payments for Extension Activities | |
| Cash | | Training Programmes | 1,08,36,872.00 |
| Bank | 97,56,485.00 | Publicity & Literature | 69,382.00 |
| | | Fishermen Aid Programme | 9,43,469.00 |
| Funds received from MPEDA | 1,80,00,000.00 | Travelling For Extension Training Staff | 8,13,066.00 |
| Funds received from UNDP | 50,00,000.00 | Animation | 2,13,473.00 |
| Other Income | 8,300.00 | Dry Fish Project Veraval | 71,417.00 |
| Salary, TA to Technical and Field Staff paid (MPEDA a/c) | 29,20,484.00 | UNDP Project | 54,61,914.00 |
| | | Payment to Employees | 59,17,496.00 |
| | | Salary, TA to Technical and Field Staff paid (MPEDA a/c) | 29,69,574.00 |
| | | Establishment & Other Items | 10,75,390.00 |
| | | Fixed Assets Purchased | 46,490.00 |
| | | Advance to Supplier | 10,000.00 |
| | | Closing balance - 31.03.2015 | |
| | | Cash in hand | - |
| | | Balance with banks | 72,56,726.00 |
| | 3,56,85,269.00 | | 3,56,85,269.00 |

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

Place : Kochi
Date : 01.09.2015



For ROSHAN THOMAS & Co.
CHARTERED ACCOUNTANTS
FRN-0136115



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

OFFICE BEARERS 2014-15



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