



2023-24



MPEDA - NETFISH

ANNUAL REPORT



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2023-24



Network for Fish Quality Management and Sustainable Fishing (NETFISH)
(MPEDA, Ministry of Commerce & Industry, Govt. of India)
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NETFISH ANNUAL REPORT 2023-24

Published by:
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Design & Print @

St. Francis Press, Kochi

ISSN 2394-8795

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ABBREVIATIONS

- CAA - Coastal Aquaculture Authority
- CIFT - Central Institute of Fisheries Technology
- CIFE - Central Institute of Fisheries Education
- CMFRI - Central Marine Fisheries Research Institute
- CSR - Corporate Social Responsibility
- DROP - Drive to Recover Ocean Plastic
- FH - Fishing Harbour
- GMP - Good Manufacturing Practices
- HACCP - Hazard Analysis and Critical Control Points
- HDC - Harbour Data Collector
- ICAR - Indian Council of Agricultural Research
- IFB - Insulated Fish Box
- LC - Landing Centre
- MFHMS - Munambam Fishing Harbour Management Society
- NOAA - National Oceanic and Atmospheric Administration
- PMFME - Prime Minister's Formalization of Micro Food Processing Enterprises
- PMMSY - Pradhan Mantri Matsya Sampada Yojana
- PVC - Polyvinyl Chloride
- RD - Regional Division
- ROR - Rules of the Road
- SCo - State Coordinator
- SHG - Self-Help Group
- SLRM - Solid and Liquid Resource Management
- SSOP - Sanitation Standard Operating Procedures
- TED - Turtle Excluder Device
- UT - Union Territory
- WWF - World Wide Fund for Nature

1 EXECUTIVE SUMMARY

1.1 MAJOR ACTIVITIES

- The various activities carried out by MPEDA-NETFISH during the period from April 2023 to March 2024 totalled to 4208 nos. The activities included several capacity building programs, meetings and workshops, project activities, harbour data collection, Swachh Bharat clean-up events, participation in expo, ornamental fish health certification, MY Bharat programs etc.
- **NETFISH General Fund Programs:** A total of 578 nos. of programs were carried out using the general fund. Since the major target was to reduce post-harvest loss & to promote sustainable fishing, 452 nos. of general programs conducted were harbour-based programs for sea going fishers, fish handling workers, boat owners and other allied groups. In addition, a few dry fish development trainings and pre-processing centre programs were also organized promoting hygienic handling practices. Stakeholders meetings were also arranged to resolve various issues related to the sector.
- **Swachhata Campaign** was carried out during October 2023 by conducting 12 nos. of beach/coastal clean-up programs along the 9 coastal states & Pondicherry UT in association with NGOs, various Govt. Agencies, schools and colleges and with the active participation of various fishery stakeholder groups.
- **Stakeholder's Workshops on Turtle Excluder Device (TED) Construction and Field Demonstration in India** were arranged in association with CIFT to sensitize about the importance of developing and implementing TED in trawlers in India. The preliminary workshop with net manufacturers was at Veraval on 20th December 2023. Then two stakeholder awareness workshops were organized in Mumbai and Vizag on 23rd and 25th January 2024, involving the State Fisheries officials, boat owners, net manufacturers etc. of West coast and East coast states respectively. Following this, US NOAA officials visited India during 19-25 February 2024 to evaluate the results of TED field trials and conducted a physical workshop on the fabrication of TED at Kochi involving net menders, boat owners, net manufacturers and nodal officers from state fisheries departments across the maritime states.
- **SC/ST Fishers Welfare Programs-** A total of 284 nos. of awareness and skill development programs, including harbour based training, on-board training and Sea Safety program, training to seafood processing workers, exposure visits etc. were conducted benefitting 8287 stakeholders belonging to SC/ST community.
- **Seafood Unit Training Programs:** Conducted 71 numbers of Seafood unit training program benefitting 2431 processing workers, supervisors and technologists and improved their knowledge in hygienic practices to be followed at workplace. The programs were conducted by collecting training fee from the processing units and thereby NETFISH could generate Rs. 7.10 lakh as external income.
- **Seafood Value Addition Training:** Two days Hands on training program on demonstration and preparation of various value added products of Squid and Octopus was conducted in a processing plant in Porbandar, Gujarat.
- **Paradeep Port Trust Sponsored Programs:** NETFISH had organized 50 nos. of capacity building programs for fisher folks in the coastal states of Odisha, utilizing the CSR fund of Paradeep Port Trust, with the aim to enrich their knowledge on fish quality, responsible fishing and sustainable management in the marine fisheries sector. A total of 1170 fishers were benefitted by these programs.
- **MFHMS Sponsored Programs:** NETFISH received Rs. 2 lakh from Munambam Fishing Harbour Management Society for conducting capacity building programs at Munambam FH and to promote dress code to more workers in the harbour. In this regard, NETFISH Kerala North region had conducted 5 numbers of awareness program to the fishers and 146 more workers in the harbour has adopted the dress code (Track pants and T-shirt).
- **Mangrove Foundation Program:** NETFISH Maharashtra North region had organized 11 training programs on 'Value added fishery product preparation and Hygienic handling' at North Maharashtra region with the financial assistance received from Mangrove and Marine Bio Diversity Conservation Foundation of Maharashtra.
- **Collaboration with CIFNET:** NETFISH coordinated in sending 48 fishermen from Maharashtra & Gujarat for 2 Tuna long line training programs at CIFNET, Kochi during June-July 2023. In Kerala, 5 awareness programs on Basics of Marine engine operation and maintenance/electronic & communication equipment's, Hygienic handling and pres-

ervation of catch on-board fishing vessel were conducted jointly for the fishers during January 2024, benefitting 250 fishers. Also, NETFISH had associated with CIFNET for conducting 14 nos. of skill development training programs on Tuna long lining and handling, Sea safety & Navigation etc. for 473 ST fishers from Lakshadweep islands.

- **Marine Mammal Project:** As part of the project entitled 'Marine Mammal Stock Assessment in India' sanctioned by DoF under the PMMSY scheme, carried out 16106 fisher surveys in 2 phases to understand on the by-catch of marine mammals/turtles, covering 166 fishing harbors and landing centers across the country. Under the Marine Observer program, data comprised of 41 sightings and 123 fishery interactions of Marine mammals and Sea turtles were reported by the marine observers.
- **DROP (Drive to Remove Ocean Plastic) Project** was initiated at Munambam Fishing Harbour for the collection of plastic wastes from sea with the help of fishers and its safe disposal and recycling at land. Under the project, about 8.5 tons of plastic wastes were recovered from the sea with the active participation of 231 fishing vessels, since the inauguration of the project.
- **Harbour Data Collection:** Carried out real-time data collection from 86 selected fishing harbour/landing centres. Data on species-wise fish rate from 35 landing sites was provided to NFDB on weekly basis.
- **Awareness through HDCs:** The fishers and fish handling workers at harbours were given regular awareness through Harbour Data Collectors at the respective harbours, by conducting 2817 nos. of programs. Awareness messages on protection of marine mammals and sea turtles, eradication of single use plastic, hygienic handling of fish, personal hygiene & fisheries related news etc. were disseminated among stakeholders through whatsapp groups formed at harbours.
- **Ornamental Fish Health Certification:** 64 consignments of ornamental fishes meant for export were inspected and certified by the NETFISH State Coordinators during the period.
- **MY Bharat Programs :** Coordinated in conducting 11 nos. of capacity building trainings for the youths under the MY Bharat program.

1.2 MAJOR IMPACTS

- The pre-cooling practice is adopted in more fishing ves-

sels by which post-harvest loss has reduced by ~5% and the fishers are getting 15-35% more value in auction due to improved quality & appearance of fish.

- Use of Insulated Fish Boxes for practicing pre-cooling and better preservation of catch has been intensified. In West Bengal, Fishers are using IFBs for keeping ice, practicing chilling of fish immediately after harvesting and doing proper preservation in IFBs on-board fishing vessels, by which they get Rs. 20000 to 40000 more income in each voyage by selling of exportable Pomfret.
- Fishers use sheets, baskets, net boxes, crates etc. to keep fish for sorting and auctioning at the harbour thereby minimizing the contact with floor and use hand gloves and gum boots while handling fish and ice. Fishers intensified the use of trolleys and crates for handling catch without keeping on floor and pack the material with sufficient quantity of ice.
- In Maharashtra North region, fishers started using pulley system to minimize handling of fish and ice and sea water mixture in crates to keep fish in crates
- In Andhra North region, fishers follow Hygienic handling of big fishes by keeping fishes in crates and then packing with sufficient quantity of ice in Insulated thermocol boxes for transportation. The cut pieces of big fishes are wrapped with polythene before ice packing for not to lose taste.
- 20 more fishing vessels in Paradeep have started using square mesh cod ends in trawls. Fisher from Harne and Devgad landing center started using 40 mm square mesh cod end to catch squid. In Gujarat, a Boat owner is regularly using square mesh cod end and he declared that he is getting big size catch and no juvenile fish is being caught in square mesh cod end.
- Regular cleaning has been initiated in the selected harbours
- More fishers are bringing back plastic from sea for safe disposal at land. In Maharashtra North region, Fishers and fish handlers started disposing plastic wastes and food wrappers only in to the boxes kept by stall owners
- The Processing Plant workers are maintaining good personal hygiene, cleanliness of food contact surface, proper handling & Icing of fishes to reduce post-harvest loss.

2 MEETINGS

- » The 35th Executive Committee Meeting of MPEDA-NETFISH was held on 20th July 2023 at 11.00 am in which 21 members participated.
- » The 17th Annual General Body Meeting of NETFISH was held at 11.00 a.m. on 15th September, 2023, through Video Conferencing and 36 members had participated.

- » The 36th Executive Committee Meeting of MPEDA-NETFISH was held on 4th March 2024 at 3.00 pm with the participation of 17 members.

3 PROGRAM TARGET 2023-24

Major Theme: Reduction of Post-harvest loss in fisheries

Minor Themes: Conservation and Sustainability, Skill development & Livelihood improvement

Table. Target for conducting Training programs during 2023-24

Type of program	West Bengal	Odisha	Andhra Pradesh North	Andhra Pradesh South	Tamilnadu North	Tamilnadu South	Kerala South	Kerala North	Karnataka	Maharashtra South & Goa	Maharashtra North	Gujarat	Total
1 NETFISH General Fund Programs													
Fishing Harbour Based Program	15	20	62	57	55	57	45	58	59	72	64	60	624
Dry Fish Program	3			5		10					1	7	26
Training at Independent Registered PPCs	2	0	5	5	0	3	10	15	3	0	0	0	43
2 SC/ST Fund Programs	73	25			12	8	3		5				126
3 Seafood Unit Training (paid)	15	15	20	20	20	10	30	10	20	15	20	20	215
4 Paradeep Port Trust Funded Program		53											53
5 Munambam Harbour Management Society Funded Program								5					5
6 Special Program	3	1	3	3	3	3	3	3	3	3	5	3	36
Grand Total	111	114	90	90	90	91	91	91	90	90	90	90	1128

4 EXTENSION ACTIVITIES 2023-24

Type of Programs	No: of programs	No of Beneficiaries
NETFISH GENERAL FUND PROGRAMS		
Fishing Harbour Based Program	452	7631
Dry Fish Development Program	24	465
Pre-Processing Centre Program	17	474
Stakeholders Meeting	67	345
Swachhata Campaign	12	1491
Exposure Visit	2	48
TED Workshop	4	219
SC FUND PROGRAMS		
Fishing Harbour Based Program	113	3382
On-Board Training	12	187
Sea Safety Awareness Program	3	90
ST FUND PROGRAMS		
Fishing Harbour Based Program	10	300
Training by CIFNET for Lakshadweep Fishers	14	473
Exposure Visit for Lakshadweep Fishers	2	41
MPEDA RD/SRD SC/ST FUND PROGRAMS		
Fishing Harbour Based Program for SC Fishers	76	2235
Seafood Unit Training for SC/ST Workers	42	1219
Fishing Harbour Based Program for ST Fishers	12	360
EXTERNAL FUNDED PROGRAMS		
Seafood Unit Training Program	71	2431
Cephalopod Value Addition Training	1	30
Paradeep Port Trust CSR Fund Programs	50	1170
Munambam FH Management Society Fund Programs	5	98
Maharashtra Mangrove Foundation Fund Programs	11	247
Marine Mammal Project- Training to Marine Observers	22	52
Value addition Training Sponsored by IDC, Mangalore	1	28
OTHER ACTIVITIES		
Awareness Classes/Meetings Conducted by HDCs	2817	17604
Meeting / Training / Evaluation of HDCs	80	-
Participation in activities organized by others	189	-
Coordination of Visit of Officials	17	-
Joint Programs with CIFNET	7	298
Ornamental Fish Health Certification	64	-
MY Bharat Programs	11	736
GRAND TOTAL	4208	41654

STATE - WISE ACTIVITIES

4.1 WEST BENGAL

Mr. Atanu Ray, State Coordinator, NETFISH has coordinated all the NETFISH activities in West Bengal, which totaled to 702 programs including 39 nos. of general fund programs, 71 SC/ST programs, 13 external funded programs, 521 awareness

classes by HDCs and 58 other activities (see Table). A total of 7480 fishery stakeholders in West Bengal were benefitted by these programs.

Table: Activities Conducted in West Bengal during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	15	375
	Pre-processing Centre training	1	55
	Stakeholder Meetings organized by SCOs	22	106
	Swacchata program	1	71
	Total General fund programs	39	607
2	NETFISH SC FUND PROGRAMS		
	Harbour based Program for SC Fishers	50	1495
	Onboard programs for SC Fishers	12	187
	Sea Safety & navigation program for SC Fishers	3	90
3	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Harbour based Program for SC Fishers	03	90
	Harbour based Program for ST Fishers	02	60
	Processing Centre Training for SC/ST workers	01	25
	Total SC/ST programs	71	1947
4	EXTERNAL FUNDED PROGRAMS		
	Seafood Unit Training Program (Paid)	13	474
	Total (external funded programs)	13	474
5	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	521	4452
	Training/Evaluation of HDCs	5	--
	Participation of SCO in meetings/classes organized by others	34	--
	Participation in Exhibitions	1	--
	Coordination of visit of officials from MPEDA & other Dept.	1	--
	Ornamental fish Health Certification	17	--
	Total (other activities)	579	4452
	GRAND TOTAL	702	7480

HARBOUR BASED PROGRAMS



» Almost 86% of the activities ie. 606 programs conducted in West Bengal during 2023-24 were harbour based programs. Of these, 70 programs were conducted exclusively for the SC/ST category fishers and 15 programs were conducted utilizing the NETFISH general fund (see Table & Fig.). Rest of the programs (521 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table). Fishers, Boat owners, Skippers and Harbour workers were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price, sustainable fishing practices for conservation of fishery resources and the uses of different life saving equipments and navigational equipments for safe fishing. Aid materials such as PVC shovels, Hand gloves, Soap, Life jacket, Life buoy, Rain coat, Half pants, T-shirts & Caps were given to the participants as an encouragement to adopt good practices.

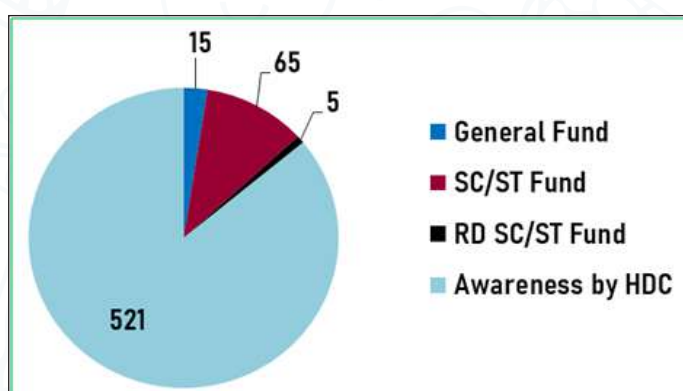


Fig. Category-wise Total number of programs conducted

Table: Category-wise number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of beneficiaries
NETFISH GENERAL FUND PROGRAMS		
Freserganj FH	7	175

Deshapran FH	4	100
Sankarpur FH	4	100
Total	15	375

NETFISH SC FUND PROGRAMS

Freserganj FH	10	290
Namkhana	9	238
Kakdwip	6	134
Diamond Harbour	4	120
Sagar	3	90
Kultali	8	196
Jharkhali	3	90
Patharpratima	7	210
Ramnagar	3	90
Contai	3	90
Nilpur	1	30
Dubda	1	30
Dash mile	1	30
Sultanpur / Hanra	6	134
Total	65	1772

RD SC Fund Programs

Haripur	1	30
Mundapara, Kakdwip	1	30
Bamanagar, Kakdwip	1	30
Total	3	90

RD ST Fund Programs

Mohipith	1	30
Gopalganj	1	30
Total	2	60



Capacity building training for SC fishers



Distribution of Life jacket to SC fishers

Awareness Programs/Meetings By HDCs

Harbour	No: of Programmes	No: of Beneficiaries	Beneficiary group	Topics
Deshapran FH	68	399	Fishers, harbour workers, boat owners	Chill-killing process Reduction of Post-Harvest Loss Avoid bamboo basket and iron shovel Awareness about stop catching of small juvenile fishes. Awareness of marine mammals act. Importance and uses of life saving equipment such as life jacket and life buoy
Sankarpur FH	77	460		
Kakdwip FH	62	583		
Freserganj FH	112	1167		
Shoula LC	40	225		
Namkhana LC	107	1231		
Raidighi LC	55	387		
Total	521	4452		

Table: Harbour-wise number of programs conducted by HDCs

Outcomes Achieved as a result of the Harbour Based Programs

- Practice of chilling of catch immediately after harvest, is adopted in more number of fishing vessels in Freserganj, Namkhana, Deshapran, Sankarpur, Patharpratima, Jharkhali, Sagar & Kultali.
- In Freserganj, Namkhana, Patharpratima, Jharkhali, Sagar & Kultali, plastic sheets are being used in the landing jetties for keeping fish for sorting.
- 60% fishers in Freserganj FH handle ice in hygienic manner without dragging on bare jetty.
- Fishers in Patharpratima, Jharkhali, Sagar & Kultali use IFBs for keeping ice and for proper preservation onboard
- Fishers in Freserganj, Deshapran & Sankarpur use PVC shovels for hygienic handling of catch.
- Hand gloves are being used in Freserganj & Deshapran for handling of catch and ice.
- Plastic baskets/crates instead of bamboo baskets are used for handling of catch in fishing vessels operated from Freserganj, Namkhana, Deshapran, Sankarpur, Patharpratima, Jharkhali, Sagar & Kultali
- In Freserganj, catch is transported in crates covered with plastic sheet to avoid possible chances of contamination from dirt.
- Fishes are transported to auction markets and processing unit through IFB to reduce post-harvest loss, in Freserganj, Patharpratima, Jharkhali, Sagar & Kultali
- Adequate ice is being used in Freserganj & Deshapran for proper preservation of fish.
- Fishers in Freserganj, Namkhana, Deshapran, Sankarpur, Patharpratima, Jharkhali, Sagar & Kultali are aware about uses of Life Jacket & Life buoys during distress condition.

- More than 50% of fishers in Freserganj, Namkhana, Deshapran, Sankarpur, Patharpratima, Jharkhali, Sagar & Kultali are now aware of the role of marine mammals & sea turtles in marine ecosystem. Any of these animals caught incidentally in their nets are immediately released back to the sea.

Impacts

- Fishers of motorized boats are carrying ice in insulated fish



Onboard pre-cooling practice



Adequate ice is used while transporting the fish to auction market



Use of polysheet for keeping of ice at Freserganj



Uses of insulated fish box for better preservation



Use of polysheet and plastic basket for hygienic handling of fish at Freserganj FH

SEA SAFETY & NAVIGATION TRAINING

- Conducted 3 nos. of trainings on Sea Safety & Navigation for the skippers of fishing vessels, belonging to SC category. Coast Guard officers, Coastal police and resource person and State Coordinator delivered talk regarding various

rules and acts of fishing, uses of sea safety devices and navigational equipments. Organized hands on training on uses of different life saving equipments and navigational equipments and discussed on ROR, Do & Don't in the fishing vessel in connection with safety and security.

Impacts

- During adverse climatic condition or at distress condition fishers now use lifesaving equipments such as life jacket and life buoy and communicate with the line departments for necessary help, search and rescue, because of which the death toll during fishing has been minimized.

Harbour/LC	No: of Programs	No: of Beneficiaries
Nilpur, Purba Medinipur	1	30
Dubda, Purba Medinipur	1	30
Dash mile, Freserganj	1	30



Class by Coast Guard officials in the Sea safety program for SC fishers at Dash mile, Freserganj

PRE-PROCESSING CENTRE TRAINING PROGRAMS



- Conducted a training program on Hygiene & sanitation practices, HACCP, GMP, Processing etc. on 10th August 2023 at M/s. IFB Agro Industry Pvt. Ltd, Kalinagar benefitting 55 staff of the PPC including workers, Supervisors, Technologists & Manager.

Sadan (H.S.), Freserganj, representatives from Indian Coast Guard, Freserganj Grampanchayat & Coastal P.S, Fisherman Association members, Officials of Freserganj FH, fishers, HDCs and general public had actively participated in the event. The very purpose was to create awareness about reducing the marine litters, minimal use of plastic, segregation at source and waste management.

The head master of Narayanitala Dhaneswar Siksha Sadan inaugurated the program and highlighted on the significances of observing the day and impact of marine litters in our environment. Shri D. Ekka, Dy. Director

SWACCHATA PROGRAM

- MPEDA-NETFISH organized a Cleanliness Drive commemorating the Swachhta Campaign 2023, on 17th October 2023 at Freserganj Fishing Harbour, South 24 Parganas. Students of Narayanitala Dhaneswar Siksha

talked about cleanliness and personal hygiene. Shri Atanu Ray, State Coordinator talked on various activities of NETFISH and MPEDA, significances of celebrating Cleanliness Drive, impact of single used plastics on our environment specially in the marine life, pollution etc. S.I. Coastal Police, Freserganj highlighted on the cleanliness, hygiene & sanitation as well as clean the sea, beach and conserve the marine resources etc.

All the participants collected plastic wastes, marine litters, garbage, torn net pieces, thermocol etc. from the jetty and harbour premises in the gunny bags. All

the wastes collected were handed over to the harbour cleaning staff for proper disposal. About 71 volunteers had participated in the program. T-shirt, cap, hand gloves etc. were distributed among the participants by MPEDA-NETFISH. School students and the fishers were quite aware about the very purpose of celebrating cleanliness drive and the importance of single used plastics, thermocol, torn nets etc to our environment as well as in the marine life. They also understood the role of marine mammals and sea turtles into our marine biodiversity.



Participants cleaning the harbour premises



Participants of the programme



View of the area before and after the clean-up process

- Also, the SCO joined with MPEDA RD Kolkata in cleaning the road and areas in and around office, collecting debris, wastes and applying bleaching powder for sanitization purpose and cleaning of SRD, Guwahati held on 1st & 13th Oct. 2023 respectively.

SEAFOOD UNIT TRAINING PROGRAM



- Conducted 13 nos. of awareness training programs benefitting 474 processing workers, Supervisors, Technologists & Managers at 12 Seafood Processing

units in West Bengal (see Table). The Awareness classes covered aspects such as hygiene & sanitation standards & measures to be followed in seafood processing units, basic HACCP system, GMP & SSOPs, Personal hygiene, Microbiology, Value addition of fishery products, traceability system, Documentation etc. Demonstration of hand washing, utensil washing techniques, preparation of different value added Cephalopod products etc. were also carried out during the training. All the 13 programs were conducted by collecting a training fee of Rs. 10000/- per program and thus a total of Rs.1.30 lakh was generated as external income to NETFISH. The trainees were given certificates after each program.

Sl. No:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	S S Seafood	Jagaibasan, Digha, Purba Medinipur	09.08.2023	33
2	Rupsa Fish Pvt. Ltd.	Pitulia, Ruiya Industrial Estate, North 24 Parganas	02.09.2023	50
3	Calcutta Seafoods Pvt. Ltd.	H. B Road, Kolkata - 129	12.09.2023	52
4	Matara Aquaculture West Bengal Pvt. Ltd.	Narghat, Purba Medinipur	14.09.2023	30
5	BASU International, Unit-V	Jogaibasan, Digha, Purba Medinipur	19.09.2023	67
6	BASU International, Unit-I	Diamond Harbour, South 24 Parganas	20.09.2023	30
7	Z A Seafoods Pvt. Ltd.	Unit-9, ISFPC, Chakgaria, Kolkata-94	22.09.2023	29
8	Elque Venture Pvt. Ltd.	Udayrajpur, Kolkata - 129	26.09.2023	32
9	Elque Venture Pvt. Ltd.	Udayrajpur, Kolkata - 129	27.09.2023	31
10	Sankhadeep Exports Pvt. Ltd.	Unit -II, Badu, Kolkata - 128	04.10.2023	17
11	Shimpo Exports Pvt. Ltd.	Unit-3, ISFPC, Chakgaria, Kolkata-94	06.10.2023	43
12	A S Enterprise	Digha mohana, Purba Medinipur	01.11.2024	30
13	Sadaf Sea Foods	Unit-V, ISFPC, Chakgaria, Kolkata	07.11.2024	30

- In addition, one training program was conducted for 25 nos. of the SC/ST Processing workers & Supervisors

at M/s. A. S. Enterprise Digha, Purba Medinipur on 13th December 2024.



STAKEHOLDER'S MEETINGS

Sl. No.	Date	Location	Purpose	No. of participants
1	18.10.23	Henry's island, SFDC, Freserganj	Meeting and discussion with project manager on setting up Sea bass and Crab hatchery.	5
2	01.09.23	Hingalganj, North 24 Parganas	Meeting with aqua farmers regarding SC/ST training programs	7
3	10.05.23	Meen bhaban, Contai	Meeting with Asst. Director of Fisheries (Marine) regarding implementation of fishing ban, SC/ST training programs etc.	5
4	03.11.23	Digha	Meeting with Boat owner's association for TED workshop	2
5	20.06.23	ICAR-CIFRI, Barrackpore	Meeting with Dr. B. K. Das, Director, CIFRI along with Dy. Director and Asst. Director of MPEDA regarding various fisheries activities in West Bengal and North East states	1
6	16.05.23	RD Kolkata	Meeting with Dry fish exporters	--
7	29.09.23	MPEDA, RD, Kolkata	Meeting with farmers, exporters etc.	--
8	13.10.23	APART, Dept. of Agriculture, CIFRI, Guwahati	Meeting with Fisheries Coordinator, APART and the Scientists of CIFRI, Guwahati regarding fish farming and fish drying for SC/ST fishers along with the beneficiaries.	6
9	13.09.23	Digha mohana, Sankarpur	Meeting with Fisherman Association & Exporters regarding export issues	5
10	08.09.23	Jettyghat, Kaylaghata,	Meeting with fisherman association on MPEDA SC/ST training programs	6
11	30.09.23	Freserganj, South 24 Parganas	Meeting with fisherman association, Indian Coast Guard, School for arrangement of harbour based program	7
12	27.06.23	Deshapran FH, Purba Medinipur	Meeting with Harbour Officer regarding up-gradation of Deshapran & Sankarpur FH	1
13	30.01.24	Sultanpur FH, South 24 Parganas	Meeting with IB officer regarding various issues related to marine fisheries, security, implementation of rules & acts and TED etc.	4
14	04.08.23	RD, Kolkata	Meeting with JD fisheries, Govt. of WB regarding harbour development, TED, CAA registration etc.	3
15	22.05.23	RD, Kolkata	Meeting with Nilkamal Ltd. regarding providing IFB under MPEDA SC/ST scheme 2023-24	2
16	14.03.24	Digha mohana	Meeting with Secretary and other members of DFFTA regarding implementation of TED & Square mesh	4

17	25.05.23	Namkhana, Kakdwip, South 24 Parganas	Meeting with stakeholders on fishing ban period, Implementation of SC/ST programme, Distribution of fisherman aid material, etc.	6
18	24.05.23	Dash mile, Freserganj	Meeting with stakeholders on fishing ban period, Implementation of SC/ST programme, Distribution of fisherman aid material, etc.	4
19	10.10.23	Bishalgarh, Santir bazaar, Tripura	Visit of aqua farms site and meeting with stakeholders for Scampi /GIFT farming and dry fish	12
20	14.10.23	Kathalbari, Hajo, Assam	Visit the aqua farms at Kathalbari for Scampi & Seabass farming and meeting with the beneficiaries. Visit of FPC at Hajo and meeting with the beneficiaries for hygienic drying practices etc. Travel from Guwahati to Kolkata.	10
21	13.10.23	Morigoan, Assam & Jagi Road Dry Fish Market	Visit the aqua farms at Morigoan for Scampi farming and meeting with the beneficiaries. Visit of Jagi Road Dry Fish Market and discussed with the dry fish traders	8
22	11.10.23	Ranirbazar, Agartala, Directorate of Fisheries, Collage of Fisheries	Visit to demo farm site and inspection of dry fish unit and discussion with the beneficiaries; Meeting with FDO, director of Fisheries, Dean and Professor of CoF, Tripura for development in fisheries sector in Tripura; Meeting with the SC/ST stakeholders.	8

PARTICIPATION IN AATMANIRBHAR BHARAT UTSAV

➤ MPEDA-NETFISH took part in the Aatmanirbhar Bharat Utsav, organized by the India Trade Promotion Organisation (ITPO) from 3-10 January 2024 at Pragati Maidan, New Delhi. The event was inaugurated by the Hon'ble Minister of Commerce and Industry, Shri Piyush Goyal. To empowering communities 6 skilled fishers, representing four distinct fisher societies in Purba Medinipur district and South 24 Parganas district were identified and taken by MPEDA-NETFISH to participate in the expo and to display their products. A diverse array of dry fish items such as Dried Bombay duck, Ribbon fish, Anchovies, Croaker, Phasa, Shrimp etc. produced by Self Help Groups (SHGs) from the Schedule Caste community in West Bengal were properly

packed in poly pouch with required information such as commercial name, scientific name, weight of pack, name of the production unit and date of production etc. Shri Atanu Ray, State Coordinator, MPEDA-NETFISH provided insights into the diverse activities of MPEDA-NETFISH and explained on fish drying techniques and elucidated the significance of dry fish to the visitors and delegates at the stalls. A very good response was received from the visitors and most of them tasted the dry fish items and all the dry fish packed were sold out in the fair. Queries for further business were also received from some of the visitors.



OTHER ACTIVITIES

- Attended the Farmers meet at Kakdwip organized by MPEDA on 05.03.24 and discussed on Sustainable aquaculture and diversified aquaculture etc.
- Attended in fishermen training program for skippers and boat owners of mechanized boat organized by DFFTA on 07.06.23 at Digha mohana, Purba Medinipur and highlighted on the exports and marine fisheries landing of West Bengal, hygienic practices for reduction of Post Harvest Loss, conservation methods to be adopted, safe fishing etc.
- Attended mega awareness campaign under AKAM & inaugural program of Field station organized by INCOIS on 08.08.23 at Digha
- Attended stakeholders meeting on "Resource Assessment and Management Framework for Sustainable Marine fisheries of West Bengal and Odisha" organized by CMFRI, Digha on 17.05.23 at Sankarpur and delivered a talk on seafood exports and marine fisheries landing of West Bengal, hygienic practices for reduction of Post Harvest Loss, conservation methods, safe fishing etc.
- Delivered an awareness class on abuse of single use plastics, marine pollution in sea, marine mammals & sea turtle, TED etc. to the school students of Narayanitala Dhaneswar Siksha Sadan, Freserganj on 17.10.23
- Attended in meeting cum workshop of Dry Fish Matters organized by IIT Kharagpur and University of Manitoba, Canada on 18.08.23 at Fairfield Hotel, Kolkata and discussed on mapping the social economy of dried fish in South and South East Asia and various aspects of fish drying.
- Attended a program on "Capacity building to manufacture exporters to enhance export" organized by Branch Secretariat, Ministry of External Affairs, Govt. of India jointly with ASSOCHAM, Kolkata on 23.08.23 at Taj Bengal Hotel
- Attended in the workshop on Development and Implementation of TED in India organized by MPEDA-NETFISH at Visakhapatnam on 25.01.24.
- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Attended 3 days training program for ST farmers on "BMP & Diversification in Aquaculture" organized by NaCSA on 20.05.23 at Boyarmari, North 24 Parganas and delivered a talk on post harvest quality, hygienic handling of shrimp and Diversification of Aquaculture, and gave hands on training to the farmers on detection of pH, salinity of water etc.
- Attended the Stocking of Scampi seed in the demonstration pond of MPEDA on 20.06.23 at Basirhat, North 24 Parganas
- Carried out an inspection for setting up a new fresh & Chilled fish unit and Dry fish unit on 02.11.23 at Junput
- Carried out an inspection at processing unit IFB Agro Industry Ltd. on 05.09.23
- Did an inspection of aqua farms and independent PPC on 06.07.23 at Nandigram, Contai, Purba Medinipur along with DD & AD MPEDA
- Carried out an inspection of Feed meal unit M/s. New Hope West Bengal Feed pvt. Ltd, Naihatyi on 07.12.23
- Did an inspection at Soft shell crab unit on 10.05.23 at Narandia, Ramnagar along with DD
- Carried out an inspection of Processing unit M/s. Global Aquatic, Naupala on 10.05.23 along with DD
- Inspection of Chill fish and Dry fish handling centres were done on 12.03.24 at Roy Enterprise & RST Innovative Solution
- Did an inspection for setting up new Fresh & Chilled Fish Unit on 12.06.23 at Thakurpukur along with AD
- Carried out an inspection of dry fish units at Karimganj, Assam on 12.10.23
- Carried out an inspection at processing plant M/s. A S Enterprise, Digha on 13.09.23
- Did an inspection of on-going Surmi unit on 17.01.24 at Digha mohana
- Did an Inspection of upcoming fish processing unit at Raidighi on 22.01.24
- Inspected a large cold store M/s. S A Exports at North 24 Parganas on 01.09.23
- Inspected a Dry fish unit M/s. Sundry Fashion, Panchla, Howrah on 24.04.23 along with DD MPEDA
- Inspected a Dry fish unit M/s. Suhasini Enterprise, Asthichak, Purba Medinipur on 25.04.23 along with DD MPEDA
- Inspected a Dry fish unit at upcoming Surmi unit M/s. Janatha Surmi Co., Digha, Purba Medinipur on 25.04.23 along with DD MPEDA
- Did an inspection in Chill fish unit M/s. Swarnali Exports, Duttapukur on 28.04.23 along with AD MPEDA
- Carried out a Demonstration on IQF of value added cephalopods at M/s. Elque Ventures Pvt. Ltd., Kolkata on 28.09.23
- Attended in 4 nos. of 3 days Hands on training on Sea food value addition organized by MPEDA in Maharashtra, Gujarat, Kolkata & Odisha during 25-27 Nov. 2023, 29 Nov-1 Dec 2023, 3-5 Dec. 2023 & 15-17 Dec 2023 respectively.
- Participated in Showcasing and testing of value added seafood products on 18.12.23 at RD, Balasore
- Meetings and trainings were arranged for the Harbour

Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc.

- Assessment of activities of the HDCs at Sankarpur FH, Shoula LC, Deshapran FH, Freserganj FH, Kakdwip FH, Namkhana LC and Raidighi LC were done during Sep-Oct 2023
- Coordinated the delegates from Odisha for Visit to Fresh

& Chilled unit at Sarisha and Live crab unit at Kolkata on 07.09.23

- Inspection of Ornamental fish for export were done & issued 17 nos. of Health Certificate to various ornamental fish export units.
- Disseminated about 271 awareness messages through 15 whats app groups formed at harbours each message reaching around 1500 fishery stakeholders.



Review meeting of HDCs at RD Kolkata & Assesment of Bycatch survey by HDC at Sankarpur



Ornamental fish Inspection for health certification & Participation in Mega Awareness by INCOIS



Hands on training on Sea food value addition organized by MPEDA



Participation in Stakeholder meeting of Dry Fish Matters organized by IIT Kharagpur

Mr. Subhrakanta Mohapatra, State Coordinator, Odisha has coordinated all the NETFISH activities in Odisha, which totaled to 340 programs including 6 nos. of general fund programs, 42 SC/ST programs, 65 external funded programs, 222 awareness

classes by HDCs and 5 other activities (see Table). A total of 5460 fishery stakeholders in Odisha were benefitted by these programs.

Table: Activities Conducted in Odisha during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	3	60
	Stakeholder Meetings organized by SCOs	2	16
	Swacchata program	1	54
	Total General fund programs	6	130
2	NETFISH SC FUND PROGRAMS		
	Harbour based Program for SC Fishers	27	810
	Onboard programs for SC Fishers	5	150
3	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Harbour based Program for SC Fishers	6	180
	Processing Centre Training for SC/ST workers	4	120
	Total SC/ST programs	42	1260
4	EXTERNAL FUNDED PROGRAMS		
	Seafood Unit Training Program (Paid)	15	550
	Paradeep Port Trust CSR Fund- Capacity Building	50	1170
	Total (external funded programs)	65	1720
5	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	222	2350
	Training/Evaluation of HDCs	1	-
	Participation of SCO in meetings/classes organized by others	4	-
	Total (other activities)	222	2350
	GRAND TOTAL	340	5460

HARBOUR BASED PROGRAMS

- Almost 92 % of the activities ie. 313 programs conducted in Odisha during 2023-24 were harbour based programs. Of these, 38 programs were conducted exclusively for the SC category fishers. Under the general category, 50 programs were conducted utilizing the Paradeep Port Trust CSR fund and only 3 programs using the NETFISH General fund (see

Fig.). Rest of the programs (222 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours. All the general fund and Paradeep Port Trust Fund programs were conducted in Paradeep Harbour whereas the SC fund programs were conducted for the SC fishers in Chilka area. Fishers, Boat owners, Skippers and Harbour workers were the targeted beneficiaries of these programs

and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. T-shirts & caps, gum boots, life jacket, note pad, pen, folder, stipend, food and refreshments etc.

like items were provided to the participants in most of the training programs. Participation certificates were also issued to them. Utilizing the Paradeep Port Trust CSR fund, Square mesh cod ends were also given to a few number of fishing vessels in Paradeep.



Hands on training on pre-cooling practice for SC fishers at Chilka

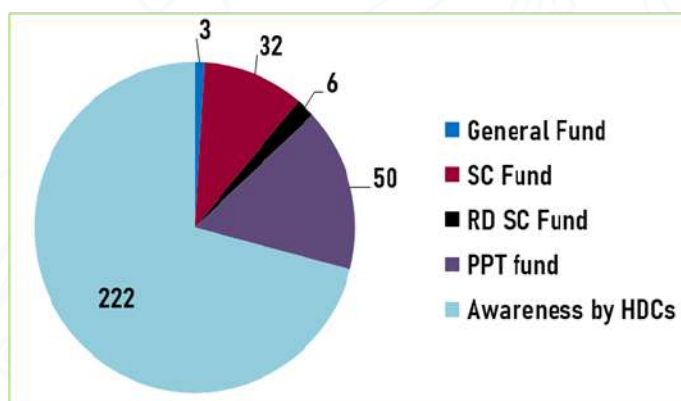


Fig. Category-wise Total number of programs conducted



Paradeep Port Authority CSR fund training program on pre-cooling practice and use of square mesh cod end at Paradeep harbour

The Paradeep Port Authority has sanctioned Rs. 10 lakhs from their CSR fund to NETFISH for conducting capacity building training programs during the years 2023 & 2024.

Awareness Programs/Meetings by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Paradeep FH	90	950	Crew members, skipper, trawler owners, net menders, etc.	Fish quality and conservation and Marine mammal/turtle identification, By-catch data collection etc.
Dhamara FH	64	670		
Balaramgadi Landing Centre	68	730		
Total	222	2350		

Outcomes Achieved as a result of the Harbour Based Programs

- Practice of chilling of catch immediately after harvest, is adopted in 22 more number of fishing vessels in Paradeep. Last year's count was 15 vessels.

Sl.No	Name of Fishing Vessel	Vessel Reg No.
1	Jadupati	IND-OR-04-MM-362
2	Maa Tuni	IND-OR-04-MM-499
3	Pitamata Varasa-4	IND-OR-04-MM-38
4	Dharmasakhi-3	IND-OR-04-MM-244
5	Omm Maa Gayatree-1	IND-OR-04-MM-139
6	Dharmasakhi -3	IND-OR-04-MM-244
7	Maa Bhabani Sankar-2	IND-OR-04-MM-199
8	Pitamata Varasa	IND-OR-04-MM-148
9	Maa Dakhineswari-III	IND-OR-04-MM-86
10	Maa Brundabati 1	IND-OR-04-MM-69

11	Maruti Nandan	IND-OR-04-MM-516
12	Siridi Sai	IND-OR-04-MM-440
13	Maa Padmabati -III	IND-OR-04-MM-425
14	Maa Padmabati-li	IND-OR-05-MM-55
15	Maa Varasa	IND-OR-04-MM-410
16	Sri Pawan Putra	IND-OR-05-MM-72
17	Mamatamayee Maa	IND-OR-04-MM-197
18	Mrutunjaya	IND-OR-04-MM-327
19	Akbari -1	IND-OR-04-MM-418
20	Baba Lokanath	IND-OR-04-MM-175
21	Menaka	IND-OR-04-MM-214
22	Sri Mandir	IND-OR-04-MM-517



Pre-cooling practice onboard fishing vessels

- 101 nos. of trawlers in Paradeep harbour are now using square mesh cod ends.
- 250 nos of fishing boats in Chilka use Insulated fish box for preservation of catch. Post-harvest handling of fish has improved and they use good quality ice. Also, the fishing crafts are cleaned on a regular basis.
- 900 nos. of fishers use life jacket during fishing in Chilka Lake.

Impacts

1. Reduced post-harvest loss by 10 % due to adoption of chill killing/pre-cooling
2. The raw materials are getting better price.
3. In Chilka the yearly income has increased by around Rs 75,000 to 1,00,000



SWACCHATA PROGRAM

- Swachhata Campaign 3.0 focusing on the aspect of cleanliness of harbours was conducted by MPEDA-NETFISH, Bhubaneswar at Dhamara Harbour on 18.10.2023. The program was conducted with the participation of Harbour Management society, Govt. primary school, Harbour Officer, Fishers, Harbour workers, HDCs etc., A rally to spread the importance of "Clenliness drive" was taken up in the harbour premises and surrounding areas by Dhamara Govt. UP School students, teachers and staff. Dr. K Gopal Anand, AD, RD MPEDA took an awareness class highlighting the significance of Swachhata campaign, cleanliness drive, waste management and reduction

of single use plastics. The State Coordinator, NETFISH talked about need of the program, cleanliness of our environment, impact of plastics on marine environment etc.

T-Shirts, caps and hand gloves were provided to all the participants. Plastic wastes, thermocol pieces, torn net etc. collected from the harbour premises were handed over to the harbour management society's disposal staff. Bleaching powder was applied on unsanitary areas. About 103 participants have actively participated in the program vowing to make a change with effective implementation of cleanliness in their day to day activities and at work places.





Participants carried out rally inside the harbour



Cleaning activity in the harbour



Before and after view of the harbour area

SEAFOOD UNIT TRAINING PROGRAM

- Conducted 15 nos. of awareness training programs benefitting 670 processing workers, Supervisors, Technologists & Managers at Seafood Processing units in Odisha (see Table). The Awareness classes covered aspects such as hygiene & sanitation standards &

measures to be followed in seafood processing units, basic HACCP system, GMP & SSOPs, Personal hygiene, Microbiology, Documentation etc. Demonstration of hand washing, utensil washing techniques etc. were also carried out during the training. All the 15 programs were

conducted by collecting a training fee of Rs. 10000/- per program and thus a total of Rs.1.50 lakh was generated

as external income to NETFISH. The trainees were given certificates after each programme.

Sl.No	Name of the Processing Unit	Program Date	No: of Beneficiaries
1	M/s. Falcon Marine Exports Ltd, Balasore	30.03.24	40
2	M/s. Orchid Marine Exports Pvt Ltd., Balasore	14.08.23	30
3	M/s. B-One Business House pvt. Ltd., Khurda.	01.09.23	40
4	M/s. Maa Nachinda Sea Food Pvt. Ltd, Dhamara.	08.09.23	40
5	M/s. B-One Business House pvt. Ltd., Balasore	12.09.23	40
6	M/s. -Bhubaneswari Sea Food Pvt Ltd, Balasore.	19.09.23	40
7	M/s. Hari Marine Export Pvt Ltd, Balasore.	20.09.23	40
8	M/s. Magnum Sea Food, Khurda	09.10.23	30
9	M/S-Bhimaraj Sea Food Pvt. Ltd, Khurda	10.10.23	30
10	M/S. Ashadeep Aquaculture Pvt. Ltd, Balasore	13.10.23	30
11	M/s. Hiland Agro Pvt.Ltd, Balasore	20.10.23	30
12	M/s. Snow World Pvt. Ltd.,Balasore	22.11.23	40
13	M/s. Sreegaram Exports Pvt Ltd.,Nayagarh	30.11.23	40
14	M/s. L.N. Export, Paradeep	11.12.23	40
15	M/s. Magnum Estate Pvt. Ltd, Balasore.	13.12.23	40



Training Programme at Balasore

- In addition, 4 training programs were conducted for 120 nos. of the SC/ST Processing workers & Supervisors in seafood processing units (see table).

Sl.No:	Name of the Processing Unit	Program Date	No: of Beneficiaries
1	M/s. Maa Nachinda Sea Food Unit, Dhamara	06.12.23	30
2	M/s. Snow World Pvt. Ltd, Balasore	07.12.23	30
3	M/s. Hiland Agro Pvt. Ltd, Balasore	08.12.23	30
4	M/s. Harimarine Export Pvt. Ltd, Balasore	12.12.23	30

STAKEHOLDER'S MEETINGS

- A meeting with Assistant Register Co-operative Society, Balugan & District Fishery Officer (DFO), Balugan was conducted on 5th July 2024 at Balugan and discussed regarding implementation of SC/ST scheme for Chilka fishers.
- The State Coordinator along with the DD, MPEDA RD Bhubaneswar held a meeting with Orissa Marine fish Producer Association (OMFPA), the management society for Paradeep Fishing Harbour at Paradeep on 25.08.23 and had discussion on promotion of exports of sea caught varieties by exporters of Odisha region and problems faced by the fishermen in fishing operations. It was decided to conduct a buyer seller meet with fishermen and exporters.
- Attended in the 3 days Hands on training on Sea food value addition organized by MPEDA at M/s. Hiland Agro Export Pvt Ltd, Balasore during 15-17 Dec. 2023
- Attended in the workshop on Development and Implementation of TED in India organized by MPEDA-NETFISH at Visakhapattinam on 25.01.24.
- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Held a review meeting of the HDCs on 04.09.23 at Bhubaneswar
- Disseminated awareness messages regularly through 3 Whatsapp groups formed at 3 harbours, each message reaching around 500 fishery stakeholders.

OTHER ACTIVITIES

- The State Coordinator NETFISH attended the MPEDA stall at Janta Maidan, Bhubaneswar, Odisha arranged on the

4.3

ANDHRA PRADESH NORTH

Mr. Hanumantha Rao, State Coordinator, NETFISH has coordinated all the NETFISH activities in Northern coastal districts of Andhra Pradesh, which totaled to 230 programs including 56 nos. of general fund programs, 21 SC/ST programs,

3 external funded programs, 114 awareness classes by HDCs and 36 other activities (see Table). A total of 2104 fishery stakeholders in Andhra Pradesh North were benefitted by these programmes.

Table: Activities Conducted in Andhra Pradesh North during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	51	659
	Stakeholder Meetings organized by SCOs	3	23
	Swacchata program - Harbour cleanliness Drive	1	100
	TED Workshop	1	50
	Total General fund programs	56	832
2	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Program for SC Fishers	1	30
	Processing Centre Training for SC/ST workers	20	585
	Total SC/ST programs	21	615
3	EXTERNAL FUNDED PROGRAMS		
	Seafood Unit Training Program (Paid)	1	35

	No: of Trainings for Marine Observers under Marine Mammal Project	2	8
	Total (external funded programs)	3	43
4	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	114	614
	Training/Evaluation of HDCs	8	-
	Participation of SCO in meetings/classes organized by others	24	-
	Coordination of visit of officials from MPEDA & other Dept.	4	-
	Total (other activities)	150	614
	GRAND TOTAL	230	2104

HARBOUR BASED PROGRAMS

- Altogether 166 harbour based programs were conducted in Andhra Pradesh North during 2023-24. Of this 51 programs were arranged utilizing the NETFISH general fund, for the fishers at Vizag, Kakinada and Pudimadaka (see figure & Table.) and 1 program for the SC fishers in Bhimavaram using the SC fund of RD MPEDA. Rest of the programs (114 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table). Fishers, Boat owners, boat crew and Harbour workers including fisherwomen were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as Hand gloves, tarpaulin sheets, dust bins and fish tubs were given to the participants as an encouragement to adopt good practices.

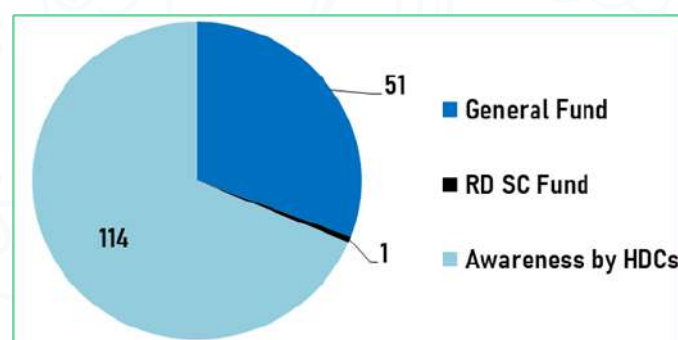


Fig. Category-wise Total number of programs conducted

Table: Harbourwise number of programs conducted

Harbour/LC	No: of Programs conducted	No: of beneficiaries
Visakhapatnam	44	574
Kakinada	6	57
Pudimadaka	1	28
	51	659



Harbour based training on pre-cooling practice & Hygienic handling

Awareness Programs / Meetings by HDCs



Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Visakhapatnam	38	196	Boat owners, crew, Auctioneers, Net menders, fisher women	Awareness program on hygienic handling of ice, fish quality management to reduce post harvest loss, save sea turtles and marine mammals, importance of eradication of single use plastics, importance of square mesh cod end
Kakinada	38	202		
Pudimadaka	38	216		
	114	614		

Table: Harbour-wise number of programs conducted by HDCs

Outcomes Achieved as a result of the Harbour Based Programs

- 20 more multiday Tuna fishing boats in Visakhapatnam adopted pre-cooling practice
- 16 boats practicing pre-cooling linked to a merchant exporter of M/s. Everblue Seafood Exports of Visakhapatnam have supplied Tuna fish of quality suitable for export by which the exporter made 7 chill fish shipments to USA.
- 50 boats in Visakhapatnam has started bringing clean sea water for handling catch in fishing harbour
- In Visakhapatnam 30% of auction of big fishes are done by keeping the fish on tarpaulin sheets
- 40% local fish market inside the Visakhapatnam fishing harbour has shifted to modern fish market

Impacts

- Multiday Tuna fishing boats in Visakhapatnam which follow pre-cooling are getting Rs.20-40/- more per Kg as they supply directly to exporter.



Proper handling, icing and packing of fish

SWACCHATA PROGRAM

- A harbour cleanup program commemorating Swachhata campaign 3.0 was conducted at fishing harbor, Visakhapatnam on 27th October, 2023 with the participation of 100 people, including Shri. Avatharam Naidu, Dy. Traffic Manager & staff of Visakhapatnam Port Authority, Smt. G.Vijaya, Joint Director & staff of Dept. of AP State Fisheries, Shri. R. Prasad Naik, Assistant Director, Sub Regional Division, MPEDA Visakhapatnam & staff, Sri. P. Hanumantha Rao, State Coordinator, NETFISH & HDC Vizag, officials from Dept. of Marine Police, Officials & students from Central Institute of Fisheries Nautical Engineering and Technology (CIFNET), Scientists from CMFRI, officials from FSI, Sanitary staff of Visakhapatnam Greater Municipal Corporation (GVMC), Presidents & members of 3 Major Fishermen Association & Fishery stakeholder groups from Visakhapatnam fishing harbour and NGOs. All the participants actively involved in cleaning the fishing harbour area.

The program started with a mass awareness meeting, in which it was briefed about the program, its importance

for Swachh Bharat mission, and explained on requirement of hygiene & sanitation in the fishing harbor, its effect on quality of fish and Indian seafood exports etc. Also given messages related to the fishery conservation through reduction of plastic pollution. The meeting was followed by cleanup drive and around 500 Kg of plastic waste is collected in offal bags. GVMC arranged big vehicle with sanitary staff to clean and clear all the debris collected. Visakhapatnam Port Authority (VPA) provided fire engine to clean the harbour premises with jet wash. Caps & T shirts printed with Swachh Bharat logo, MPEDA NETFISH logo and material required for cleaning like offal gunny bags, and brooms, mask and Hand Gloves were provided to all the participants. The difference from unclean to cleaned premises was shown to the fishers, users and NETFISH asked them to maintain it by doing regularly cleaning. The VPA and fishers are assured that that they will arrange dustbins for collection of waste and will identify and demark the new mass dumping yards for safe disposal of waste. Report on the event was published in leading daily news papers and aired in TV Channels.



Clean-up at Vizag harbour



Before and after cleaning of the Harbour

SEAFOOD UNIT TRAINING PROGRAM

➤ Conducted 21 nos. of awareness training programs benefitting 620 processing workers, Supervisors, Technologists & Managers at different Seafood Processing units in Andhra Pradesh. Of this 1 program held at M/s. Coastal Corporation Pvt. Ltd, Elamanchili, Anakapally District on 25.03.2024 was conducted by collecting a

training fee of Rs. 10,000/- from the exporter and 35 Processing, pre-processing and QC staff of the plant were benefitted by this program. Rest of the 20 seafood unit trainings were conducted for the SC/ST Pre-processing & Processing workers and Lab and production staff of various seafood units by utilising the SC fund of RD MPEDA (see table).

Sl. No:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	M/s. NK Exports	Duvva, Bhimavaram	16.11.2023	30
2	M/s. Varma Exports	Mogalturu, Bhimavaram	17.11.2023	25
3	M/s. Vasista Marine	Veeravasaram, Bhimavaram	30.11.2023	30
4	M/s. Sandhya Sea Foods Bhimavaram	Kalla, Bhimavaram	01.12.2023	25
5	M/s. Kader Exports Pvt. Ltd.	Gollalakoderu, Bhimavaram	10.01.2024	25
6	M/s. Choice Canning Company	Amalapuram, Dr. BR Ambetkar Konaseema District	06.02.2024	30
7	M/s. Choice Canning Company	Amalapuram, Dr. BR Ambetkar Konaseema District	07.02.2024	30
8	M/s. Choice Canning Company	Amalapuram, Dr. BR Ambetkar Konaseema District	08.02.2024	30
9	M/s. Sprint Exports Pvt. Ltd.	Bheemunipatnam, Visakhapatnam	02.03.2024	30

10	M/s. Danica Aqua Exports Pvt. Ltd.	Bhogapuram, Vizianagaram District	04.03.2024	30
11	M/s. Sprint Exports Pvt. Ltd.,	Bheemunipatnam Visakhapatnam	05.03.2024	30
12	M/s. Kader Exports Pvt. Ltd., Unit 3	Visakhapatnam	06.03.2024	30
13	M/s. Coastal Corporation Pvt. Ltd.	Marikavalasa, Visakhapatnam	07.03.2024	30
14	M/s. Lito Marine Exports Pvt. Ltd.	Anakapally District	08.03.2024	30
15	M/s. Naga Hanuman fish packers Pvt Ltd., Unit-I	Boyapalem, Visakhapatnam	09.03.2024	30
16	M/s. Coastal Corporation Pvt. Ltd.	Anandapuram Visakhapatnam	11.03.2024	30
17	M/s. Naga Hanuman Fish Packers Pvt. Ltd., Unit-II	Palavalasa Visakhapatnam	12.03.2024	30
18	M/s. Sandybay Seafoods(India) Pvt. Ltd.	Marikavalasa Visakhapatnam	13.03.2024	30
19	M/s. Abad Frozen Foods Pvt. Ltd.,	Anandapuram, Visakhapatnam	14.03.2024	30
20	M/s. Igloo Frozen Foods Pvt. Ltd.,	Gajuwaka, Visakhapatnam	15.03.2024	30



Trainings for the SC/ST workers in seafood units

The participants were trained on personal hygiene & sanitation standards in processing to maintain the quality of seafood for export. Contamination & Decomposition of fishery products, Preservation techniques, HACCP basics etc. were covered in the awareness classes. Demonstration on hand washing procedure, cleaning the working area, floor, crates and other utensils were also done. Power point presentation and animated videos developed by NETFISH were displayed and the required training materials including NETFISH leaflets were

distributed. The participants were satisfied with the topics explained during the training. Most of them assured that the best practices explained during the training will be implement in their regular work place.

Impacts

- The hand washing practice of the workers have improved and they are maintaining good personal hygiene.

STAKEHOLDER'S MEETINGS

Sl. No.	Date	Location	Purpose	No. of participants
1	19.05.23	Dist. Collector office, Kakinada	Discussed with DRDO, Project Director, DRDA staff & AD Fisheries on the available Self Help Groups, species, landing quantities, Infrastructure facilities required for dry fish processing and export etc. It was decided to conduct a workshop in this regard.	8
2	18.05.23	JD Fisheries Office, Kakinada	Discussion with the JD and AD of Fisheries Dept. regarding proposed dry fish project for export by the State Government. It was decided to meet DRDO officials and Asst. Collector for developing future plan.	5
3	30.06.23	Vizag	Held discussion with Boat owners& JD Fisheries on minimum supporting price to be fixed by the exporters to support the fishing industry. The JD Fisheries decided to convene a meeting with all the fishery stakeholders to solve the various issues in the harbour.	10

WORKSHOP ON DEVELOPMENT AND IMPLEMENTATION OF TED

- MPEDA-NETFISH in collaboration with ICAR-CIFT conducted a stakeholders' workshop on the 'Development and Implementation of Turtle Excluder Device (TED)' in Visakhapatnam, Andhra Pradesh on 25th January, 2024. State Coordinator, MPEDA-NETFISH delivered the welcome address. The program was inaugurated by Shri. V. Padmanabham, Managing Director, SSF Ltd & Former National President, Seafood Exporters Association of India(SEAI). CE NETFISH, Shri Jaybal. A, Joint Director, MPEDA Regional Division, Vijayawada and Dr.Joe Kizhakudan, Scientist in charge CMFRI Visakhapatnam offered felicitations. Shri. Anilkumar P, JD, MPEDA, highlighted the impact of the US ban on sea-caught shrimp in his presidential address, emphasizing the crucial need for stricter TED implementation in Indian trawlers. Shri Sakthivel A,

AD, MPEDA, provided a comprehensive presentation on US laws and the TED implementation framework in India. Dr. R. Raghu Prakash, Principal Scientist, CIFT Visakhapatnam, presented the design and specifications of TED. Also, the TED designed by CIFT was demonstrated to the participants during the workshop by Dr V.R Madhu Principal Scientist, CIFT Kochi. The workshop saw active participation from 50 stakeholders from East Coast including officials from CIFT, CMFRI, EIA, FSI, CIFNET, NETFISH, SEAI, State Government Fishery Nodal officers from Odisha & Andhra Pradesh and Puducherry fishermen associations etc. The workshop was concluded with healthy discussions with stakeholders. R. Prasadnaik AD MPEDA SRD Visakhapatnam delivered vote of thanks.



TED workshop for stakeholders from East Coast of India

OTHER ACTIVITIES

- Attended Global Maritime India Summit Road Show organized by Port Authority at Hotel Novotel on 23.08.23
- Attended the meeting conducted 06.07.23 by Deputy Chairman, VPA regarding development of Seafood Hub in Vizag fishing harbour
- Attended Workshop on current Fisheries policies and impact on fishers and fisheries organized by IMSE West Bengal & SSFFPO Vizag on 28.08.23 at YMCA Youth Hostel, Vizag
- Attended exporters meeting conducted by Port Authority, Vizag on 08.01.24
- Attended the 66th ICAR-CIFT Foundation day program organized by CIFT Vizag on 28.04.22
- Attended the DRDA meeting on 23.06.23 with Asst. Collector Under Training along with the DRDA and Dept. of Fisheries officials to discuss about the Dry fish development project to SHG group
- Attended the exporters meeting organized by SRD, Vizag on 17.08.23
- Attended the online Launching of the 'Report Fish Disease' App by Krishi Bhavan, New Delhi on 28.06.23
- Attended the program "Matsya Sampada Jagrukta Abhiyan" conducted by CIFNET on 23.01.24
- Attended the Seafood exporters monthly meeting conducted on 05.04.23 by the SRD Visakhapatnam
- Attended the Visakhapatnam Fishing Harbour High level Management Committee to discuss on Harbour up gradation with Rs. 152 Cr. of central funds conducted by Dept. of Fisheries on 20.05.23 at Collector Office, Visakhapatnam
- Attended in 3 nos. of 3 days Hands on training on Sea food value addition organized by MPEDA in Kochi, M/s. Abad Overseas Pvt Ltd, Sriperambdur Tamilnadu, & M/s. Sandhya Aqua Exports, Pamarru Andhra Pradesh during 21- 23.11.23, 11- 13.12.23, & 07- 09.12.23 respectively.
- Participated in the Harbour committee meeting at Kakinada on 08.11.23
- Participated in the Harbour committee meeting at Vizag on 01.11.23
- Participated in the Program to Fishery students on harbour activities & Seafood processing on 22.01.24 at Vizag

- Coordinated and attended the monthly exporters meeting jointly conducted by MPEDA, NETFISH & Dept. of Fisheries, AP. on 07.0.23 at FSI, Vizag
- Coordinated with DRDA for Dry fish awareness program on 11.07.23 SIFT, Kakinada
- Coordinated with DRDA for Value added training program for fisher women on 26.07.23 at CIFT, Vizag
- Coordinated with RD MPEDA In the clean-up program at Zoo park, Vizag on 20.10.23
- Coordinated with SRD MPEDA in beach cleanup program at Bheemunipatnam, Vizag on 30.10.23
- SCO attend for inaugural function of Facility for the production of Value added fishery products on 21.10.23 at Uppulanka, Kakinada
- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc.
- Assessment of activities of the HDCs at Pudimadaka, Visakhapatnam & Kakinada were done
- Coordinated the visit of Shri. K.S.Viswanathan, IAS, Joint Collector of Visakha District on 24.05.23 to see the harbour up gradation works at Vizag and to see the possibility of works to be added in the existing DPR suggested by the fishery stakeholders of harbour. To control the Post-harvest loss another jetty was finalized to construct.
- Coordinated the visit of Vietnam Team to seafood processing unit at Visakhapatnam on 23.12.23
- Disseminated about 312 awareness messages through 3 whats app groups formed at 3 harbours, each message reaching around 280 fishery stakeholders.



Attending Value addition training at Vijayawada & Meeting on Dry fish project at Kakinada



Harbour Committee Meeting at Vizag & Value added product facility at Kakinada

TRAINING ON MODERN FISH DRYING PRACTICES AND VALUE ADDITION



3 days Hands on training on Modern Fish drying practices and Value addition to Fisher women of Kakinada was conducted in 2 batches at Central Institute of Fisheries Technology (CIFT) Visakhapatnam. The program was organized jointly by MPEDA NETFISH & DRDA Kakinada with the fund support of DRDA Kakinada. 40 fisher women and Traders from Uppalanka fish landing center Kakinada were trained. Hands on training on modern hygienic fish drying practices, Value added fishery products for ready to eat, ready to cook and pickles were arranged.

DRDA Kakinada arranged a hygienic facility with modern equipment to the trainees at their village for the production of ready to eat products and was inaugurated by local MLA and DRDA officials and now producing products and supplying to the nearest tourist center maintained by Dept of Forest. Beneficiaries are getting Rs.50-60/- more per Kg by doing value addition.

4.4 ANDHRA PRADESH SOUTH

Dr. Murali Mohan M., State Coordinator, NETFISH has coordinated all the NETFISH activities in Southern coastal districts of Andhra Pradesh, which totaled to 288 programs including 70 nos. of general fund programs, 9 SC/ST programs, 3 external

funded programs, 194 awareness classes by HDCs and 12 other activities (see Table). A total of 2355 fishery stakeholders in Andhra Pradesh North were benefitted by these programs.

Table: Activities Conducted in Andhra Pradesh South during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	63	626
	Dry fish Development programs	6	127
	Swacchata program – Harbour cleanliness Drive	1	145
	Total General fund programs	70	898
2	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Processing Centre Training for SC/ST workers	9	268
	Total SC/ST programs	9	268
5	EXTERNAL FUNDED PROGRAMS		
	No: of Trainings for Marine Observers under Marine Mammal Project	3	6
	Total (external funded programs)	3	6
6	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	194	1183
	Training/Evaluation of HDCs	4	-
	Participation of SCO in meetings/classes organized by others	7	-
	Coordination of visit of officials from MPEDA & other Dept.	1	-
	Total (other activities)	206	1183
	GRAND TOTAL	288	2355

HARBOUR BASED PROGRAMS

➤ Altogether 258 harbour based programs were conducted in Andhra Pradesh South during 2023-24. Of this 63 programs were arranged utilizing the NETFISH general fund, for the fishers at Machilipattinam & Vodarevu (see figure & Table). Rest of the programs (194 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table). Fishers, Boat owners, boat crew and Harbour workers including fisherwomen were the targeted beneficiaries of

these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as Hand gloves, tarpaulin sheets and gum boots were given to the participants as an encouragement to adopt good practices.



Training on pre-cooling practice & Hygienic handling for fishers

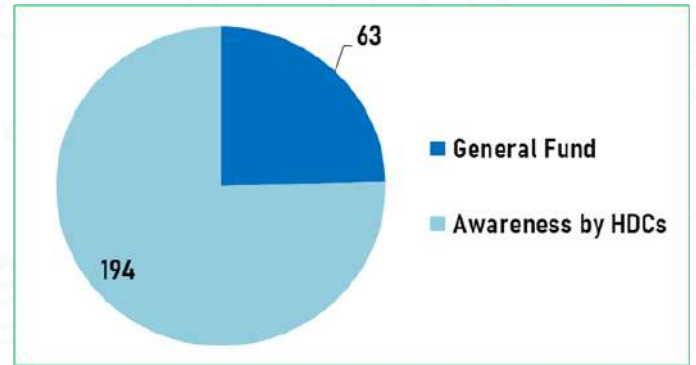


Fig. Category-wise Total number of programs conducted

Table: Harbourwise number of programs conducted

Harbour/LC	No: of Programs conducted	No: of beneficiaries
Machilipattinam	58	537
Vodarevu	5	89
Total	63	626

Awareness Programs/ Meetings by HDCs



Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Machilipatnam	83	478	Boat owners, crew, Auctioneers, Net menders, fisher women	Post-harvest loss, Chill killing, Eradication of single use plastic from sea, Boat cleaning, Hygienic handling of fish and ice, Impacts of Juvenile fishing, Advantages and disadvantages of square mesh cod ends & Hygienic Fish drying practices
Vodarevu LC	98	612		
Nizampatnam	13	93		
Total	194	1183		

Table: Harbour-wise number of programs conducted by HDCs

Outcomes Achieved as a result of the Harbour Based Programs



New Auction Hall at Machilipatnam Harbour

- New Auction hall with raised tiled platforms came in to operation at Machilipattinam
- Auction area are cleaned after trading hours at Machilipattinam & Vodarevu



Hygienic handling and packing of fish at harbours

- Fishers use gum boots, gloves and pvc shovels while handling ice and good quality crushed ice is being supplied to boats
- 30% boats at Machilipattinam do ice crushing directly into crates in fishing vessels
- Tarpaulin sheets are used for keeping fish for auction at Machilipattinam & Vodarevu
- Trolleys are used for Hygienic handling of catch
- Entire harbour area is cleaned twice in a week, on Wednesday and Saturday
- 30 fishing boats at Machilipattinam practice pre-cooling/ Chill killing for shrimps and High value fishes

Impacts

- By adopting hygienic handling and preservation methods the price and quality of fish has improved and are fetching Rs. 5 to 10 extra per Kg.
- As a result of pre-cooling practice, blackening of shrimp gills has been reduced by 40% and the shrimp price has increased by Rs.20 per Kg.

DRY FISH DEVELOPMENT PROGRAMS

- Conducted 6 nos. of dryfish development programs in Vodarevu, providing training to 127 dryfish workers on hygienic handling and methods for the production of good quality dryfish items. Tarpaulin sheets were provided to the participants to encourage them to use it for keeping fish for drying thereby avoiding drying on bare soil.



Dryfish women with tarpaulins for fish drying



Using tarpaulin sheets to keep fish for drying

Outcomes Achieved as a result of the Dryfish Development Programs

- This year two groups of women, each group consisting of 10 members were formed and engaged in packing Dryfish in hygienic manner and supplying to the nearby mini and medium selling outlets/ malls and also taking bulk orders for supply.
- Now 40% fish dryers use tarpaulin sheets for keeping fish for drying in hygienic manner.
- Hygienically dried fishes are attracting more customers/ tourists/wholesale buyers in Vodarevu Dryfish Market area. 25% market size and turnover has increased from last year through establishment of small size shops and household market points.
- Good quality products are getting Rs.20 to 25 extra per Kg.

SWACCHATA PROGRAM

- The cleanliness drive at Vodarevu FLC, Bapatla Dist. was conducted on 27.10.2023 in association with NCC 23 Chirala battalion. Colonel Goutham Savang, Commanding Officer of 23 battalion; R Rajkumar FDO, State Fisheries Department; B Srinu, Panchayath President; S Tirumala Rao, Matyakara Sankshema Samithi President were the dignitaries present. Awareness classes about the importance of cleanliness drive, impacts of single use plastic, significance of Swachhata campaign etc. were taken by Dr. M. Murali Mohan, SCO NETFISH and S. Tirumala Rao. After the class, importance of personal hygiene and cleanliness in fish auction, cleaning and selling areas were explained to the fishers by NCC students. Then a rally to spread messages on the importance of 'cleanliness drive' and 'eradication of plastic pollution' was

conducted along the harbour premises and surrounding areas by the fishers and students. T-shirts, caps, hand gloves and other cleaning and collecting material were provided to all the participants. Two loads of wastes consisted of plastic wastes, thermocol, unused nets etc. were collected from the beach road and harbour premises and handed over to the Municipal Corporation for proper

disposal. A total of 120 NCC staff and other 25 participants from different groups have actively participated in the program. Colonel Gotham Savang, NCC Commanding officer presented a memento to MPEDA-NETFISH for the efforts and programs conducting for the fishermen. The HDCs of Machilipatnam FH and Vodarevu FLC coordinated the program successfully.



Cleanliness drive at Vorarevu

SEAFOOD UNIT TRAINING PROGRAM

- Conducted 9 nos. of awareness training programs benefitting 268 processing workers, at different Seafood Processing units in Andhra Pradesh. All the trainings were conducted for the SC/ST Pre-processing & Processing workers by utilising the SC/ST fund of RD MPEDA (see table). The participants were trained on personal hygiene & sanitation standards in processing to maintain the quality of seafood for export. Awareness on Fish spoilage,

Role of ice & water, Hygiene and sanitation, Good handling practices & Personal Hygiene, Pre-processing, grading & processing and Value added fishery products etc. were given during the training. Demonstration on hand washing procedure, cleaning the working area, floor, crates and other utensils were also done. Power point presentation and animated videos developed by NETFISH were displayed and the required training materials including NETFISH leaflets were distributed.

Sl. No:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	Shrikanth International	Kaikaluru, West Godavari	22-09-23	30
2	Munnagi Seafoods	Nellore	31-10-23	30
3	Southern Tropicals	Nellore	21-11-23	30
4	Royal Marine I	Ongole	30-01-23	30
5	Abad Overseas	Gunture	31-01-23	30
6	BMR Industries	Nellore Dist	07-02-24	30
7	Penver Products	Gudur Dist	08-02-24	30
8	Sandhya Aqua	Pamaru, Krishna	14-02-24	30
9	Sai Marine	Nellore	06-03-24	30



Training at Seafood Unit

OTHER ACTIVITIES

- Meeting with Marine Observers were held at Machilipattinam, Nizampattinam and Vijayawada in the month of May 2025 and provided awareness on importance of Marine mammals & turtles in marine ecosystem, various species of Marine mammals & turtles in Indian seas, the need for data collection to comply with
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals/turtles and data collection, Guidelines of SC/ST training programs etc.
- Attended Ocean information and advisory services workshop conducted by INCOIS on 7.07.23.

the regulations of seafood importing countries and the methodology for data collection.

- Attended the TED workshop conducted at Visakhapatnam on 25.01.24.
- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi.
- Participated in "Swachh Sagar Surakshith Sagar" Coastal

clean-up campaign organized by INCOIS on 16.09.23.

- Participated in Swachhta Campaigns organized by RD Vijayawada during October 2023.
- Disseminated awareness messages through the Whatsapp groups formed at 3 harbours, reaching the fishery stakeholders on a regular basis.



Participation in Swachhata programs

4.5

TAMILNADU NORTH

Dr. Arulmoorthy M.P., State Coordinator, NETFISH has coordinated all the NETFISH activities in Northern coastal districts of Tamilnadu & Pondicherry, which totaled to 388 programs including 36 nos. of general fund programs, 34 SC/ST

programs, 9 external funded programs, 283 awareness classes by HDCs and 26 other activities (see Table). A total of 2930 fishery stakeholders in Tamilnadu were benefitted by these programs.

Table: Activities Conducted in Tamilnadu North during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	30	490
	Stakeholder Meetings organized by SCOs	5	-
	Swacchata program	1	120
	Total General fund programs	36	610
2	NETFISH SC FUND PROGRAMS		
	Harbour based Program for SC Fishers	2	60
3	NETFISH ST FUND PROGRAMS		
	Harbour based Program for ST Fishers	10	300
4	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Harbour based Program for SC Fishers	19	570
	Harbour based Program for ST Fishers	3	90
	Total SC/ST programs	34	1020
5	EXTERNAL FUNDED PROGRAMS		

	Seafood Unit Training Program (Paid)	4	118
	No: of Trainings for Marine Observers under Marine Mammal Project	5	16
	Total (external funded programs)	9	134
5	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	283	956
	Training/Evaluation of HDCs	3	-
	Participation of SCO in meetings/classes organized by others	11	-
	Coordination of visit of officials from MPEDA & other Dept.	1	-
	Ornamental fish Health Certification	9	-
	MY Bharat Programs	2	210
	Total (other activities)	309	1166
	GRAND TOTAL	388	2930

HARBOUR BASED PROGRAMS

- Almost 89% of the activities ie. 347 programs conducted in Tamilnadu during 2023-24 were harbour based programs. Of these, 34 programs were conducted exclusively for the SC/ST category fishers and 30 programs were conducted utilizing the NETFISH general fund (see Table & Fig.). Rest of the programs (283 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table). Fishers, Boat owners, Skippers and Harbour workers were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as plastic drum, plastic sheet, plastic baskets, cleaning brush, plastic crates and cotton knitted gloves were given to the participants as an encouragement to adopt good practices.



Harbour based trainings for fishers

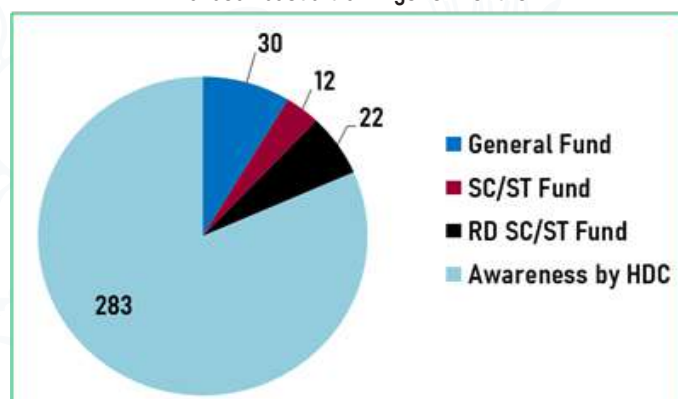


Fig. Category-wise Total number of programs conducted





Training for SC fishers

Table: Category-wise number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of beneficiaries
NETFISH General Fund Programs		
Pazhayaru	25	405
Nagapattinam	02	30
Cuddalore	03	55
Total	30	490
NETFISH SC Fund Programs		
T.S.Pettai	01	30
Targas	01	30
Total	2	60
NETFISH ST Fund Programs		
T.S.Pettai	01	30
Targas	02	60
MGR Nagar	03	90
Kalaingar Nagar	02	60
Shanmuga Nagar	02	60
Total	10	300
RD SC Fund Programs		
Pulicat	03	90
Targas	03	90
Kottaikadu	04	120
Kodiyakarai	04	120
Kundrukadu	03	90
Pazhayaru	02	60
Total	19	570
RD ST Fund Programs		
Kalaingar Nagar	01	30

Thalapathy Nagar	01	30
Targas	01	30
Total	3	90

Awareness Programs / Meetings by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Pulicat	33	84	Fishers, harbour workers	Sustainable fishing, Ice and Fish, Hygienic Handling of Fish & Ice, Marine Mammals, Square Mesh, TED, Precooling Method.
Chennai	53	252		
Pondicherry	30	100		
Cuddalore	24	60		
Mudasalodai	18	69		
Pazhayaru	29	82		
Poombuhar	24	75		
Karaikal	20	56		
Nagapattinam	24	63		
Kodiyakarai	28	115		
Total	283	956		

Table: Harbour-wise number of programs conducted by HDCs

Outcomes Achieved as a result of the Harbour Based Programs

- 40 trawlers in Pazhaiyaru has adopted pre-cooling practice onboard

Impacts

- The boats following pre-cooling of catch immediately after harvest are getting Rs.80-100 extra per Kg.

SWACCHATA PROGRAM

- On 20th October 2023, a harbor clean-up drive was conducted at Poombuhar Fishing Harbour, Sirkali, Mayuladuthurai, Tamil Nadu to commemorate the Swacchata campaign 3.0. The aim of the program was to create awareness among the public and fishing communities about the importance of cleanliness of the Fishing Harbour and Coastal areas. A total of 120 members including students from the NSS unit of Poombuhar College, Fishermen and Sagamitras from State Fisheries had participated in the program. Ms. Selvi Virginia, Inspector of Police, Marine enforcement wing, Ma-

yuladuthurai, Tmt. Thirumalai, Sub Inspector of Marine Police, Poombuhar, Dr. B. Sankar, Assistant Professor (Dept. of Botany) & NSS Coordinator, Poombuhar College, Dr. M. Aruldoss, Associate Professor (Dept. of Tamil) & NSS Coordinator, Poombuhar College, Dr. R. Indira, Assist.Professor (Dept. of Philosophy) & NSS Coordinator, Poombuhar College, Dr.Suresh, Scientist, MSSRF, Police Department officials, Poombuhar, were the dignitaries present. Ms. Selvi Virginia inaugurated the program. Dr. Santhanaraj, NSS Coordinator, Poombuhar College, and Dr. M. P. Arulmoorthy, SCO MPEDA-NETFISH delivered talk about the importance of cleanliness of harbor and coastal environment.

After the inaugural function all the participants had actively involved in the cleaning process by collecting wastes from the harbour premises. The participants were divided into fifteen groups and conducted the cleaning process. About 28 nos. of gunny bags full of wastes were collected and handed over to the municipal & harbor cleaning staffs. Reports on the event were published in local news media.



Cleanup event at Poombuhar

SEAFOOD UNIT TRAINING PROGRAM

- Conducted 4 nos. of awareness training programs benefitting 118 processing workers, Supervisors, Technologists & Managers at 4 Seafood Processing units in Tamilnadu (see Table). The Awareness classes covered aspects such as hygiene & sanitation standards & measures to be followed in seafood processing units, basic HACCP system, GMP & SSOPs, Personal hygiene,

Microbiology, Value addition of fishery products, traceability system, Documentation etc. Demonstration of hand washing, utensil washing techniques, preparation of different value added products etc. were also carried out during the training. All the 4 programs were conducted by collecting a training fee of Rs. 10000/- per program and thus a total of Rs.40000 was generated as external income to NETFISH. The trainees were given certificates after each program.



Training in seafood units

Sl.No:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	M/s. Peter & Paul Processing plant	Thiruvalluvar	07.06.23	30
2	M/s. Kaushalya aqua exports	Chennai	29.07.23	30
3	Setharapet	Pondicherry	25.09.23	28
4	M/s. KV marine Exports	Kelambakkam	11.10.23	30

STAKEHOLDER'S MEETINGS

Date	Location	Purpose
19.05.23	AD Fisheries Office, Neelankarai	Discussion with AD Fisheries regarding selection of SC/ST fishermen beneficiaries
26.05.23	AD Fisheries Office, Villupuram	Discussion with AD Fisheries regarding selection of SC/ST fishermen beneficiaries
13.07.23	Pazhayar	Discussion with fishermen leaders
28.03.24	Pondicherry	Discussion with State Fisheries Officials regarding TED implementation
05.07.23	Dept. of Fisheries, Tamil Nadu	Discussion with AD Fisheries regarding supply of Insulate Fish box for SC/ST fishers
23.05.23	Pazhaverkadu	Visited SC/ST fishermen villages and had discussion with the society leader regarding IFB distribution
22.03.24	Chennai	Discussion with State Fisheries Officials regarding TED implementation

MY BHARAT PROGRAMS



- Coordinated the two events carried out under the MY Bharat program by RD Chennai. The first event was a Beach Cleanup at Cuddalore Silver Beach on 8th March 2024, on the theme 'Save our seas from Plastic Pollution'. A total of 140 participants including NSS Students and Staffs from Thiruvalluvar Arts and Science College, Cuddalore Dt. had attended the event. The students collected the plastic materials and other biodegradable wastes from the beach area and disposed them safely. Another event was an exposure visit to Nagapattinam Harbour & M/s. MSJ Sea foods on 21.03.2024, which was attended by 65 nos. of students and staffs from Poombuhar College, Mayuladuthurai Dt. They got an insight to the harbour activities and post-harvest handling and processing of the seafood items.

OTHER ACTIVITIES

- Coordinated with DD, MPEDA for conducting Buyer Seller meet with Korean Delegates on 07.08.23
- Attended the Harbour Management committee meeting at Port Trust, Chennai on 13.04.23
- Attended Chennai FH management committee meeting and visited RSETI, Chengalpattu on 02.08.23
- Attended in the workshop on Development and Implementation of TED in India organized by MPEDA-NETFISH at Visakhapatnam on 25.01.24.
- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Attended training program organized on 16.05.23 by Pondicherry Fisheries Dept. and delivered lecture on "alternative livelihood to fishermen"
- Attended Workshop on "Promotion of Square Mesh Cod End in Trawl Nets" organized by WWF at Raintree Hotel, Chennai on 15.06.23
- Did Inspection of fishing boat along with DD, MPEDA at Kasimedu FH on 20.04.23
- Took part in the Swacchata Cleanup program organized by MPEDA RD Chennai at Periya Neelankarai on 30.10.23
- Attended in the 3 days Hands on training on Sea food value addition organized by MPEDA at M/s. Abad Overseas Pvt. Ltd. Sriperumbadur during 11-13 Dec 2023.
- Gave training to Sagar Mitras under PMMSY scheme at AD Fisheries office, Chengalpattu on 09.06.23
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc. and did

- monitoring of the HDCs activities at various harbours.
- Visited Andaman Islands during 23rd to 27th March 2024 for verifying the infrastructure available in the existing processing facilities in Andaman.
- Inspection of Ornamental fish for export were done & issued 9 nos. of Health Certificate to various ornamental fish export units.
- Disseminated about 148 awareness messages through 24 Whatsapp groups formed at 10 harbours, reaching around 8209 fishery stakeholders.

4.6
TAMILNADU SOUTH

Dr. Vinoth S Ravindran, State Coordinator, NETFISH has coordinated all the NETFISH activities in Southern coastal districts of Tamilnadu, which totaled to 372 programs including 36 nos. of general fund programs, 23 SC/ST programs, 9 external funded programs, 281 awareness classes by HDCs and 23 other activities (see Table). A total of 2988 fishery stakeholders were benefitted by these programs.

Table: Activities Conducted in Tamilnadu South during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMMES		
	Harbour based Programs	23	363
	Dryfish Development Program	10	202
	Stakeholder Meetings organized by SCOs	2	-
	Swacchata program	1	130
	Total General fund programs	36	695
2	MPEDA RD/SRD SC & ST FUND PROGRAMMES		
	Harbour based Program for SC Fishers	23	660
	Total SC/ST programs	23	660
3	EXTERNAL FUNDED PROGRAMMES		
	Seafood Unit Training Program (Paid)	5	160
	No: of Trainings for Marine Observers under Marine Mammal Project	4	25
	Total (external funded programs)	9	185
4	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	281	1298
	Training/Evaluation of HDCs	9	
	Participation of SCO in meetings/classes organized by others	9	
	Coordination of visit of officials from MPEDA & other Dept.	2	
	MY BHARAT Programs	3	150
	Total (other activities)	304	1448
	GRAND TOTAL	372	2988

HARBOUR BASED PROGRAMS

Almost 88% of the activities ie. 327 programs conducted in Tamilnadu South during 2023-24 were harbour based programs. Of these, 23 programs were conducted exclusively for the SC/ST category fishers and 23 programs were conducted utilizing the NETFISH general fund (see Table & Fig.). Rest of the programs (281 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see

Table). Fishers, Boat owners, Skippers and Harbour workers were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as plastic baskets, gumboot, plastic shovel and lifebuoy were given to the participants as an encouragement to adopt good practices.



Harbour based training at Tharuvaikulam

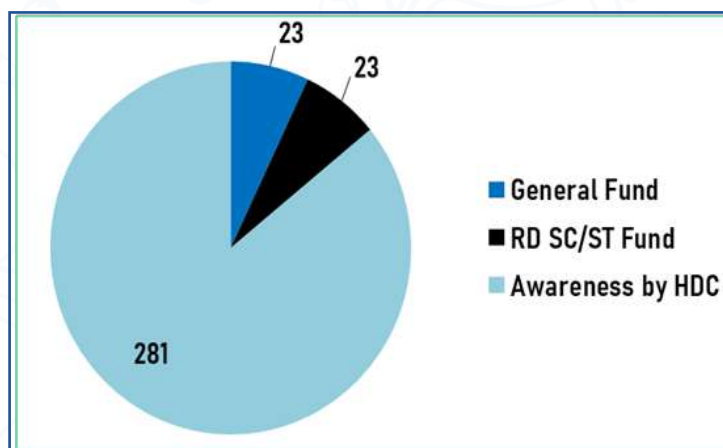


Fig. Category-wise Total number of programs conducted

Table: Category-wise number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of beneficiaries
NETFISH General Fund Programs		
Tharuvaikulam	16	253
Thengapattinam	6	95
Thuthoor	1	15
Total	23	363

RD SC Fund Programs		
Ramnad	16	480
Tuticorin	7	180
Total	23	660

Awareness Programs/Meetings by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Thengaipattinam	39	197	Fishermen, Auctioner, Mechanized Boat owners, country craft owners	Hygienic handling of fishes onboard FV, hygienic handling of fishes at Harbour/LC, Chill killing/Precooling Method, Sustainable fishing, Hygienic Handling of Ice, Marine Mammals, Square Mesh, TED etc.
Colachel	31	147		
Chinnamuttom	64	290		
Tuticorin	31	139		
Tharuvaikulam	36	217		
Mallipattinam	29	114		
Kottaipattinam	3	5		
Mandapam	24	92		
Rameswaram	24	97		
Total	281	1298		

Table: Harbour-wise number of programs conducted by HDCs

Outcomes Achieved as a result of the Harbour Based Programs

- At Tharuvaikulam 60% of the vendors and fishers have abstained from sorting the fishes with legs and slippers.
- Harbour/Auction hall cleaning is done on a daily basis at Tharuvaikulam, Thengaipattinam & Tuticorin harbours
- Personal hygiene of the fish handling workers at Tharuvaikulam & Thengaipattinam have improved
- Practice of using plastic shovels instead of rusted shovels have increased at Tharuvaikulam, Thengaipattinam, Tuticorin harbours and in Thondi, Mullimunai & Uppoor areas.
- Practice of wearing gum boots, hand gloves while handling the catch has increased at Tharuvaikulam (75%), Thengaipattinam (85%) and Tuticorin (40%).
- At Tharuvaikulam and Tuticorin only plastic crates/plastic baskets are used for transporting fishes from boat to auction hall. In Thondi, Mullimunai & Uppoor areas 30% of the fishers have adopted using plastic baskets.
- At Tharuvaikulam the practice of covering large fishes such as Tuna, sail fish and sword fish with tarpaulin to protect from sun rays and heat shock has increased to 60%.
- In Tharuvaikulam & Thengaipattinam 20-25% of the deep sea fishers have adopted chill processing in their boats, especially for big fishes. The fishes are chill killed/slurry treated in 2:1 ratio and stored in ice at 4°C in the fish hold.
- In Tharuvaikulam & Tuticorin 90% of the boats are cleaned with bleaching powder and water before and after voyage.
- In Tuticorin 90% of the fishing vessels take clean and sufficient ice before voyage and fish is preserved in 1:1 ratio. In Thondi, Mullimunai & Uppoor areas usage of ice has increased (40%).
- In Mallipattinam, about 40 % of auctioning is done by keeping the fish on HDPE mats.



Use of plastic crates for fish handling at Rameswaram and Tuticorin



Proper icing of catch at Pamban & Thengaipattanam



Hygienic handling of Yellowfin Tuna



Hygienic ice handling practices at Thengaipattinam, Tharuvaikulam & Rameswaram



Regular washing of fishing vessels and harbour and use of trolley for transportation

Impacts

- As a result of the improvement in hygienic practices at Tharuvaikulam, Thengaipattinam, Tuticorin & Mallipattinam harbours, salmonella, vibrio and filth contamination has reduced considerably and therefore the rejections from MPEDA, SRD Tuticorin region is negligible resulting in higher revenue.
- By adoption of pre-cooling/chilling onboard, the purchase rate of fishes above 30 kgs have gone up by Rs. 10-20/kg on an average.
- In Thondi, Mullimunai & Uppoor areas 5% increase in fish price is observed due to hygienic handling.

DRY FISH DEVELOPMENT PROGRAM



Training on hygiene in fish drying for fisherwomen

- 10 nos. of dryfish development awareness programs were conducted benefitting 202 dryfish stakeholders in Tuticorin, Thengapattinam, Thuthoor & Chinnamuttom areas. The major beneficiaries were the Dry fish Processing Women, Processors, Merchants and the Members of SCFPCL. Tarpaulin sheets were provided to the trainees to encourage the fishers to use them for keeping fish for drying, instead of bare sand/roads.

Table: Number of Dryfish programs conducted in Tamilnadu South regions

Harbour/LC	No: of Programs conducted	No: of beneficiaries
Tuticorin FH	5	100
Thengapattinam FH	2	40
Thuthoor	1	22
Chinnamuttom	2	40
Total	10	202

Outcomes Achieved as a result of the Dryfish Programs

- The fishers (35%) in Kanyakumari & Tuticorin area have started using HDPE mats for keeping fishes for sun drying

Impacts

- Hygienically dried fishes attract more dry-fish merchants and the dry-fish processing fisherwomen get enhanced revenue. The sector is showing growth, which can benefit the export industry also in future.



Drying fish on HDPE mats

SWACCHATA PROGRAM

- On 27.10.2023, a coastal clean-up program was conducted at Roach Park Coastal Area. The program was inaugurated by Thiru. P. Jegan, Mayor of Tuticorin Municipal Corporation. Dr. Vinoth Ravindran delivered the welcome address and Dr. Shassi, DD MPEDA delivered the felicitation address. About 25 students from Fisheries College and Research Institute, Tuticorin, 30 students from NSS unit of Subbiah Vidyalayam GHSS, Tuticorin, Cadets of Coast Guard and Indian Navy, Scientists and staffs of CMFRI, Tuticorin, Members of Pearl City Nature Trust, Fishermen and general public took part in the event. The various group of participants cleaned the coastal area including the mangrove area. About 3 tonnes of debris including plastic wastes, thermocol, bottles were removed and handed over to the Tuticorin Municipality. Dr. Shassi, DD, MPEDA distributed mementos to Students of Subbiah Vidyalayam GHSS, who has won in the Drawing competition on "Coastal Cleanliness" conducted earlier by MPEDA-NETFISH in the school. The participants were provided with refreshments, breakfast and cleaning kits.





Clean-up program at Roach Park Coastal Area

SEAFOOD UNIT TRAINING PROGRAM

➤ Conducted 5 nos. of awareness training programs benefitting 160 processing workers, Supervisors, Technologists & Managers at 4 Seafood Processing units in Tamilnadu South (see Table). The Awareness classes covered aspects such as Fish spoilage, Role of ice & water, Hygiene and sanitation, Good handling practices & Personal Hygiene, Covid -19 Guidelines, Pre-processing, grading & processing, Value added fishery products, HACCP, Microbiology, Traceability etc. The trainings included practical sessions on Traceability, Pre-processing, grading & processing, Hygienic handling practices, personal hygiene and sanitation Protocols. All the programs were conducted by collecting a training fee of Rs. 10000/- per program and thus a total of Rs.50000 was generated as external income to NETFISH. The trainees were given certificates after each program. The participants opinioned that their knowledge on processing technologies has highly improved and they are satisfied with the training imparted.



Training for processing workers

S.N:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	Edhayam Frozen Foods Pvt Ltd	Pudhukottai, Tuticorin	10.07.2023	35
2	M/S Gladston Exports	Muttom, Kanyakumari	11.08.2023	25
3	M/s Asvini Fisheries Pvt Ltd	Palayakayal, Tuticorin	27.09.2023	35
4	M/s Kadal Kanny Frozen Foods	Shanmugapuram, Tuticorin	16.02.2024	35
5	M/s Baby Marine Eastern Exports	Mandapam, Ramnad	08.03.2024	30

Impacts

- Comparatively, the MPEDA, SRD Tuticorin region had very few COVID 19 rejections and GACC suspensions. The incidence of salmonella and filth rejections are also low.

STAKEHOLDER'S MEETINGS

Date	Location	Purpose
14.07.23	Thuthoor	SCFPCL-FPO Deep Sea Fisheries Stakeholders meeting
19.07.23	Mandapam & Rameshvaram	Stakeholders meeting with Flower prawn/Cuttle fish/Blue Swimming Crab processors

MY BHARAT PROGRAMS

- Coordinated the three events carried out under the MY Bharat program by SRD Tuticorin.

The first one entitled "Explore the Potential and prospects of seaweed farming' was on 12th March 2024 in which 50 Students of Dept of Oceanography and Coastal Area Studies, School of Marine Sciences, Alagappa University had attended. Seaweed Cultivation and Its importance and potential of seaweed resources were explained during the classroom session. Field demonstration of seaweed cultivation at MPEDA-RGCA Artemia Project, Uppoor, Ramnad was also arranged for the students. Dr. Shassi, S, DD, MPEDA, SRD, Tuticorin; Dr. Vinoth S Ravindran, State Coordinator, MPEDA-NETFISH, Tuticorin; Mr. Samayakkanan, SSO, RGCA-Uppoor; Mr. Arul Raj, JTO, MPEDA; Dr. Deiva Oswin Stanley, Director, Eco-Balance Consultancy, Gujarat; Dr. Ravikumar, Professor & Head, Dept. of Oceanography and Coastal Area Studies, School of Marine Sciences, Alagappa University, Thondi were the dignitaries present.

The second event entitled 'Learn the production techniques of Nation's own Artemia Cysts' was on 13th March 2024 which was attended by 55 students of Dept of Oceanography and Coastal Area Studies, School of Marine Sciences, Alagappa University. Classroom Session to youth on production techniques of Nation's own Artemia Cysts & Field demonstration of artemia cultivation, harvesting and packing techniques at MPEDA-RGCA Artemia Project, Uppoor, Ramnad were arranged.

In the third event entitled Seafood Sector-Prospects & opportunities and it held on 22nd March 2024 with a participation

of 50 Students of Fisheries College & Research Institute, Tuticorin. The program consisted of Classroom Session to youth on Seafood Sector-Prospects & opportunities and Plant visit to demonstrate students on Fish processing, packing and export at M/S LIFFA seafood Exports, Tuticorin.

OTHER ACTIVITIES

- Attended the Stakeholder's meeting on Marine Capture Fisheries of Tuticorin District organized by CMFRI, Tuticorin on 13-06-2023 and delivered an invited awareness lecture to Fishermen, Trawl boat owners, Country craft fishermen, State fisheries officials, Sagar Mithras, Scientists and Academicians
- Attended the Regional Workshop on "Marine Fisheries Resources off SW coast of India" organized by Fishery Survey of India, Mumbai on 04-08-2023 at Thuthoor and participated in the group discussions along with Fishermen, Deep Sea boat owners, Country craft fishermen, State fisheries officials, Sagar Mithras, FSI Scientists and Academicians
- Took part in the TED Demonstration Trials at Mandapam conducted by MSSRF, Thangachimadam on 12-09-2023
- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Attended the Consultative Meeting for Kakinada Fisher Association/training modules with SCFPCL-FPO on 22.06.23
- Took part in the Swacchata Cleanup program organized by MPEDA SRD Tuticorin at Tharuvaikulam & Vellappatti on 18.10.23
- Attended the Training to Board of Directors of NABARD-NETFISH Promoted FPO-South Coast Fisher Producer Company Pvt Ltd on New Business Vistas in Seafood Export Tradeheld on 16.11.23 at Centre for Social Reconstruction (CSR), Nagercoil
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc. and did monitoring of the HDCs activities at various harbours
- Disseminated about 538 awareness messages through 9 Whatsapp groups formed at 9 harbours, reaching around 33605 fishery stakeholders



Training to Marine Observers



Participation in TED trial at Mandapam

4.7 KERALA SOUTH

Smt. Sangeetha N.R. State Coordinator, NETFISH has coordinated all the NETFISH activities in Southern coastal districts of Kerala, which totaled to 291 programs including 47 nos. of general fund

programs, 24 SC/ST programs, 4 external funded programs, 171 awareness classes by HDCs and 45 other activities (see Table). A total of 3105 fishery stakeholders were benefitted by these programs.

Table: Activities Conducted in Kerala South during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	34	528
	Pre-processing centre Program	6	180
	Stakeholder Meetings organized by SCOs	6	24
	Swacchata program	1	300
	Total General fund programs	47	1032
2	NETFISH SC FUND PROGRAMS		
	Harbour based Program for SC Fishers	16	480
3	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Harbour based Program for SC Fishers	8	240
	Total SC/ST programs	24	720
4	EXTERNAL FUNDED PROGRAMS		
	Joint programs with CIFNET	4	200
	Total (external funded programs)	4	200
5	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	171	1072
	Training/Evaluation of HDCs	6	-
	Participation of SCO in meetings/classes organized by others	19	-

Coordination of visit of officials from MPEDA & other Dept.	1	-
Ornamental fish Health Certification	18	-
MY BHARAT Programs	1	83
Total (other activities)	216	1153
GRAND TOTAL	291	3105

HARBOUR BASED PROGRAMS



Awareness for fishers at harbour

- Almost 78% of the activities ie. 229 programs conducted in Kerala South during 2023-24 were harbour based programs. Of these, 24 programs were conducted exclusively for the SC/ST category fishers and 34 programs were conducted utilizing the NETFISH general fund (see Table & Fig.). Rest of the programs (171 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table). Fishers, Boat owners, Skippers and Harbour workers were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources.

Aid materials such as Plastic jumbo crate boxes, T-shirt & Track suits, Aluminium vessels and Rain coats were given to the participants as an encouragement to adopt good practices.

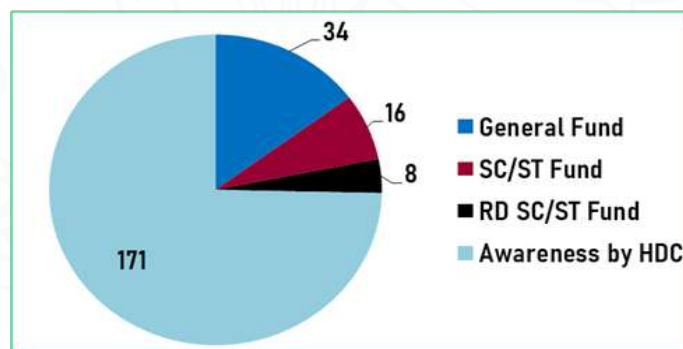


Fig. Category-wise Total number of programs conducted



Capacity building training for SC fishers



Table: Category-wise number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of beneficiaries
NETFISH General Fund Programs		
Thoppumpady	14	203
Thottappally	6	116
Azheekkal Kayamkulam	4	57
Sakthikulangara	7	133
Chellanam	3	19
Total	34	528
NETFISH SC Fund Programs		
Chemmanakary/ Udayanapuram	5	150
K.S Mangalam	1	30
Thuravoor	1	30
Chellanam	3	90
Thykkattussery	2	60
Chempu	2	60
Pallippuram	2	60
Total	16	480
RD SC Fund Programs		
Chellanam	4	120
Udayanapuram & KS Mangalam	4	120
Total	8	240

Awareness Programs / Meetings by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Thoppumpady	20	82	Harbour work-ers, fishers, boat crews, auctioneers etc.	Pre cooling, Hygienic fish & ice handling, Sustainable fishing, Marine mammals and sea turtle conservation, eradication of plastic pollution, Square mesh code end, Harbour hygiene, Boat hygiene, washing procedures etc.
Thottappally	21	155		
Kayamkulam	16	111		
Sakthikulangara	15	83		
Neendakara	32	275		
Port Kollam	13	70		
Muthalappozhi	26	132		
Adimalathura	28	164		
Total	171	1072		

- NETFISH facilitated the provision of net boxes to fishing vessels through the Harbour Engineering Department (HED). HED sanctioned ₹6,10,170 and distributed 2,000 net boxes to boat owners at Sakthikulangara Harbour on 1st August 2024, with each boat owner receiving four net boxes.



- NETFISH initiated efforts to secure CSR funding from Cochin Shipyard for the installation of a Water ATM at Sakthikulangara. As a result, a Water ATM with a capacity of 500 LPH was installed at the harbor, funded by a contribution of ₹ 7,95,100 from Cochin Shipyard.



- With the intervention of NETFISH, 18 trolleys were distributed by ICAR-CIFT at Neendakara Harbour, which has significantly reduced head loading and made handling easier.



Outcomes Achieved As A Result Of The Harbour Based Programs

- In the selected clusters, 12 boats each at Thoppumpady, Thottappally, and Azheekkal-Kayamkulam, along with 23 boats at Sakthikulangara, have successfully adopted the pre-cooling method.

THOPPUMPADY:

- Two-wheeler parking has been completely relocated to an external parking area.
- Skipjack tuna and cuttlefish are now auctioned by actual weight rather than through weight estimation.
- Skipjack tuna is kept in plastic boxes instead of on the floor for auctioning.
- Yellowfin tuna is wrapped in plastic coverings to maintain quality. After auctioning, the plastic covers are cleaned, dried, and sold. During this financial year, 10 tons of plastic were collected, of which nearly 5 tons were sold.
- The practice of auctioning shrimp, cuttlefish, squid, and fish by placing them on the floor has been entirely stopped.

THOTTAPPALLY:

- Plastic baskets are now used instead of bamboo baskets for handling the catch brought in by traditional boats.
- The auction hall is regularly cleaned before and after auctions using the motor and pump provided by NETFISH two years ago.
- Fish, cuttlefish, and squid are no longer dumped on the floor but are placed on plastic sheets.
- The practice of dumping shrimp on the floor is gradually being replaced with the use of plastic sheets.

AZHEEKKAL-KAYAMKULAM:

- The fish auction, previously conducted on the floor, is now done on plastic sheets.
- Plastic waste from the shops in the harbor is collected and periodically removed by *Harithakarmasena*.

SAKTHIKULANGARA:

- The net boxes supplied through HED are being used to keep fish for auction.
- A total of ₹51,960 was collected from the water kiosk between June 2023 and March 2024.
- Workers at Neendakara have started using trolleys distributed by CIFT, significantly reducing head-loading and easing the work.

UDAYANAPURAM & KS MANGALAM, CHELLANAM:

- Hygienic Aluminium vessels are now used for washing black clam meat instead of used paint buckets.

Impacts

- The fishing vessels doing pre-cooling of catch are getting high prices compared to the vessels following the normal method. They are getting around Rs. 500 more per basket in auction.
- One boat owner in Sakthikulangara stated that they got more than one lakh rupees by doing pre-cooling of 1000 kg cuttle fish



Weighing Tuna before auction

PRE-PROCESSING CENTRE PROGRAM



Training for Pre-processing workers

- 6 nos. of Pre-processing centre awareness programs were conducted benefitting 180 workers at various units in CPC Ambalappuzha. Aprons and Nighty were provided to the trainees to ensure hygiene at work.

Outcomes Achieved as a result of the PPC Programs

- Earlier the workers were using street cloths while at work. Due to NETFISH awareness creation, 60% of the workers now use uniforms and aprons thereby reducing the chances of contamination.

SWACCHATA PROGRAM

- A Swachhata Hi Seva cleanup event was arranged at Arthunkal beach in Alappuzha district on 01/10/2023 from 8.30am to 12 pm. MPEDA, NETFISH, Coast Guard, KUFOS, Arthunkal Police, Arthunkal Coastal Police, Social Media Group of Arthunkal named 'Our Arthunkal Whatsapp Group' and employees and retired government officials association' SECUAR and local people had participated in the event. The program was inaugurated by St. Andrews Basilica Rector Father Yesudas Kattunkathai. Dr. M. Karthikeyan Director MPEDA delivered the keynote speech. An awareness class was taken by Dr.Joice V. Thomas Chief Executive Officer MPEDA- NETFISH regarding the topic

Plastic pollution and its impacts on marine environment. P. Anil Kumar Joint Director MPEDA, Coast Guard Commandant Manoj Kumar Parki, KUFOS Assistant Professor Dr.V.P Limna, G.B.Mukesh Circle Inspector of Arthunkal Coastal Police station Police Station, Sri.Niju, Social Media koottayimma, Sri. Thankachan Social worker offered felicitations. Santhosh N.K State Coordinator NETFISH Kerala North welcomed the gathering and Sangeetha. N.R State Coordinator NETFISH Kerala South proposed vote of thanks. The program started with a rally by the students and officials holding up placards on dangers of dumping plastic waste in the sea and conservation of marine mammals. P G Madhu Circle Inspector of Arthunkal Police Station flag off the rally and delivered a message. After that a stretch of around 1 km of the beach area was cleaned by the participants by removing all the plastic and other solid wastes. A Swachhta Hi Seva Run and various cultural programs were also arranged as part of the event. Around 300 people participated in the program. The plastic collected were handed over to grama panchayath for shredding.



Swachhata Hi Seva at Arthunkal beach

JOINT PROGRAMS WITH CIFNET (USING CIFNET FUND)



Awareness program for fishers at Chellanam along with CIFNET

- NETFISH collaborated with CIFNET in conducting outreach programs for fishers under the PMMSY scheme. Four

awareness classes were conducted jointly as per the details given in the table below. Topics covered during the programs consisted of Basics of marine engine operations and maintenance, Electronic & communication equipments, Safety at sea and Hygienic handling and preservation of catch onboard fishing vessels.

Sl. No:	Date	Location	No: of Beneficiaries
1	8/01/2024	Ayiramthai, Alappuzha	58
2	8/01/2024	Chethi, Alappuzha	43
3	11/01/2024	Chellanam, Ernakulam	45
4	11/01/2024	Chellanam, Ernakulam	54

STAKEHOLDER'S MEETINGS

Date	Location	Purpose
17.05.23	NETFISH HO	Discussion with the representatives of Deep sea fishing vessel operators and auctioneers for enhancing Tuna fishing industry at Cochin Fisheries harbour Thoppumpady
04.07.23	NETFISH HO	Meeting with merchant exporters and tuna long line boat owners representatives for analysing the feasibility of marketing and quality improvement of Tuna to Sashmi grade at Cochin Fisheries Harbour Thoppumpady
05.07.23	Sakthikulangara	Discussion with AEE & Stake holders regarding Harbour up gradation & Net box distribution at Sakthikulangara harbour
12.07.23	Sakthikulangara	Discussion with AEE, AE, Automation engineering company and boat owner's representatives regarding Harbour up gradation by setting up of automation
12.07.23	Sakthikulangara	Discussion with AEE, AE & Stake holders regarding Net box distribution at Sakthikulangara harbour
20.10.23	Bell Seafoods, Thoppumpady	Meeting with boat owner and exporter regarding procuring Tuna from Lakshadweep

MY BHARAT PROGRAMS

- On 4th February 2024, a MY Bharat event titled "Exploring Black Clam Resources for Promoting Exports" was held with the enthusiastic participation of 83 students from Govt. VHSE Vaikom and Perumbalam. The event was designed to introduce students to the potential of the fisheries sector, with a particular focus on black clam resources. During

the event, NETFISH State Coordinator, Ms. Sangeetha N. R., engaged with the students, addressing their queries and providing valuable insights into career opportunities within the fisheries industry. She also explained the basic concepts of black clam processing, offering a foundational understanding for those interested in this field. A technical session on "Post-Harvest Processing of Black Clams" was conducted by Shri. Sharvin Shaji, Proprietor of Spice Bay Trade

& Exim. His session covered key topics such as depuration, the importance of hygienic processing, and the export opportunities within the bivalve sector. This session provided the students with a comprehensive understanding of the processes involved in preparing black clams for the market. Following the classroom sessions, the students visited the ICAR-CIFT Black Clam Depuration Plant in Perumbalam, where they observed first-hand pre-processing and processing stages of black clams. Additionally, the students had the opportunity to interact with local clam harvesters, gaining practical knowledge about the clam harvesting process and the equipment used in the industry.

OTHER ACTIVITIES

- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc. and did monitoring of the HDCs activities at various harbours
- Coordinated the visit of Dr. Paul Pandian, Dept. of fisheries to Thoppumpady FH on 12.05.23
- Attended Foundation stone laying ceremony for Modernization of Cochin Fisheries Harbour by Union Minister for fisheries on 11th June 2023
- Attended the Sagar Parikram Program of Department of fisheries, Gol at Thottappally on 11th June 2023 and at Vixzhinjam on 12th June 2023
- Delivered an awareness class to the Fisheries Extension officers of State Fisheries Dept. in a program organized by SAMETI on 30.06.23 at Trivandrum
- Attended the Stake holders meeting on Stock assessment Organized by CMFRI on 14th June 2023
- Attended the Pollution response workshop organized by Coast Guard District HQ, Kochi on 09.08.23 & 10.08.23
- Attended the meeting called by District collector Kollam regarding various issues for the up gradation and hygienic handling in Sakthikulangara and Neendakara FHs on 05.09.23 at Kollam
- Attended the Peeling shed owners meeting regarding the peeling shed issues and pollution certificate and registration organized by Department of fisheries on 14th September 2023 at Pattanakad
- On 19th September 2023, the SCO attended the Advisory committee meeting of Cochin Port Trust regarding harbour renovation
- Delivered awareness class for the fishers in a program organized by Kerala Fisheries Welfare Fund Board on 14.12.23 at Kollam

- Attended the meeting regarding the vessel monitoring and the boat crew and coastal security organized by Coast AIG on 23rd January 2024 at Thoppumpady and discussed with the boat workers, stakeholders regarding the present status of the vessel monitoring and coastal security
- Attended a meeting on 25th January 2024 at Coastal Headquarters Ernakulam regarding vessel monitoring, boat crew and coastal security
- Arranged a community Interaction program jointly with Indian Coast Guard, & Department of Fisheries Kerala on 30th January 2024 at Chellanam
- Delivered awareness classes on Hygienic handling, sustainable fishing and conservation in the programs organized by Department of fisheries Kerala on 29th Feb. 2024 & 1st March 2024 at Thoppumpady
- Disseminated about 296 awareness messages through 8 Whatsapp groups formed at 8 harbours, each message reaching around 500 fishery stakeholders
- Inspection of Ornamental fish for export were done & issued 18 nos. of Health Certificate to various ornamental fish export units.

Sea urchin spine analysis : In response to the concerns raised by seafood merchants regarding the presence of sea urchin spines in Poovalan shrimp (*Metapenaeus dobsoni*), which has significantly impacted the market by lowering prices, inspections were conducted by NETFISH State Coordinator Smt. Sangeetha N.R. with the support of HDCs at various harbors, including Thoppumpady, Thottappally, Azheekal-Kayamkulam, and Sakthikulangara. However, no sea urchin spines were found in any of the shrimp samples examined. Despite the lack of evidence, these unfounded allegations have caused confusion among fishers and merchants, necessitating urgent intervention from authorities to resolve the issue and restore market stability.





Analyzing shrimp samples for presence of seaurchin spines

- **Aluminium vessels impact assessment:** Assessment was done by the SCO on the effectiveness of CIFT sponsored awareness trainings on hygienic handling for black clam fishers in Chempu Grama Panchayath, Kerala and the provision of aluminum boiling vessels to 35 SC fishers. The programs has led to significant

improvements in hygiene practices, increased productivity, and reduced energy consumption. The fishers now use cleaner methods for processing black clams, resulting in better product quality and economic benefits, while the new aluminum vessels have doubled their processing capacity and efficiency.



Black clam processing

4.8

KERALA NORTH

Sri. Santhosh N.K. State Coordinator, NETFISH has coordinated all the NETFISH activities in Northern coastal districts of Kerala, which totaled to 258 programs including 47 nos. of general fund

programs, 28 SC/ST programs, 7 external funded programs, 146 awareness classes by HDCs and 30 other activities (see Table). A total of 2996 fishery stakeholders were benefitted by these programs.

Table: Activities Conducted in Kerala North during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	25	575
	Pre-processing centre Program	10	239
	Stakeholder Meetings organized by SCOs	8	60
	Swacchata program	1	120
	Exposure Visit of Fishers from Maharashtra & Gujarat to Munambam Harbour	2	48
	TED Workshop	1	70
	Total General fund programs	47	1112
2	NETFISH SC FUND PROGRAMS		
	Harbour based Program for SC Fishers	5	150
3	NETFISH ST FUND PROGRAMS		
	Lakshadweep fishers training	14	473
	Exposure Visit of Lakshadweep fishers to Munambam	2	40
3	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Harbour based Program for SC Fishers	7	203
	Total SC/ST programs	28	866
4	EXTERNAL FUNDED PROGRAMS		
	Seafood Unit Training Program	1	53
	Joint programs with CIFNET	1	50
	Munambam Harbour Management Society funded programs	5	98
	Total (external funded programs)	7	201
5	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	146	817
	Training/Evaluation of HDCs	6	-
	Participation of SCO in meetings/classes organized by others	22	-
	Coordination of visit of officials from MPEDA & other Dept.	2	-
	Total (other activities)	176	817
	GRAND TOTAL	258	2996

HARBOUR BASED PROGRAMS

- Almost 71% of the activities ie. 183 programs conducted in Kerala North during 2023-24 were harbour based programs. Of these, 12 programs were conducted exclusively for the SC/ST category fishers and 25 programs were conducted utilizing the NETFISH general fund (see Table & Fig.). Rest of the programs (146 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table).

Fishers, Boat owners, Skippers and Harbour workers were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as Track pants, T-shirts, Gloves, Caps, Plastic scoopers, Fish boxes & Round baskets were given to the participants as an encouragement to adopt good practices.



Awareness class for fishers at Beypore harbour

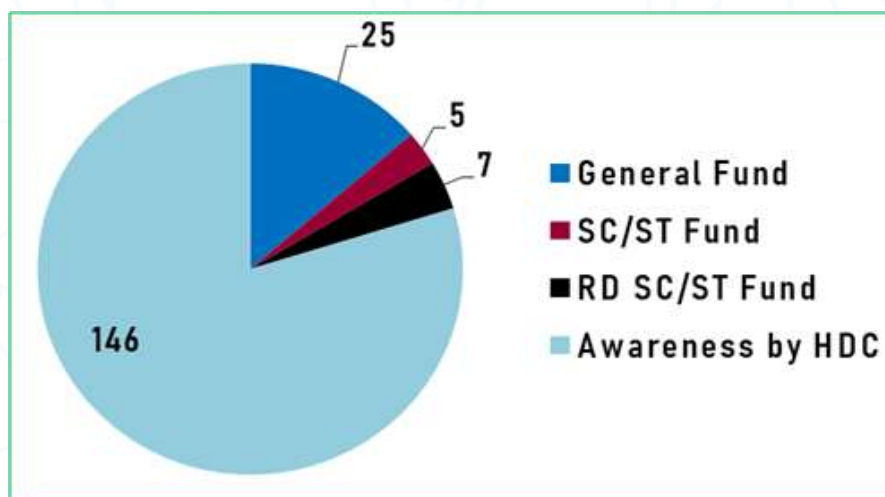


Fig. Category-wise total number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of beneficiaries
NETFISH General Fund Programs		
Beypore	11	241
Chettuva	7	194
Munakkakadavu	3	59

Ponnani	2	42
Puthiyappa	1	19
Vypin	1	20
Total	25	575
NETFISH SC Fund Programs		
Elamkunnappuzha, Ernakulam	1	30
Ayyambilly, Ernakulam	3	90
Kuzhuppilly, Ernakulam	1	30
Total	5	150
RD SC Fund Programs		
Chettuva	3	83
Nayarambaam, Ernakulam	2	60
Ayyambilly, Ernakulam	1	30
Nedungad, Ernakulam	1	30
Total	7	203
Grand Total	37	928

Awareness Programs/Meetings by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Munambam	19	180	Harbour workers, fishers	Pre cooling of catch in boats Marine mammals & Sea turtles Fish quality management Sustainable fishing
Chettuva	16	154		
Munakkakadavu	5	23		
Ponnani	17	92		
Bey pore	11	38		
Puthiyappa	29	70		
Koyilandy	10	51		
Azhikkal	9	35		
Moplabay	8	43		
Cheruvathur	22	131		
Total	146	817		

Table: Harbour-wise number of programs conducted by HDCs



Outcomes Achieved as a result of the Harbour Based Programs

- In Beypore harbour, 33 out of 100 fish handling workers in the export section has adopted dress code
- In Chettuva harbour, 140 out of 200 fish handling workers and in Munakkakadavu harbour, 30 out of 40 workers have adopted using hand gloves during work
- Dress code was implemented by almost all SC workers (83 nos.) of the Chettuva fishing harbor
- SC fisher beneficiaries attended the programs at Nayarambalam, Ayyambilly, Kuzhuppilly, Elamkunnappuzha, Nedungad adopted the usage of clean fish box and round baskets for handling the catch



Fish kept for auction in box at Munambam



Well handled and iced fish at Munambam



Workers in Beypore & Chettuva harbours, in their newly adopted dress code



Workers use hand gloves for maintaining hygiene

Impacts

- Adoption of dress code have enhanced personal hygiene, speed at work and unity
- Adoption of usage of hand gloves have improved the hygienic handling

MUNAMBAM FISHING HARBOUR MANAGEMENT SOCIETY FUNDED PROGRAMS

- Munambam Fishing Harbour Management society has sanctioned Rs. 2 lakh to NETFISH for conducting training programs to workers and to promote the dress code among workers in the harbour. The training program was commenced on 27th July 2023. A total of five training programs were conducted with the participation of 98 fish

handling workers in the harbour. The topics of trainings were hygienic fish handling practices, personal hygiene and fish quality management. Leaders of the worker's unions have also attended the programs.

Summary of Training programs conducted

No	Date	No of Trainees	Topic
1	27.07.23	18	Hygienic fish handling practices
2	2.08.23	28	Personal hygiene and Fish quality management
3	2.08.23	20	Personal hygiene and Fish quality management
4	9.08.23	9	Personal hygiene and dress code
5	9.11.23	23	Importance and use of uniform

The following aid materials were also provided to the workers to enhance the fish handling practices in the harbour. A total of 205 pairs of rubber gloves and 292 uniforms consisted of track pants and T-shirts were distributed as part of the program. Total 146 workers including Fish handling workers under two labour unions and workers belonging to different export and local market companies were given two pairs of track pants and two pairs of T shirts.



Worker's Uniform and use of gloves

Impacts

- Ease of doing work as the dress code is comfortable and care free
- Increased the speed of work
- Better personnel hygiene and social acceptance



Workers in dress code at Munambam

- Sense of being recognized and self-esteem improved among workers
- Enhanced unity among workers
- Use of hand gloves has strengthened the good fish handling practice
- Now use of hand gloves is very common among the fish handlers in the harbour
- Increased reputation of MFHMS among workers as the society had funded for the betterment of their working environment

DRIVE TO RECOVER OCEAN PLASTIC (DROP) PROJECT



Shri. Santhosh N.K., SCo NETFISH unveils the DROP project flag

DROP (Drive to Recover Ocean Plastic) project which was being operated at Munambam fishing harbour by the NGO Plan@Earth in association with Munambam Fishing Harbour Management Society (MFHMS), MPEDA-NETFISH, Munambam Fishing Boat Owners and Operators Coordination Committee and Tharakans Associations Munambam, has won CSR funding by HCL foundation for 3 years. The project inauguration was done on 27th May 2023 at Munambam fishing harbour by Shri. Saji Cherian, Kerala State Fisheries minister in a function presided over by Smt. Thulasi Soman, Block Panchayat President. The minister also inaugurated the mobile app of the project. Shri Saju M.S., JD Fisheries handed over LED display board and T-shirt of the project to fishermen. Shri. Santhosh N.K.

SCo NETFISH unveiled and handed over the DROP project flag to a fisherman. Shri. Liyaz Kareem CEO Plan@Earth handed over the plastic collection bag to a fisherman. Sri. Sooraj Abraham presented the project details. Shri. K. K. Pushkaran Chairman Boat Owners Coordination, Shri. Mohanlal K. K. & Shri.C. S. Soolapani from Tharakan Association, Shri.A. K. Gireesh CITU and Shri. M.J. Tomy INTUC felicitated on the occasion. About 150 numbers of stake holders and harbour workers participated in the program.

As part of this plastic waste recovery from sea project, 10 numbers of fishing vessels and the fishers who have brought maximum quantities of plastic wastes from

sea were given awards including mementos, gifts and T shirts. Mementos were also given to the representatives of various boat owner's associations and fish auctioneer's associations which are strongly supporting the DROP project. The awards and gifts were distributed in a function conducted at Munambam fishing harbour on 31.1.24. Students from Cochin College conducted an Awareness Skit in the award function. Awareness wall paintings about

plastic wastes and its ill effects drawn on the compound wall of the harbour were unveiled by JD Fisheries.

Under DROP project, 8602 kgs of plastic wastes were recovered from the sea with the active participation of 231 fishing vessels since the inauguration of the project. The award for the best performing boat was won by the fishing boat New Sea Lord.



Plastic waste collection system at Munambam under DROP project



Presenting Award to the boat which brought highest quantity of plastic from sea

PRE-PROCESSING CENTRE PROGRAM



Training for pre-processing workers

- 10 nos. of Pre-processing centre awareness programs were conducted benefitting 239 workers at 3 PPCs.
- Uniforms & Aprons were provided to the trainees to ensure hygiene at work.

Outcomes Achieved as a result of the PPC Programs

- All the workers at 2 PPCs & 80% workers in one PPC continued to maintain dress code.



Pre-processing workers in neat and clean uniform

SEAFOOD UNIT TRAINING PROGRAM



- MPEDA-NETFISH in association with MPEDA RD Kochi conducted One day training program on "Basic GMP, SSOP, Personal Hygiene & Sanitation Practices and Swachhta Campaign" at M/s. Uniroyal Marine Exports Ltd. Kozhikode on 02.11.2023. Shri. Bijimon Peter JTO explained the need of training of staff in sea food processing units. SCO NETFISH

handled the training sessions. The 53 trainees consisted of Processing hall workers, QC technicians and Purchase manager were made aware of the Swachhta Campaign and its relevance and importance in the production of safe and quality seafood in the country to augment the export.

EXPOSURE VISIT

- A Visit to the Munambam Fishing harbour to understand harbour activities, harbour management and interaction with harbour management society officials were arranged for the fishers from Gujarat & Maharashtra. A total of 48 fishers in 2 batches had visited the harbor on 21st June & 12th July 2024. The fishers well appreciated

MPEDA-NETFISH for arranging the exposure visit. They have understood the importance of the management society in the effective management of the harbour. They were of the opinion that such societies are needed in their states as well. They informed that they will demand to the fisheries department for the formation of similar harbour management societies in their state.



Fishers from Gujarat & Maharashtra visiting Munambam harbour

SWACCHATA PROGRAM

- A clean-up drive was conducted on 17.10.23 at Ponnani Fishing harbor by MPEDA-NETFISH in association with Ponnani Municipality, Ponnani Fishing harbour Management Society, Dept. of Fisheries, HED, NSS unit no 67& 28 of MES College Ponnani, Indian Coast Guard, Coastal Police, Fire & Rescue Services, Fishermen and Boat owner's association. Nearly 120 people participated in the program, aimed to sensitize fishers, harbour workers and the general public on the importance of harbour cleanliness and behavioural discipline required in the use and disposal of plastic items.

Awareness rally to the fishing harbour, Harbour clean up, Awareness meeting, Awareness flash mob by college students and art performances etc. were conducted as part of the event. The program was inaugurated by Smt. Renjini P.

K., Deputy Director Fisheries dept. in a function presided over by Dr. Joice V Thomas CE, NETFISH. Dr. C.P. Rajool Shanis Vice principal, MES College Ponnani & NSS program Coordinator, Sri. Anikumar Coastal Police, Sri. Joseph Asst. Engineer HED, Sri. K.A. Abdu Rahim Harbour Management Society and Sri. Sajad A.K. Boat owners association President felicitated on the occasion. Sri. Santhosh N. K. SCo did the welcome speech. The HDCs of NETFISH had actively coordinated for the successful conduct of the clean-up drive. Sixty bags of plastic wastes collected from the harbour premises were handed over to the municipality segregation and disposal team. The fishers and all other participants welcomed and congratulated MPEDA-NETFISH for selecting Ponnani harbour for the clean-up program. The fishers urged for a permanent plastic waste removal system from the harbour in association with the Municipality.





Clean-up drive at Ponnani harbour

TRAINING AT CIFNET KOCHI FOR LAKSHADWEEP FISHERS

➤ MPEDA-NETFISH with the support of CIFNET, Kochi and by utilizing the MPEDA ST fund had arranged trainer's trainings to develop trained trainers among Lakshadweep fishers in Tuna long line fishing. The fishers trained by NETFISH were selected and provided 11 days training in CIFNET Kochi which included two courses- 6 days training on "Monofilament Long line and Tuna handling on-board" and 5 days training on "Safety seamanship & Navigation, Marine electronic equipment and Marine engine on-board

fishing vessel". A total of 41 fishers from Lakshadweep were trained in 2 batches under this program. The 1st batch training from 27th Nov. to 8th Dec. 2023 was attended by 21 fishers and the 2nd batch training from 15th to 26th Jan. 2024 was attended by 20 fishers. The training has equipped the fishers in using modern tuna long liner, handling & preservation of tuna on-board, Navigation using modern electronic equipment seen in deep sea fishing vessels and engine repair.





➤ **Exposure visit to Munambam for Lakshadweep fishers:** Apart from the 11 days training, the fishers were taken by MPEDA-NETFISH to visit Munambam fishing harbour in Ernakulam district. Munambam managed by Munambam Fishing Harbour Management Society is a model fishing harbour in the country where the operation, hygiene,

management etc. are model to other harbours. The fishers were given opportunity to understand the harbour activities, its infrastructure and management and to interact with harbour management society officials. The first batch visited the harbour on 29th Nov. 2023 and the second batch on 17th Jan. 2024.



Lakshadweep fishers visiting Munambam harbour

JOINT PROGRAMS WITH CIFNET (USING CIFNET FUND)



CIFNET training for fishers at Chettuva

- NETFISH collaborated with CIFNET in conducting outreach programs for fishers under the PMMSY scheme. One awareness class was conducted jointly on 16th Jan. 2024 at Chettuva benefitting 50 fishers. Topics covered during

the programs consisted of Basics of marine engine operations and maintenance, Electronic & communication equipments, Safety at sea and Hygienic handling and preservation of catch onboard fishing vessels.

STAKEHOLDER'S MEETINGS

Date	Location	Purpose
10.04.23	Office of JD (F), Ernakulam	Discussion with Fisheries Joint Director, stakeholders & NGO regarding DROP project
26.04.23	Munambam	Discussion with JD(F), Plan@Earth officials, representatives of Boat owners and Tharakans regarding DROP project
26.04.23	Munambam	Discussion with Hygiene Inspector and Merchant leaders regarding dress code implementation to the company workers in the harbour with the fund by MFHMS
25.05.23	Munambam	Meeting with JD(F), Officers of Plan@Earth and stakeholders regarding plastic project inauguration
19.09.23	Munambam	Discussion with export section workers regarding dress code implementation
05.10.23	Ponnani	Discussion with Boat owner's association and harbour workers regarding Swachhta Program
08.02.24	Munambam	Meeting with net menders
27.03.24	Office of JD(F), Ernakulam	Meeting regarding TED implementation

OTHER ACTIVITIES

- Coordinated & attended the Swacchata program held on 13th Oct. 2023 at Fort Kochi beach with the participation of Fort Kochi division Municipality, Coastal Police Fort Kochi and NSS unit of Cochin College.
- Coordinated & attended the Swacchata program held on 15th Nov. 2023 at Puthuvypu beach with the participation of officials from MPEDA HO, NETFISH HO and MAC Vallarpadam
- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc.
- Attended the Sagar Parikram Program of Department of fisheries, Gol at Bepore on 9th June 2023
- Attended the meetings of Munambam Fishing Harbour Management Society
- Attended Matsya Sampda Jakrutha Abhiyan at CIFNET, Kochi on 23.01.24
- Attended National workshop on Micro plastics in seafood value chain at CIFT, Kochi on 19.12.23
- Attended online Roundtable Conference on 'Training and Capacity Need Assessment for Decentralized Renewable Energy application in Fishery value chain by PwC and GIZ on 26.05.23
- Attended the Stake holders meeting on Stock assessment Organized by CMFRI on 14th June 2023
- Participated in the 3 days Hands on training on Sea food value addition organized by MPEDA at Chennai, Kochi & Vizag
- Disseminated about 367 awareness messages through 10 Whatsapp groups formed at 10 harbours, each message reaching around 1000 fishery stakeholders.



Participation in Stakeholder's meeting at CMFRI

4.9 KARNATAKA

Sri. Narayana K. A., State Coordinator, NETFISH has coordinated all the NETFISH activities in Karnataka, which totaled to 192 programs including 48 nos. of general fund programs, 20 SC/ST

programs, 5 external funded programs, 82 awareness classes by HDCs and 37 other activities (see Table). A total of 2650 fishery stakeholders were benefitted by these programs.

Table: Activities Conducted in Karnataka during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	46	959
	Stakeholder Meetings organized by SCOs	1	10
	Swacchata program	1	85
	Total General fund programs	48	1054
2	NETFISH SC FUND PROGRAMS		
	Harbour based Program for SC Fishers	8	237
3	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Harbour based Program for SC Fishers	8	232
	Harbour based Program for ST Fishers	4	120
	Total SC/ST programs	20	589
4	EXTERNAL FUNDED PROGRAMS		
	Seafood Unit Training Program	3	105
	Value addition training sponsored by DRP, PMFME, IDC, Mangalore	1	28
	Training for Marine Observers	1	13
	Total (external funded programs)	5	146

5	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	82	741
	Training/Evaluation of HDCs	15	-
	Participation of SCO in meetings/classes organized by others	7	-
	Ornamental fish Health Certification	13	-
	MY Bharat Programs	2	120
	Total (other activities)	119	861
	GRAND TOTAL	192	2650

HARBOUR BASED PROGRAMS

- Almost 77% of the activities ie. 148 programs conducted in Karnataka during 2023-24 were harbour based programs. Of these, 20 programs were conducted exclusively for the SC/ST category fishers and 46 programs were conducted utilizing the NETFISH general fund (see Table & Fig.). Rest of the programs (82 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table). Fishers, Boat

owners, Skippers and Harbour workers were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as rain coats, Uniform, shoes, hygiene kits and hand gloves were given to the participants as an encouragement to adopt good practices.



General Harbour based program

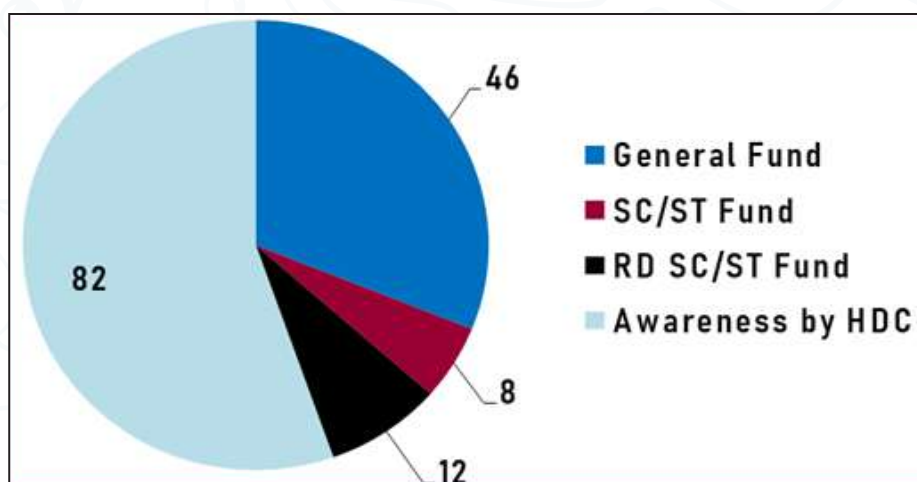


Fig. Category-wise total number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of beneficiaries
NETFISH General Fund Programs		
Mangalore	9	188
Malpe	19	391
Bhatkal	15	318
Amdalli	2	40
Tadri	1	22
Total	46	959
NETFISH SC Fund Programs		
Ankola	3	87
Kumta, Uttara Kannada	3	90

Kundapur, Udupi	1	30
Mangalore	1	30
Total	8	237
RD SC/ST Fund Programs		
Ankola, Uttara Kannada	6	180
Gangolli	1	30
Tadri	1	29
Tannerbavi	1	25
Udupi	3	88
Total	12	352
Grand Total	66	1548



Training for SC fishers

Awareness Programs/Meetings by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Mangalore	8	85	Harbour workers, fishers	Pre cooling of catch in boats Marine mammals & Sea turtles Fish quality management Sustainable fishing
Malpe	12	132		
Gangolli	10	76		
Bhatkal	8	61		
Honnavar	8	56		
Tadri	8	77		
Belikeri	6	46		
Amdalli	10	93		
Karwar	12	115		
Total	82	741		

Table: Harbour-wise number of programs conducted by HDCs



Awareness by HDCs

OUTCOMES ACHIEVED AS A RESULT OF THE HARBOUR BASED PROGRAMS

MANGALORE HARBOUR

- The practice of fish cutting inside the auction hall has stopped completely
- Usage of square mesh cod ends has adopted in 35 nos. of multi day trawl boats
- Practice of dumping of ice on the floor has reduced by 90%

MALPE HARBOUR

- The practice of on-board chilling of freshly caught shrimp and high value fish has adopted in 30 vessels
- An area was designated for vehicle parking
- Usage of square mesh cod ends has adopted in 140 nos. of multi day trawl boats
- Practice of dumping of fish and ice on the floor reduced by 70%

BHATKAL

- The practice of on-board chilling of freshly caught shrimp and high value fish has adopted in 10 boats
- Practice of fish cutting inside the auction hall reduced by 70%
- An area was designated for vehicle parking
- Practice of dumping of fish and ice on the floor reduced by 90%

AMDALLI

- Practice of fish cutting inside the auction hall reduced by 90%
- An area was designated for vehicle parking
- Usage of square mesh cod ends has adopted in 7 nos. of multi day trawl boats
- Practice of dumping of fish and ice on the floor reduced by 70%

SEAFOOD UNIT TRAINING PROGRAM



Training in Sea Food Processing Unit

- Conducted 3 nos. of awareness training programs benefitting 105 processing workers, supervisors and purchase personnel at 3 Seafood Processing units in Karnataka (see Table). The Awareness classes covered aspects such as hygiene & sanitation standards & measures to be followed in seafood processing units, basic HACCP system, GMP & SSOPs, Personal hygiene, Microbiology, traceability system, Documentation etc.

Videos and documentaries related to personal hygiene and hygienic fish handling were shown during the training. Hands on training on hand washing procedure were also done. All the programs were conducted by collecting a training fee of Rs. 10000/- per program and thus a total of Rs.30000/- was generated as external income to NETFISH. The trainees were given certificates after each program.

Sl.No:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	Goan Fresh Marine Exports Pvt Ltd	Brahmavar, Udupi district	1.08.23	35
2	Goan Fresh Marine Exports Pvt Ltd	Brahmavar, Udupi district	31.08.23	35
3	Malpe Fresh marine pvt Ltd	Kundapur, Udupi district	30.09.23	35

Impacts

- As per the post assessment, improvement was observed in skill and knowledge among the participants.
- Improvement observed in hand washing procedure.

SWACCHATA PROGRAM

- A harbor cleanup drive was arranged at Honnavar Fishing Harbour in Karnataka on 6th October 2023 from 8.30 am to 3 pm. Shri Rajakumar S Naik, DD MPEDA, Mangalore, Dr. Prakash Mehtha, Environmentalist, Shri Chetankumar P, DD Fisheries, Honnavar, Dr. Mahesh Pandith, Snehakunja Trust, Shri Rajesh Tandel, President, Workers Union, Shri Veevan Fernandes- Secretary purseine boat owners association, Shri BD Fernandes, Marthoma Central School, Shri Manoj, PSI, Coastal Security Police, Shri Abbas Sab, Union leader, Shri Ganapati Tandel, Union leader, Shri Arun Naik, Coordinator, Snehakunja Trust, and Shri. Narayana K A, SCO, MPEDA-NETFISH were the dignitaries present for the event. About 85 participants including Students of Marthoma Central School and Fishers of Honnavar FH had attended the program. Shri. Rajakumar S Naik, inaugurated the program. He urged the fisher to cooperate with the department in cleaning the premises. He also

urged state fisheries department that efforts shall be made to improve the infrastructure facilities in harbour. Dr. Prakash Mehtha, gave speech on the disadvantages of single use plastics and ill effects of micro plastics in fisheries. Dr. Mahesh Pandith, advised the fish workers to maintain personal hygiene and to quit habits like smoking, usage of gutka, pan, etc.

Shri. Narayana K. A. demonstrated how to clean the fishing vessel and harbour and auction hall. All the dignitaries, students from scouts & guides, volunteers from different SHGs, Coastal security police staffs, cleaned the fishing vessel, harbour and auction hall with the help of fishers. One auction hall, wharf, parking area, harbour premises were cleaned. A total of 23 bags full of plastic and other wastes (615kg) were collected and handed over to local panchayath personnel, which were then finally handed over to nearest SLRM unit in Honnavar. All the HDCs, assisted during the swachatha programme. Caps and refreshments were distributed to students, fish workers and fishers who voluntarily participated in the clean-up program. A Free Medical Check-up Camp was also organized as part of the event, by Snehakunja Trust and free medicines were given.



Clean-up program and Medical camp at Honnavar

VALUE ADDITION TRAINING

- Getting known about the various value addition trainings organized by MPEDA-NETFISH in the state, the District Resource Person, PMFME SCHEME, DIC, Yeyyadi, Mangalore requested NETFISH to conduct a one day training to food entrepreneurs in Mangalore on value added fish food products. Thus a Hands on training on preparation of Value added fishery products was conducted for 28 new food entrepreneurs in Mangalore at Bharathi training

Centre, Kottara on 30.05.23. The aim of the training was to encourage the new food entrepreneurs to take up value addition of fish products as one of the means of their source of income. All the arrangements were made by DRP, PMFME, Mangalore and they had paid Rs. 5000/- to NETFISH as institutional charge for conducting the training. All the participants were given participation certificate and mask, hand gloves and head caps.



Value addition training

MY BHARAT PROGRAMS

- Two MY Bharat events were organized in Karnataka during the year. The first one entitled 'Seafood sector- Prospects and opportunities' was held on 13th March 2024 with the participation of 48 students of College of Fisheries, Mangalore. The next event was on 15th March 2024 on the topic "Advances in Aquaculture and species diversification", in which 72 students of Govinda Das College, Suratkal had attended.



My Bharat events

OTHER ACTIVITIES

- A discussion with the Secretary/Director of fisheries regarding the TED implementation was done at the Directorate of fisheries, Bangalore on 28.03.24
- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Attended the TED workshop held at Mumbai on 23rd January 2024 and coordinated for the participation of boat owners and nodal officer from Karnataka in the workshop.
- Attended a workshop at Honnavar on small scale fisheries organized by Snehakunja Trust on 25.04.23
- Attended Fish farmers day at Kundapur organized by department of fisheries on 10.07.23
- Attended a webinar on "Impact of climate change on Marine fisheries" organized by NITTE university on 19.12.23
- Assisted and Participated in the consultative workshop with State Governments for "Enhancing Seafood Exports" organized by Department of Commerce, Govt. of India & MPEDA at South Goa from 13.06.23 to 18.06.23
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues,

- Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc. and monitoring of activities of the HDCs were done.
- Arranged training for the Marine Observers on Identification of Marine mammals and turtles and their sighting and fishery interaction data collection.
- Disseminated about 337 awareness messages through 18 Whatsapp groups formed at 9 harbours, each message reaching around 625 fishery stakeholders
- Inspection of Ornamental fish for export were done & issued 13 nos. of Health Certificate to various ornamental fish export units.



4.10

MAHARASHTRA SOUTH & GOA

Sri. Santosh Kadam, State Coordinator MPEDA-NETFISH, has conducted all NETFISH activities in the southern coastal districts of Maharashtra and Goa. These efforts encompassed a total of 94 programs, including 40 general fund programs, 1 SC/ST program, 2 externally funded programs, 34 awareness classes conducted by HDCs, and 17 other activities (refer to

the Table). These initiatives collectively benefited 1,086 fishery stakeholders.

Of the 94 programs, 7 harbor-based and 1 stakeholder meeting were held at Vasco Harbor, Goa. The remaining programs were conducted in the southern regions of Maharashtra.

Table: Activities Conducted in Maharashtra South & Goa during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	37	779
	Stakeholder Meetings organized by SCOs	2	21
	Swacchata program	1	65
	Total General fund programs	40	844
2	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Harbour based Program for ST Fishers	1	30
	Total SC/ST programs	1	30
3	EXTERNAL FUNDED PROGRAMS		
	Seafood Unit Training Program	1	29
	Training for Marine Observers	1	9

	Total (external funded programs)	2	38
4	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	34	174
	Training/Evaluation of HDCs	3	-
	Participation of SCO in meetings/classes organized by others	14	-
	Total (other activities)	51	174
	GRAND TOTAL	94	1086

HARBOUR BASED PROGRAMS

- Almost 77% of the activities ie. 72 programs conducted in Maharashtra South & Goa during 2023-24 were harbour based programs. Of these, 37 programs were conducted utilizing the NETFISH general fund and 1 program was exclusively for the ST category fishers (see Table & Fig.). Rest of the programs (34 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table). Fishers, Boat owners, crew members and Harbour workers were the

targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as Plastic baskets, Rubber hand gloves, Brushes, Waste-bins/Dust-bins, Liquid Handwash Dispensers, Hand wash Sachets, Round Caps, Tub were given to the participants as an encouragement to adopt good practices.



Fishing harbour programs at Harne & Vasco

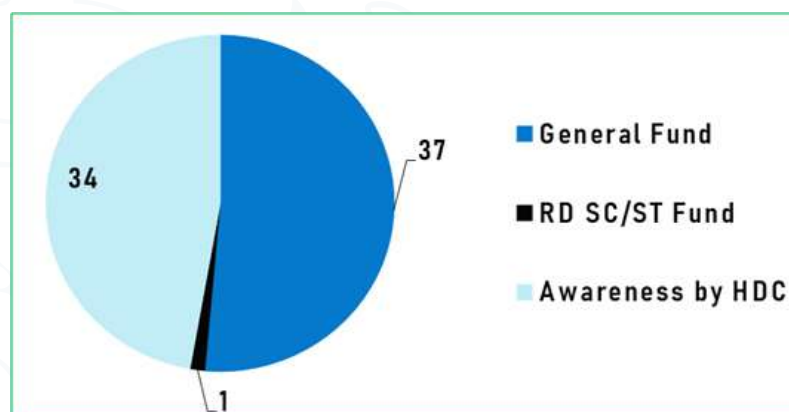


Fig. Category-wise total number of programs conducted in Harbours/LCs

Table: Category-wise number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of Beneficiaries
NETFISH General Fund Programs		
Mirkarwada	11	254
Harnai	08	160
Devgad	10	197
Vasco	08	168
Total	37	779
RD SC/ST Fund Programs		
Devgad	1	30
Total	1	30
Grand Total	38	809



Capacity building programs for SC fishers

Awareness Programs/Meetings by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Harnai	05	25	Crew members, fishers	Personal hygiene & Good fish handling practices Onboard, Hygienic handling of fishes at harbor, Juvenile fishing and importance of square mesh cod end, Sustainable fishing
Dabhol	05	25		
Mirkarwada	04	22		
Sakharinate	03	15		
Devgad	03	15		
Malvan	02	09		
Chapora	00	00		
Malim	07	38		
Vasco	03	15		
Cutbona	02	10		
Total	34	174		

Table: Harbour-wise number of programs conducted by HDCs

Outcomes Achieved as a result of the Harbour Based Programs

MIRKARWADA

- Use of rubber hand gloves during onboard handling of fish is observed in 60 fishing vessels
- Use of brushes for crates & deck cleaning is observed in 60 fishing vessels
- Use of Liquid hand wash and regular filling of soap dispensers is done in 30 fishing vessels
- Regular cleaning at the harbour once in a week was initiated from 09/12/2023 and still continued



Usage of gloves



Usages of brushes & liquid hand wash onboard

HARNAI

- About 70% of trawlers ie. 280 nos. use 40 mm Square mesh cod ends
- Fish is being kept in plastic boxes for auction, thereby avoiding contact with ground/sand/beach
- 50 fishing vessels regularly collect plastic wastes from sea during their fishing trips
- About 10 fishers are involved in conservation of lobsters by releasing live juvenile/ live berried female Lobsters back to sea



Using square mesh cod end



Plastic waste collection onboard



Auction in plastic boxes at Harnai

DEVGAD

- In 30 vessels, rubber hand gloves are used during onboard handling of fish
- Use of brushes for crates & deck cleaning is observed in 30 fishing vessels
- In 20 vessels regular use of liquid hand wash and filling of soap dispensers
- About 50% ie. 60 trawlers use 40 mm Square mesh cod end

VASCO

- 25 fishing vessels use rubber hand gloves during onboard handling of fish
- Use brushes for crates, deck cleaning in 25 fishing vessels
- Use Liquid hand wash/ regular filling of soap dispensers in 25 fishing vessels



Usage of gloves



Usage of plastic sheets, PVC shovel & Hand wash

Impacts

- In Mirkarwada Squid rate has increased from Rs. 250-280/- to Rs. 280-300/- ie. an increase of Rs. 50-60/- per Kg.
- In Devgad Squid rate has increased from Rs. 300-310/- to Rs. 350-370/- ie. an increase of Rs. 20-30/- per Kg. Prawns rate has increased from Rs. 150-180/- to Rs. 200-220/- ie. an increase by Rs. 50-60/- per Kg.

SEAFOOD UNIT TRAINING PROGRAM

- One Day Level-1 training program was conducted on 07.02.2024 at Gadre Marine Export Pvt Ltd., Ratnagiri benefitting 29 people including food technologists, microbiologists, quality control staff, processing unit workers/supervisors, packing supervisors, cold storage supervisors, etc. in the Processing unit. The training covered aspects such as hygiene & sanitation in Surimi plant, maintenance of product quality, role of ice & water, fish spoilage, processing & value addition of fishery products, basic principles of HACCP, microbiology, traceability, seafood quality issues in various markets, avoiding rejections of consignments etc. Videos and documentaries related to personal hygiene and hygienic fish handling were shown during the training. Hands on training on hand washing procedure were also done. The program was conducted by collecting a training fee of Rs. 10000/-. The trainees were given participation certificates.



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Impacts

- Implemented checking of temperature of products at every stage of processing to avoid loss of quality
- Improved hand washing technique of workers at each entry points

SWACCHATA PROGRAM

- Cleanliness campaign was organized on 28th October 2023 at Mirkarwada fishing harbour in association with MPEDA-NETFISH and National Service Scheme, College of Fisheries Shirgaon Ratnagiri. On the occasion of the inauguration of this campaign Dr. Suresh Naik, Associate Dean of Fisheries College Shirgaon Ratnagiri, MPEDA Regional Division Mumbai Deputy Director Dr. Jibinkumar and NETFISH State Coordinator Mr. Santosh Kadam guided the participants. Students of College of fisheries enthusiastically participated in this program. Swacchta Abhiyan was started with Prabhat Ferry. At this time, awareness announcements were made to free the marine environment from plastic. After that plastic waste was collected and cleaned from the fish market area of Mirkarwada harbour. About 300 kg plastic waste was collected on this occasion.
- During this cleanliness drive, the volunteers of National Service Scheme as well as National Service Scheme Program Officer Dr. Sandesh Patil, Shri. Ratnakar Rajam Fisheries Development Officer was present. For the successful completion of the program, Mr. Nitin Javare and Shri. Mayuresh Shivilkar, the HDCs of MPEDA-NETFISH provided valuable support.



Clean-up drive at Mirkarwada Harbour

STAKEHOLDER'S MEETING

- Arranged a Meeting with the President and members of Goa Fishing Boat Owners Association on 29th Aug. 2023 at Vasco and explained the role of MPEDA and NETFISH
- On 21st Oct. 2023, a meeting was held with the Board of Directors of APMC, Ratnagiri and explained them the MPEDA-NETFISH activities to improve hygiene, sanitation and the quality of raw material at the fishing harbours/ Landing centres and discussed regarding the proposal

submitted to them to get funds to initiate Pre-cooling activity at the Mirkarwada harbour. The APMC started regular cleaning once in a Week at Mirkarwada harbour from December 2023.

OTHER ACTIVITIES

- Attended workshop on TED implementation from 20-26 Feb. 2024 at CIFT, Kochi
- Attended the TED workshop at Mumbai on 23rd Jan. 2024 and coordinated for the participation of boat owners and nodal officer from Maharashtra South & Goa.
- Attended the Workshop with State Govts. for Enhancing Seafood Exports, organized by DOC, GOI & MPEDA at Benaulim Goa during 14-16 June, 2023
- Attended the District Development Strategic Plan Meeting organized by District Collector Office, Ratnagiri on 07.07.2023
- Attended the District Export Promotion Committee Meetings at Ratnagiri on 13.07.2023 and Sindhudurg on 27.07.2023
- Attended the Workshop "District Export Promotion Program" organized by Collector Office, Ratnagiri on 31.08.2023
- Took part in the Swacchata Cleanup Campaign at MIDC Taloja on 10.10.2023
- Attended the Webinar "Introduction to upcoming integrated Marine / Aquaculture Park in Harna" arranged by Grant Thornton Bharat LLP and MIDC on 13.10.2023
- Attended the Virtual Meeting "District Strategic Plan, Ratnagiri Industrial Sector" on 02.11.2023
- Attended the deliberations on Pre-processing practices prevailing at Sassoon dock organized by CIFT at FSI, Colaba, Mumbai on 09.11.2023
- Functioned as resource person in the Joint Programs with Reliance Foundation arranged on 05.01.2024 & 07.03.2024 at Ratnagiri & Sindhudurg respectively.
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc. and monitoring of activities of the HDCs were done.
- Arranged training for the Marine Observers on Identification of Marine mammals and turtles and their sighting and fishery interaction data collection.
- Disseminated about 102 awareness messages through 10 Whatsapp groups formed at 10 harbours, each message reaching around 665 fishery stakeholders



Participation in Reliance foundation program & DoC Workshop

4.11

MAHARASHTRA NORTH

Dr. Girija S. Behere, State Coordinator MPEDA-NETFISH, has conducted all NETFISH activities in the Northern coastal districts of Maharashtra. These efforts encompassed a total of 556 programs, including 70 general fund programs, 3 SC/

ST programs, 31 externally funded programs, 406 awareness classes conducted by HDCs, and 39 other activities (refer to the Table). These initiatives collectively benefited 3979 fishery stakeholders.

Table: Activities Conducted in Maharashtra North during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	64	1066
	Dryfish Development Programs	1	16
	Stakeholder Meetings organized by SCOs	10	23
	Swacchata program	1	101
	Workshop	1	59
	Total General fund programs	77	1265
2	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Harbour based Program for SC Fishers	1	30
	Harbour based Program for ST Fishers	2	60
	Total SC/ST programs	3	90
3	EXTERNAL FUNDED PROGRAMS		
	Seafood Unit Training Program	15	511
	Mangrove Foundation, Maharashtra funded Value Addition Trainings	11	247
	Training for Marine Observers	5	17
	Total (external funded programs)	31	775
4	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	406	1753
	Training/Evaluation of HDCs	9	-
	Participation of SCO in meetings/classes organized by others	17	-
	Coordination of visit of officials from MPEDA & other Dept.	4	-
	Collaboration with CIFNET - Tuna Onboard Training	1	12
	Ornamental fish Health Certification	7	-
	MY Bharat Program	1	84
	Total (other activities)	445	1849
	GRAND TOTAL	556	3979

HARBOUR BASED PROGRAMS

- Almost 85% of the activities ie. 473 programs conducted in Maharashtra North during 2023-24 were harbour based programs. Of these, 64 programs were conducted utilizing the NETFISH general fund and 3 program was exclusively for the SC/ST category fishers (see Table & Fig.). Rest of the programs (406 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Table). Fishers, boat owners, crew members, fish suppliers, fish auctioneers,

fish handlers, etc. were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as hand gloves, plastic sheets, plastic baskets, brush, pvc shovels, plastic crates, gum boots, baskets, handwash, detergent powder, rain coats & fish/ice boxes were given to the participants as an encouragement to adopt good practices



Harbour based training at New Ferry Wharf

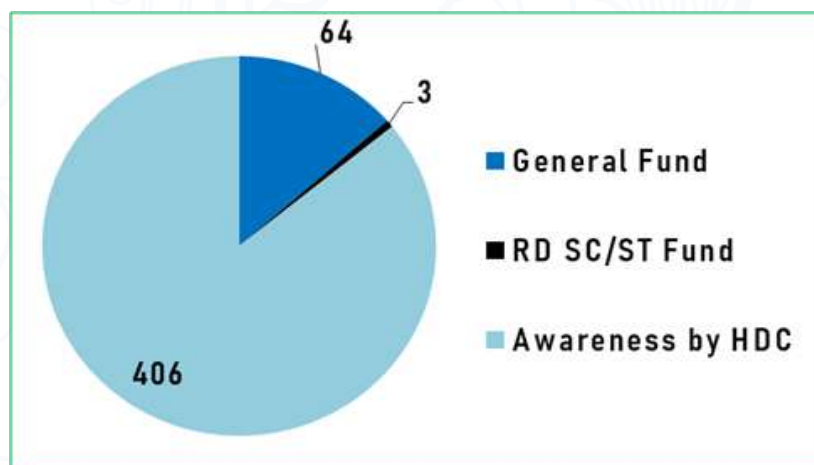


Fig. Category-wise total number of programs conducted in Harbours/LCs

Table: Category-wise number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of beneficiaries
NETFISH General Fund Programs		
New Ferry Wharf	32	505
Uttan	15	251

Alibaug	6	106
Vasai	6	91
Arnala	3	83
Sassoon dock	2	30
Total	64	1066
RD SC/ST Fund Programs		
Vavoshi, Raigad	1	30
Satpati LC	2	60
Total	3	90
Grand Total	67	1156

Awareness Programs/Meetings by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Alibaug	47	198	Fishers, fish handlers, fish auctioneers, fish suppliers, fisherwomen involved in fish drying business, boat owners, etc.	Hygienic handling on-board, importance of personal hygiene and sanitation, responsible fishing, icing and quick chilling, use of TED, use of square mesh cod ends, improved drying of fish, use of precooling technique and plastic crates for maintaining freshness of fish, MLS, responsible fishing, etc.
Arnala	42	275		
Dahanu	47	183		
New Ferry Wharf	48	243		
Sassoon dock	40	196		
Satpati and Murbe	48	162		
Uttan	48	214		
Vasai	47	200		
Versova	39	82		
Total	406	1753		

Table: Harbour-wise number of programs conducted by HDCs





Outcomes Achieved as a result of the Harbour Based Programs

NEW FERRY WHARF

- In 50 nos. of Boats the fishers adopted proper icing and hygienic handling
- Proper icing and chilling of fish in crates was adopted in 30 no. of boats. Use of stackable plastic crates inside fish holds to store fish and ice with 5-10% seawater improved quality of fish and reduced physical damage.
- 50 nos. of fish handlers started using PVC shovel/ trolleys & gum boots
- Daily cleaning of the jetty by Mumbai Port Authority
- 30 nos. of boat owners started usage of plastic sheets and clean plastic crates to keep fish

UTTAN

- Adoption of proper icing in 10 boats
- Improved handling practices like use of plastic baskets, use of hand gloves by fishers were observed
- Reduced dumping fish directly on floor by adopting the usage of plastic sheets to keep fish

ALIBAUG

- Adoption of proper icing in 15 boats
- Improved handling practices like use of plastic baskets, use of hand gloves by fishers
- 5 boats use new and clean plastic crates for keeping fish

- 10 boats use plastic sheets to keep fish thereby reduced dumping of fish directly on floor
- Cleaning of jetty area by auctioneers after daily auction

VASAI

- Adoption of proper icing
- Improved handling practices like use of plastic baskets, use of hand gloves by fishers leading to reduced post-harvest losses
- Reduced dumping of fish directly on floor through adoption of plastic sheets to keep fish
- Dustbins for dry and wet waste are kept in jetty premises by Vasai Virar Municipal Corporation

ARNALA

- Collection of single use plastic from 20-30 boats by NGOs
- 60-70% improvement in hygienic handling practices like use of plastic sheets to keep fish and ice

SASSOON DOCK

- 10 boats use pulley system to minimize handling of fish and ice and store fish in crates with ice & seawater mixture
- 20% fishers and fish handlers dispose plastic wastes, food wrappers in to the boxes kept by stall owners

SATPATI

- 50% fishers use insulated ice/ fish boxes, gum boots and hand gloves during fishing operation



Cleaned New Ferry Wharf



Increased usage of plastic crates onboard



Usage of plastic crates



Usage of plastic sheets at New Ferry Wharf



Usage of PVC Shovels at Sassoon dock



Hangloves used at Sassoon dock



New crates at Alibag



Icing at Satpati

Impacts

- In New Ferry Wharf, the boats practicing precooling/ icing in tub are getting increased rate at harbor. Ribbon fish rate has increased from Rs. 50-80 per kg to Rs. 100-150/Kg; Squid from Rs. 100-150/Kg to Rs. 200-350/Kg & Cuttlefish from Rs. 200-300/Kg to 350-420/Kg
- Reduced reddening in squid
- Reduced belly burst in ribbon fish
- Improved hygienic handling practices resulting in reduced post-harvest losses

DRY FISH DEVELOPMENT PROGRAMS



Training for workers from Fish Maws Export Units



- Conducted a dryfish development program at KMC Exporters Pvt. Ltd., Uttan, providing training to 16 workers from Fish Maws Export Units namely; KMC Exporters, National Exports & HP Enterprises. Handwash & Brush were provided to the trainees.

Outcomes Achieved as a result of the Dryfish Development Program

- Awareness training resulted in improved hygienic handling and personal hygiene of fish maws processing workers in Uttan
- Reduced post-harvest losses and improved quality of fish maws

WORKSHOP ON 'DEVELOPMENT AND IMPLEMENTATION OF TED'

- A Stakeholders' Workshop on "Development & Implementation of Turtle Excluder Device (TED) in India" was organized by MPEDA & NETFISH along with ICAR-CIFT on 23.01.24 at Navi Mumbai to sensitize the stakeholders and to formulate adequate methodologies towards developing and implementing TED in India. Around 59 participants including representatives from ICAR-CIFT, ICAR-CIFE, ICAR-CMFRI, Export Inspection Agency, Fishery Survey of India, Seafood Exporters Association of India, Mangrove Foundation of Maharashtra, Nodal Officers from State Fisheries Dept, & Boat owners' representatives from maritime states and UTs in the West Coast had attended the workshop.



TED Workshop for Stakeholders from West Coast

SEAFOOD UNIT TRAINING PROGRAM

- Conducted 15 nos. of awareness training programs benefitting 511 trainees including Factory Managers, QC Managers, QC Staffs, Workers from various sections including Pre-processing, processing, packing, cold storage, etc. at different Seafood Processing units in Maharashtra (see table). The programs were conducted by

collecting a training fee of Rs. 10,000/-. Training included theory session on Introduction to fish and fish processing, Fish and Ice, Fish spoilage, preservation methods, Hygiene, sanitation, good handling practices, personal hygiene, Covid 19 protocols, etc. and Practical session on Hygienic handling practices, personal hygiene & sanitation.

Sl.No:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	Western Super fresh Stores Pvt. Ltd.	Kalyan Phata, Thane	07.07.2023	30
2	Naik Oceanic Exports Pvt. Ltd.	Taloja, Raigad	11.07.2023	40
3	Hejazi Food Stuff Pvt Ltd.	Taloja, Raigad	12.07.2023	29
4	Elaf Cold Storage Pvt Ltd.	Taloja, Raigad	19.07.2023	35
5	Shroff Processed Foods and Cold Storage Pvt. Ltd.	Nerul, Navi Mumbai	21.07.2023	26
6	Rizwan Ice and Cold Storage	Turbhe, Navi Mumbai	25.07.2023	36
7	Sanchita Frozen Foods Pvt Ltd.	Taloja, Raigad	27.07.2023	35
8	Noor Ice and Cold Storages Pvt Ltd	Taloja, Raigad	04.08.2023	36
9	Sonia Marine Exports PL	Taloja, Raigad	09.08.2023	38
10	Gausia Cold Storage Pvt. Ltd.	Taloja, Raigad	16.08.2023	35
11	Vasai Star Foods	Poman, Palghar	11.10.2023	35
12	Vasai Frozen Foods Co.	Poman, Palghar	12.10.2023	38
13	Nanak Nutritions Pvt Ltd.	Taloja, Raigad	07.11.2023	30
14	Sea Saga Enterprises Pvt. Ltd.	Rabale, Navi Mumbai	23.11.2023	38
15	VKM Foods Pvt. Ltd.	Taloja, Raigad	15.12.2023	30



Seafood unit training at Vasai

SWACCHATA PROGRAM

- A Cleanliness Drive with the participation of seafood exporters in the Zone M of Talaja Maharashtra Industrial Development Corporation (MIDC), Raigad was held on 10th October, 2023, in the morning hours. Seafood exporters and workers from 15 seafood export units, Officials of MPEDA & NETFISH and harbour data collectors actively participated in the drive. Dr. Girija Behere, SCO, NETFISH welcomed the participants and briefed about the activities. Dr. T. R. Gibinkumar, DD, MPEDA RD, Mumbai inaugurated the event and enlightened the gathering on the importance of cleanliness and hygiene. Awareness was created on plastic waste management among the fish processing unit workers. The program started with a rally throughout the stretch of 2.5 kms with banners and placards displaying awareness messages. Exporters appreciated efforts by MPEDA-NETFISH as it is the first time of organization of such cleanliness drive. Local police representatives also attended the program. Seafood

exporters Mr. Rohan Thakur, Nanak Nutritions Pvt Ltd, Talaja, Mr. Sandip Dongare, Sanchita Marine Exports PL, Talaja, Mr. Farhaz Dosani, Rizwan Ice and Cold Storage, Talaja, Mr. Haridas Nair, Castlerock Fisheries Pvt Ltd participated in the drive.

During the campaign, around 100 bigger size bin bags of plastic waste was collected and sorted. The collected waste was disposed off properly through the waste collection system of Municipal Corporation. A total of 2.5 kms stretch in Zone M with maximum no. of seafood export units was cleaned. T-shirts and umpire caps were distributed and refreshment was arranged to volunteers by MPEDA-NETFISH. Hand gloves, sanitizers, handwash, masks were also provided to the participants from MPEDA-NETFISH. Seafood exporters made arrangements for few cleaning materials like brooms, shovels, dust pans, etc. Nearly 100 participants took part in the clean-up program. All the officials from MPEDA, NETFISH and the harbour data collectors coordinated well for successful conduct of the program.



Clean Up Campaign in Zone M Talaja MIDC

MAHARASHTRA MANGROVE FOUNDATION FUNDED VALUE ADDITION TRAININGS

- MPEDA-NETFISH received a total amount of Rs. 4,25,656.00/- from Mangrove Foundation of Maharashtra for conducting Value Addition Trainings for Fishers. Altogether 11 hands on trainings were arranged of which 3 were in Thane benefitting 44 SHG members, 7 in Palghar benefitting 159

SHG members and 1 in Raigad district benefitting 44 SHG members. Aprons, Caps, Napkins, Cutting Boards, Knives, Folder & pen were provided to the trainees. An amount of Rs. 38062/- was generated as external income for NETFISH, given as Institutional charge.

Sl. No.	Program Date	Location	No. of beneficiaries
1	27.04.23	Surai Sarang Village, Thane	15
2	28.04.23	Surai Sarang Village, Thane	19
3	03.11.23	Mogharpada, Thane	10
4	13.12.23	Karawle Village, Palghar	21
5	14.12.23	Karawle Village, Palghar	12
6	21.12.23	Rangaon Village, Palghar	33
7	22.12.23	Naringi, Palghar	12
8	29.12.23	Dahanu, Palghar	25
9	03.01.24	Chandigaon, Palghar	28
10	05.01.24	Dandi-Pokharan, Palghar	28
11	17.01.24	Shrivardhan, Raigad	44

Impacts

- After the training, the SHGs members are selling value added fish products at various places by hiring stalls in exhibitions in Thane and Raigad District, as their livelihood activity.
- A scheme providing 90% subsidy for Value addition Small Scale Production Unit has been formulated by Mangrove Foundation of Maharashtra based on the suggestions from SCo who acted as an expert to form a scheme.



Products prepared during Value addition training

MY BHARAT PROGRAMS

- Coordinated in organizing a MY Bharat event by RD Mumbai on 04.03.2024 on the topic Harnessing Employment Opportunities in Fisheries Sector. A total of 84 students from 3 colleges viz. Changu Kana Thakur College of Arts Commerce and Science, New Panvel, Veer Wajekar Arts, Science and Commerce College, Phunde, Uran & Mahatma Phule Arts, Science and Commerce College, Panvel. The program included lecture on MPEDA and its activities by Dr. T. R. Gibinkumar, DD, MPEDA RD, Mumbai, Talk on Employment Opportunities and Entrepreneurship Opportunities in Fisheries Sector by Dr. Girija Saurabh Behere, SCo, North Maharashtra.



MY Bharat events

COLLABORATION WITH CIFNET

- MPEDA-NETFISH coordinated in arranging 12 fishers from Raigad, Palghar and Mumbai Districts for the Capacity Building Training on Monofilament longline and tuna handling onboard at CIFNET, Kochi held during 19-24 June 2023 (06 Days). After the training, the fishers from Palghar, who are owners of dol net and gill net boats, expressed willingness to apply for deep sea fishing vessel scheme under PMSSY in State Department of Fisheries. A total of 13 proposals on modification of existing trawlers into Tuna Long Line Deep Sea Fishing Vessels have been sanctioned by State Fisheries Department, Maharashtra under PMMSY and we have requested to make the proposal open for dol netters and gill netters as well.



Onboard training for Tuna fishers by CIFNET

STAKEHOLDER'S MEETING



Meetings at New Ferry Wharf

Date	Location	Purpose
12.04.2023	MPEDA RD, Mumbai	Discussion with Mr. Jayesh Akre, Director, Blue Ocean Fish Cluster Foundation, Palghar regarding NETFISH activities, training programs and possibility of conducting training programs for export promotion
04.05.2023	ICAR-CIFE, Versova Old Campus, Mumbai	Meeting with Mr. Kiran Koli, Fish Boat Owner, Maharashtra Machhimar Kriti Samiti in connection with deep sea fishing skill development trainings
29.05.2023	New Ferry Wharf Fishing Harbour, Mumbai	Meeting with Stakeholders (Fish Supplier and Woman Workers union head) regarding Pre and post assessment survey to assess impact of trainings, Aid material to be distributed & support for visible impact
12.06.2023	Mumbai Port Authority Office, Fort, Mumbai	Meeting with Executive Engineer, Mumbai Port Authority regarding development of Sassoon dock and New Ferry Wharf Harbours in Mumbai
10.07.2023	Pali Uttan Machhimar Cooperative Society, Pali, Uttan	Meeting with Mr. Bernard D'Mello, Chairman, Pali Uttan Machhimar Cooperative Society, Pali, Uttan regarding export promotion and post-harvest loss reduction
22.08.2023	MPEDA RD, Mumbai	Meeting with Mr. Pramod Joshi, NMMC and Mr. R. M. Mhatre (Official from Sagari Kala Manch, Navi Mumbai) regarding organizing seminar/workshop for fishers regarding sustainable fishing, hygienic handling, etc.
08.09.2023	New Ferry Wharf Fishing Harbour office of Mumbai Port Authority	Meeting with Shed Manager, New Ferry Wharf, Mumbai Port Authority in connection with changes needed at New Ferry Wharf harbour
26.09.2023	New Ferry Wharf Fishing Harbour office of Mumbai Port Authority	Meeting with LO, New Ferry Wharf regarding implementation of square mesh cod end and precooling Mr. Ravi Badhwar, Licensing Officer, New Ferry Wharf, State Dept. of Fisheries
15.11.2023	New Ferry Wharf Fishing Harbour office of Mumbai Port Authority	Meeting with Shed Manager, Mumbai Port Authority at New Ferry Wharf and submitted dos and don'ts letter for new ferry wharf harbour
15.02.2024	MPEDA RD, Mumbai	Meeting with Dr Manda Mhatre, HOD, Zoology, CKT College, Panvel regarding MY Bharat Events

OTHER ACTIVITIES



Training to marine observers & participation in by-catch surveys

- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Attended 3 days Hands on training program on Seafood Value addition organized by MPEDA in Mumbai, Veraval & Kolkata

- Attended Seafood Exporters Meet for Maharashtra region held on 18.05.23
- Attended Exporters Meet for Maharashtra region held on 23.01.24
- Attended Mega Awareness Campaign on Ocean Information and Advisory Services for fishers from whole Maharashtra organized by INCOIS and Reliance Foundation at Navi Mumbai on 3.08.23 and delivered a talk on "Export opportunities and technological interventions" for Fishers
- Attended MPEDA Stall Duty in Swarajya Bhumi Global Konkan Festival 2024 on 26th Jan. 2024
- Attended stakeholders meeting and mass awareness campaign for pre-processing workers regarding reducing foul smell at Sassoon dock organized by ICAR-CIFT on 09.11.23
- Attended webinar on antimicrobial resistance organized by MPEDA on 23.11.23
- Attended Workshop on COVID Pandemic and Marine Fisheries Sector in India: Impacts, Externalities and Stakeholders Reflection on Adaptation and Mitigation organized by ICAR-CMFRI, Mumbai Research Centre under ICSSR sponsorship on 04.05.23 at Versova, Mumbai
- Delivered an invited talk on 'Export promotion measures by MPEDA for ornamental fish sector' in 'one week skill development programs on ornamental fish culture and aquarium management' organized by Department of Aquaculture, ICAR-CIFE, Mumbai for entrepreneurs in aquarium business on 24.08.23
- Delivered an invited talk on Fish processing, hygienic handling and value addition for fishers from Raigad and Navi Mumbai in one day workshop on Fisheries organized by Sahakar Bharati and Sagari Seema Manch, Navi Mumbai on 10.09.23
- Delivered an invited talk on Introduction to Fishpreneurship in one week training program at SKUAST, Kashmir on 07.12.23
- Presented an invited talk in virtual mode on "Fish Processing, Value addition and hygienic handling" in the 5 days training program organized by Department of Fish Processing Technology, SKUAST, Kashmir on 22.09.23
- Participated in beach clean-up activity organized by Arnala Social Work Welfare Association on 29.10.23 at Arnala.
- Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc. and monitoring of activities of the HDCs were done.
- Arranged training for the Marine Observers on Identification of Marine mammals and turtles and their sighting and fishery interaction data collection.
- Disseminated about 198 awareness messages through 10 Whatsapp groups formed at 10 harbours, each message reaching around 750 fishery stakeholders
- Inspection of Ornamental fish for export were done & issued 7 nos. of Health Certificate to various ornamental fish export units.



SCO attending stall duty in Global Konkan Festival



Delivering a talk at CKT College Navi Mumbai

4.12 GUJARAT

Shri. Jignesh M Visavadia, State Coordinator MPEDA-NETFISH, has managed all NETFISH activities in the coastal districts of Gujarat. These efforts consisted of a total of 497 programs, including 77 general fund programs, 8 SC/ST programs, 15 externally funded

programs, 363 awareness classes conducted by HDCs, and 34 other activities (refer to the Table). These initiatives collectively benefitted 4561 fishery stakeholders.

Table: Activities Conducted in Gujarat during 2023-24

Sl.	Type of Program	No: of Programs conducted	No: of Beneficiaries
1	NETFISH GENERAL FUND PROGRAMS		
	Harbour based Programs	61	1151
	Dryfish Development Programs	7	120
	Stakeholder Meetings organized by SCOs	7	31
	Swacchata program	1	200
	Workshop	1	40
	Total General fund programs	77	1542
2	MPEDA RD/SRD SC & ST FUND PROGRAMS		
	Seafood Unit training for SC/ST workers	8	221
	Total SC/ST programs	8	221
3	EXTERNAL FUNDED PROGRAMS		
	Seafood Unit Training Program	13	397
	Seafood Value Addition Training	1	30
	Training for Marine Observers	1	6
	Total (external funded programs)	15	433

4	OTHER ACTIVITIES		
	Awareness classes/Meetings conducted by HDCs	363	2240
	Training/Evaluation of HDCs	11	-
	Participation of SCO in meetings/classes organized by others	19	-
	Coordination of visit of officials from MPEDA & other Dept.	1	-
	Collaboration with CIFNET – Tuna Onboard Training	2	36
	MY Bharat Program	2	89
	Total (other activities)	397	2365
	GRAND TOTAL	497	4561

HARBOUR BASED PROGRAMS

- Almost 85% of the activities ie. 424 programs conducted in Gujarat during 2023-24 were harbour based programs. Of these, 61 programs were conducted utilizing the NETFISH general fund and rest of the programs (363 nos.) were the regular awareness classes arranged through the Harbour Data Collectors in their respective harbours (see Tables & Fig.). Fishers, boat owners, crew

members, fish suppliers, fish auctioneers, fish handlers, etc. were the targeted beneficiaries of these programs and they were enlightened on hygienic fish handling & preservation practices onboard and in harbours for keeping the quality of the material to earn better price and sustainable fishing practices for conservation of fishery resources. Aid materials such as Crates, Shovel, Gumboot, Gloves, Detergent Powder, Brush, Boxwere given to the participants as an encouragement to adopt good practices.



Fisher training at Porbandar

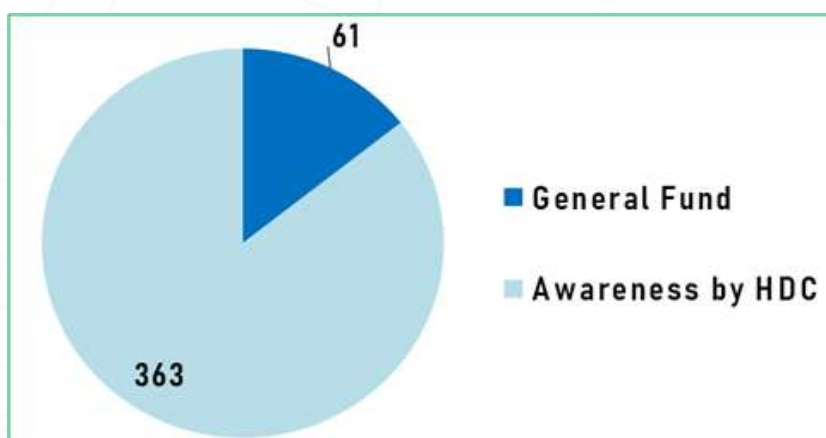


Fig. Category-wise total number of programs conducted in Harbours/LCs

Table: Number of programs conducted in Harbours/LCs

Harbour/LC	No: of Programs conducted	No: of beneficiaries
NETFISH General Fund Programs		
Veraval	31	739
Mangrol	10	171
Porbandar	15	241
Total	61	1151

Awareness Programs/Meetings by HDCs



Table: Harbour-wise number of programs conducted by HDCs

Harbour	No: of Programs	No: of Beneficiaries	Beneficiary group	Topics
Veraval	65	343	Boat owner/ crew member/ fishers/ suppliers	Fish quality Management & Sustainable fishing, plastic eradication
Mangrol	44	427		
Porbandar	79	426		
Chorwad	58	315		
Okha	25	136		
Vanakbara	85	553		
Kotada	7	40		
Total	363	2240		

Outcomes Achieved as a result of the Harbour Based Programs

VERAVAL

- On-board quick chilling practice is followed in 50% boats
- 50% boats bring clean sea water from sea and use for washing the catch
- 50% boats bring plastic waste from Sea
- 50% fishing vessels clean during each fishing trip with clean sea water

MANGROL

- On-board quick chilling practice is followed in 30% boats
- 30% boats bring clean sea water from sea and use for washing the catch
- All boats bring plastic waste from Sea

- 30% fishing vessels clean during each fishing trip with clean sea water

PORBANDAR

- On-board quick chilling practice is followed in 30% boats
- 30% boats bring clean sea water from sea and use for washing the catch
- 30% boats bring plastic waste from Sea
- 30% fishing vessels clean during each fishing trip with clean sea water

Impacts

- By practicing on-board quick chilling, boat owner are getting Rs.50,000/- to Rs.1,50,000/- more per trip



Pre-cooling practice in FVs at Mangrol



Storing clean seawater for cleaning



Use of square mesh cod end



Cleaning vessels and equipments after voyage



Fishers bringing back plastic wastes from sea, its collection and disposal

DRY FISH DEVELOPMENT PROGRAMS



Training for Dryfish workers at Umaragam

- Conducted 7 nos. of dryfish development programs in Umargam, providing training to 120 dryfish workers on hygienic handling and methods for the production of good quality dryfish items. Plastic Basket, Plastic Tub & Plastic Sheet were provided to the trainees.

Outcomes Achieved as a result of the Dryfish Development Program

- Hygienic Handling of fish for drying improved by 60% in Umargam
- Raw material is washed in good water
- Use Ice to maintain fish quality
- All are using plastic sheet to keep fish for drying
- 20% of fishers have changed packing style and fetching good price than traditional packaging (Rs.50 to Rs.150/- more per kg)



Use of plastic sheet, clean crates, icing for hygienic fish drying at Umargam

PRELIMINARY WORKSHOP ON 'DEVELOPMENT AND IMPLEMENTATION OF TED'

- To create awareness among fish net Manufacturer about TED importance and it's fabrication a preliminary workshop entitled 'Development & Implementation of Turtle Excluder Device (TED)' was conducted on 20th Dec. 2023 in Veraval, in collaboration with CIFT. About 40 people mostly the net manufacturers had attended the workshop. Some of the net manufactures shown interest for fabrication of TED in commercial scale.
- The event commenced with a welcome address by Dr. Joice Thomas, CE NETFISH. Shri Anilkumar P, Joint Director-M, MPEDA, emphasized the significant impact

of the US ban on sea-caught shrimp and underscored the need for stringent TED implementation in Indian trawlers. Dr. Ashish Jha, Scientist-in-Charge, CIFT, Veraval, offered felicitation. Shri Sakthivel A, AD, MPEDA, provided a comprehensive overview of US laws and the TED implementation framework in India. Dr. Madhu V R, Principal Scientist, CIFT, Kochi, delivered an insightful presentation on the design and specifications of TED in accordance with NOAA guidelines. A demonstration of the CIFT-designed TED was also done for the participants.



TED Preliminary workshop at Veraval

SEAFOOD UNIT TRAINING PROGRAM

- Conducted 13 nos. of awareness training programs benefitting 397 trainees including Sea Food Processing plant workers & supervisor at different Seafood Processing units in Gujarat (see table). These programs were conducted by collecting a training fee of Rs. 10,000/-. Training included theory session on Introduction

to fish and fish processing, Fish and Ice, Fish spoilage, preservation methods, Hygiene, sanitation, good handling practices, personal hygiene, Covid 19 protocols, etc. and Practical session on Pre-processing, grading & processing, Preservation methods, Hygienic handling practices, personal hygiene and sanitation protocol. After the training, the trainees were assessed and provided with certificates.



Training to processing unit workers

Sl. No:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	Amarsagar Sea Food Pvt.Ltd.	Porbandar	16.08.23	31
2	Amar Food Products	Porbandar	17.08.23	30
3	Hiravati Marine Products	Porbandar	12.10.23	30
4	Nishiindo Foods	Veraval	04.01.24	32
5	Silver Sea Foods	Porbandar	05.01.24	30
6	Silver crustacea Exports	Porbandar	06.01.24	32
7	Silver Star Exports	Porbandar	12.01.24	30
8	Shri Niddhi Exports	Porbandar	02.02.24	32

9	Mamta Cold Storage	Veraval	05.02.24	30
10	West Coast Foods	Porbandar	07.02.24	30
11	K.R Sea Food	Porbandar	08.02.24	30
12	Navrang Sea Foods	Porbandar	09.02.24	30
13	Sea Star Frozen Food	Porbandar	20.02.24	30

➤ Also conducted 8 nos. of awareness training programs benefitting 221 SC/ST workers & Supervisors at different Seafood Processing units in Gujarat (see table). The trainings were arranged utilizing the MPEDA RD SC/ST fund. Training covered topics such as importance of sea food processing, bacterial contamination, personal hygiene requirements, do's & don'ts inside processing facilities, importance of chlorination, importance of

proper icing and cold chain maintenance, handling of sea food inside the processing / pre-processing plant etc. Videos on hygienic seafood processing were also shown to the participants. Participants are highly impressed that they have been called for such training program and provided good environment/arrangements for learning on the various subjects mentioned above and agreed to implement the same in sea food processing plant.



Training to SC/ST workers at Processing units

Sl.No:	Name of the Processing Unit	Location	Program Date	No: of Beneficiaries
1	Deepmala Fisheries	Veraval	10/10/23	28
2	Keshodwala Foods Unit-II	Veraval	26/12/23	30
3	Keshodwala Foods Unit-II	Veraval	27/12/23	28
4	Keshodwala Foods Unit-II	Veraval	03/01/24	30
5	Shri.Chanunda Vikas Trust	Veraval	06/02/24	29
6	Amarsagar Sea Food Pvt.Ltd	Porbandar	29/02/24	30
7	Amar Food Products	Porbandar	01/03/24	20
8	Keshodwala Foods Unit-I	Veraval	15/03/24	26

Impacts

- Personal hygiene of workers have improved
- Reduced post-harvest loss by maintaining time and temperature of the products
- Maintaining cleanliness of food contact surface
- The SC/ST workers have stopped the practice of wearing jewellery, using nail polish & lips stick, chewing, spitting etc. at the work place

HANDS ON TRAINING PROGRAM ON VALUE ADDITION OF SEAFOOD PRODUCTS

- Conducted a hands-on training program to equip workers, managers, supervisors, and technologists with the skills needed to prepare value-added cephalopod products, showcase a variety of value added products and encourage wider adoption of value-added processing among seafood exporters in Gujarat. The two-days

training program was held during 6-7 March, 2024, at M/s. Navrang Sea Foods in Porbandar. A total of 30 participants actively engaged in the training. State Coordinator, NETFISH, led the training, demonstrating pre-processing and processing techniques alongside a team of experienced supervisors and technical personnel. The program received valuable support from Shri. Shrimali Vinodkumar M, Deputy Director, MPEDA SRD, Porbandar, and Shri. Kishorkumar Vaniya, Asst. Director, MPEDA RD, Veraval. They not only facilitated the training but also encouraged other seafood exporters to participate in similar programs and explore value-added exports. Shri. Mukesh Lodhari, the owner of Navrang Sea Foods, expressed his appreciation to the MPEDA-NETFISH team for organizing the timely and valuable training program. The success of this training program demonstrates a positive step towards diversifying Gujarat's seafood exports. By embracing value addition and exploring new markets, the industry can ensure its long-term sustainability and contribute to the economic well-being of those involved in the sector.





Training on Value addition of Cephalopods

SWACCHATA PROGRAM

➤ MPEDA-NETFISH conducted a cleanliness drive on 28th October 2023 at Mangrol fishing harbour in association with Mangrol Kharva Samaj, Boat association, Mahavir fishermen cooperative society, Dariyalal fishermen society etc. The program was inaugurated by Shri. Bhagvanjibhai Kargatiya, MLA Mangrol. Shri. Parshotambhai Khorava President of Fishermen Community, Mangrol, Shri. Kishanbhai Garchar, SDM, Mangrol, Shri. Veljibhai Masani National Vice President OBC Morcha, Shri. K. G. Lukka, Mamaltdar Mangrol, Shri. Mukeshbhai Vaghela, Chief Officer Mangrol Municipality, Shri. Rahulsinh Vala, Range Forest Officer, Shri. Pravinbhai Rada, Superintendent of Fisheries Department of Fisheries Mangrol, Shri. Shitlaben Solanki, PSI, City Police station Mangrol, Shri. Nileshbhai Somaya, President Mangrol City, Shri. Sheshendra Shirodkar, AD, MPEDA, RD, Veraval and Jignesh Visavadia,

SCO NETFISH, Officials of Marine Police Station Mangrol, Shri. Khimjibhai Hodar, President of Boat Association, Mangrol, Shri. Jiteshbhai Khorava, President Daliyala Hodi Association, President, Mahavir Machhimar Sahakari Mandli, Mangrol, Students & teachers staff of Parmesh Vidyalay, Mangrol had attended the program. The dignitaries during their talk, highlighted on swachhta program and its importance and need to keep harbours and surroundings neat and clean on a daily basis.

MPEDA-NETFISH, provided T-shirt, cap, gloves mouth pieces, waste collecting bags and cleaning accessories to the participants. More than 200 participants joined in this program and cleaned the harbour and surrounding. Around 2000 kgs. plastic and solid waste were collected and disposed off properly. Shri. Damodarabhai Chamudiya, President of Mahavir Fisheries Cooperative Society, Mangrol expressed his gratitude to MPEDA-NETFISH for organizing such kind of program at Mangrol Fishing Harbour.



MY BHARAT PROGRAMS

- Coordinated in organizing two MY Bharat events by RD Veraval. The first event on 'TED for Turtle Safety' was held on 11th March 2024 with a participation of 36 youths from

fishermen community. Another event on 'Sustainable Fishery & Market Access' was held on 15th March 2024 with a participation of 53 youths from fishermen community.



My Bharat events

COLLABORATION WITH CIFNET

- MPEDA-NETFISH coordinated in arranging 36 fishers from Gujarat for the Capacity Building Training on Monofilament longline and tuna handling onboard at CIFNET, Kochi held during 19-24 June 2023 (06 Days) and 10-15 July 2024. The

training included 3 days class room sessions and 3 days hands-on training program in CIFNET training vessel. After the training, the trainees expressed their willingness to apply for subsidy of long line deep sea fishing vessel scheme under PMMSY of DoF.



CIFNET Training for Tuna fishers

STAKEHOLDER'S MEETING

Date	Location	Purpose
21.12.23	Mangrol	Conducted stakeholders meeting on development of Mangrol FH and impact of NETFISH training programs
19.03.24	Gandhinagar	Conducted meeting with Director of Fisheries, Gandhinagar regarding State Action plan which include Implementation of TED, Square mesh Code end, formation of Enforcement wing, amendment of MFRA, Aquaculture/cage culture lease and license policy, Harbour Development, etc.
22.12.23	Gandhinagar	Conducted meeting with Director of Fisheries, Gandhi Nagar regarding various harbour issues.
25.05.23	Veraval	Conducted meeting with President of SC workers Self-help group and discussion made on conducting sea food processing/Value addition training programs
03.05.23	Veraval	Conducted meeting with Veraval Boat Association (Sagarputra Foundation) regarding SC/ST scheme.
20.09.23	Mangrol	Discussion with Mahavir fisheries Cooperative society regarding formation of HMC, use of Square mesh cod end, conduct of Harbour Clean-up program etc.
05.09.23	Porbandar	Discussion with Porbandar boat association members regarding extension of fishing ban period, plastic waste collection from sea, harbour clean-up program to be conducted on International coastal clean-up day etc.



Stakeholder meeting

OTHER ACTIVITIES

- Attended stakeholders workshop on implementation of TED in India from 20-26 Feb. 2024 at CIFT, Kochi
- Attended the TED workshop held at Mumbai on 23rd January 2024 and coordinated for the participation of boat owners and nodal officer from Gujarat in the workshop.
- Attended 3 days Hands on training program on Seafood
- Value addition organized by MPEDA in Mumbai, Veraval & Kolkata
- Attended meeting with exporters organized by RD, Veraval on 18.05.23, 02.08.23 & 20.12.23
- Participated in the MPEDA HACCP training program held during 18.07.23 - 21.07.23 in Veraval
- Participated in the online National Surveillance Program for Aquatic Animal Diseases organized by ICAR National

bureau of Fish genetic Resource (NBFGR), Lucknow on 28.06.23

- Participated in the three days training program on Seaweed cultivation & Processing Technology during 17.01.24 to 19.01.24 at CSIR-CSMCRI, Bhavnagar
- Participated in Clean-up program organized by RD MPEDA on 21.10.23 at Bhidya plot, Near Veraval Harbour
- Attended meeting with Commissioner of Fisheries, Deputy commissioner and Deputy Director fisheries regarding State Action Plan on 21.06.23 at office of Commissioner of Fisheries, Gandhinagar
- Attended stakeholders meeting organized by CMFRI, Veraval on 19.06.23

- Attended the MPEDA Stall in Global Fisheries Conference 2023 at Science City Ahmedabad during 21.11.23 & 22.11.23
- Participated in Azadi Ka Amrit Mahotsav Program Meetings and trainings were arranged for the Harbour Data Collectors on Data collection and related issues, Identification of Marine mammals and data collection, Guidelines of SC/ST training programs etc. and monitoring of activities of the HDCs were done.
- Arranged training for the Marine Observers on Identification of Marine mammals and turtles and their sighting and fishery interaction data collection.
- Disseminated about 1109 awareness messages through 13 Whatsapp groups formed at 10 harbours, each message reaching around 1931 fishery stakeholders



SCO attending (i) MPEDA stall in Global Fisheries Conference, (ii) CMFRI workshop, (iii) Azadi Ka Amrit Mahotsav Program Organized by INCOIS and CIFT and (iv) Seafood value addition training

EFFORTS FOR THE POPULARIZATION & IMPLEMENTATION OF TURTLE EXCLUDER DEVICE (TED) IN INDIA



To get India certified by the US Department of State, for exporting wild-caught shrimp to the USA efforts were taken for the Implementation of Turtle Excluder Device (TED) in the Mechanized Trawlers in India. MPEDA & NETFISH in association with ICAR-CIFT organized a preliminary consultative workshop in December 2023 with net manufacturers in India to identify interested, capable net manufacturers to fabricate and market TED in the country. It was followed by two stakeholder's workshops in Mumbai and Visakhapatnam during January 2024 to sensitize the boat owners and state fisheries officials from all maritime states on the implementation of TED. Further, a "Stakeholders Training Workshop on Turtle Excluder Device (TED) Construction and Field Demonstration", was organized in association with ICAR-CIFT, during 19 to 25 February 2024 at ICAR-CIFT head office, Kochi.

This one week long workshop consisted of training to the core team, training to the net menders, onboard trials and

summing-up meeting. The US-NOAA officials led the hands on training programs and field demonstrations during the workshop. A total of 99 participants including officials from State Fisheries Departments, MPEDA, CIFT, FSI, CIFNET, NETFISH, SEAI & Indian Coast Guard as well as gear technicians, net menders and boat owners from all the coastal states, have attended the workshop.

The first 3 days of the workshop was exclusively to provide hands on training on TED fabrication and installation as per NOAA specification, to the core team consisted of experts from CIFT, FSI, CIFNET and MPEDA-NETFISH. The next two days of the workshop was to provide hands-on training on TED fabrication and inspection methods mostly to the stakeholders consisted of gear technicians from net manufacturing companies and net menders from coastal states. The State Coordinators of MPEDA-NETFISH and officials from CIFT also attend the session. One day field demonstration of TED was conducted in two

commercial fishing vessels and CIFT research vessel in which boat owners & Nodal officers from state fisheries departments from all coastal states along with Officers from MPEDA, CIFT and NETFISH have participated. A final summing-up meeting was also arranged on the last day of the workshop, in which the

results obtained in the field demonstration were explained. The interaction with the US NOAA officials and stake holders clarified the apprehension on the catch loss and fuel consumption while using the TED. NOAA appreciated the design and performance of the TED in field level.



PMMSY PROJECT- MARINE MAMMAL STOCK ASSESSMENT IN INDIA (MMSAI)

The research project titled, 'Marine Mammal Stock Assessment in India (MMSAI)', was launched by Department of Fisheries (DoF), GOI under the PMMSY scheme. The Fishery Survey of India (FSI) is the nodal agency of the program, with MPEDA, CIFT and CMFRI as the partnering organizations. The ultimate aim of the project is enabling India to export seafood to the United States, by complying with the provisions of the Marine Mammal Protection Act (MMPA). The project was initiated in the year 2022 and will conclude by the year 2025.

During the financial year 2023-24, the bycatch surveys involved 16,106 fishers, across 9 coastal states, were completed in two phases by the Harbor Data Collectors (HDCs) from MPEDA-NETFISH, during August to November 2023 and from January to March 2024. A total of 8046 surveys were conducted in the phase 3 from 166 fishing harbors and landing centers and 8060 surveys were conducted during the phase 4 from

164 fishing harbors and landing centers. On analyzing the 3rd phase survey data, it is observed that 182 numbers of Marine mammals and 538 individuals of sea turtles were reported as caught incidentally in the fishing gears and dead along the Indian waters. In the Phase 4 survey, by-catch mortality of 195 numbers of Marine mammals and 554 numbers of sea turtles were reported from the Indian waters.

A total of 41 sightings and 123 fishery interactions of Marine mammals and Sea turtles were reported by the marine observers. Spinner dolphins are the mostly sighted mammal followed by humpback dolphins and bottle nose dolphins. One sighting of finless porpoise along the coastal boundary of Tamilnadu and one sighting of Irrwaddy dolphin along the coastal boundary of West Bengal were reported during the period.



Photos of marine marine mammals sightings provided by Marine Observers

SKILL DEVELOPMENT TRAINING PROGRAMMES CONDUCTED FOR FISHERMEN OF KAVARATTI, AGATTI, AMINI, KADMAT, KILTAN AND CHETLAT ISLANDS OF UT OF LAKSHADWEEP

In February 2024, NETFISH in association with CIFNET, Kochi conducted Skill Development Training Programmes in Lakshadweep islands viz. Kavaratti, Agatti, Amini, Kadmat, Kiltan and Chetlat in which 48 and 360 fishers participated in on-board and class room trainings respectively. The various subjects covered were:

- Long line and tuna handling onboard fishing vessels
- Navigation and marine communication equipments onboard fishing vessels
- Defect rectification and maintenance of boat engine



Glimpses of the skill development trainings conducted for Lakshadweep fishers

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

BALANCE SHEET AS AT 31-03-2024

LIABILITIES	Sch	As on 31.03.24	As on 31.03.23
A CAPITAL FUND			
Opening Balance		58,20,929.38	91,12,494.35
Add: Fund from MPEDA during the year		1,91,00,000.00	1,57,00,000.00
Add: Surplus/(Deficit) from Income & expenditure		48,84,800.84	-1,89,85,033.76
Add: Gain/(Loss) of SEAFOOD India stall		1,20,741.01	-6,531.21
		2,99,26,471.23	58,20,929.38
B MPEDA SC Welfare Project Fund		1,37,87,664.00	2,35,04,243.00
TOTAL (A+B)		4,37,14,135.23	2,93,25,172.38
ASSETS			
C PROPERTY PLANT & EQUIPMENT			
Written Down Value	1	4,35,557.17	4,92,539.37
Less: Depreciation		1,14,471.50	1,52,591.20
Closing WDV		3,21,085.67	3,39,948.17
D CURRENT ASSETS, LOANS AND ADVANCES			
Inventory	2	-	-
Cash & Bank Balance	3	4,78,52,563.00	3,30,51,035.29
Loans & Advances	4	44,400.00	18,42,622.56
Sundry Debtors	5	-	8,068.52
		4,78,96,963.00	3,49,01,726.37
E LESS: CURRENT LIABILITIES AND PROVISIONS			
Salary Payable	6	10,63,778.00	10,70,850.00
Expense Payable	7	33,14,132.44	30,46,784.00
Other current liabilities	7	1,26,003.00	11,62,702.45
Sundry Creditors	7	-	6,36,165.71
		45,03,913.44	59,16,502.16
F NET CURRENT ASSETS (D-E)		4,33,93,049.56	2,89,85,224.21
TOTAL (C+F)		4,37,14,135.23	2,93,25,172.38

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

APPROVED BY ANNUAL GENERAL BODY MEETING HELD ON 10-9-24


Place : KOCHI


Date : 27/07/2024


UDIN: 24228912BJZZIR7789

For ROSHAN THOMAS & Co.
CHARTERED ACCOUNTANTS
FRN - 0136115


(Chief Executive Officer)


(Treasurer)


(Director)


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

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

अनिल कुमार.पी/Anil Kumar. P
संयुक्त निदेशक / Joint Director
समुद्री उत्पाद निर्यात विकास प्राधिकरण
Marine Products Export Development Authority
(वाणिज्य एवं उद्योग मंत्रालय, भारत सरकार)

डॉ. एम. कार्थिकेयन/Dr. M. KARTHIKEYAN
निदेशक / Director
समुद्री उत्पाद निर्यात विकास प्राधिकरण
The Marine Products Export Development Authority
वाणिज्य एवं उद्योग मंत्रालय,
Ministry of Commerce & Industry



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

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2024

In Rs.

Particulars		2023-24	2022-23
INCOME			
Fund received for Extension Activities	8	4,28,45,868	2,75,43,478
Other Income	8A	6,120	2,71,304
TOTAL		4,28,51,988	2,78,14,782
EXPENDITURE			
Depreciation	1	1,14,472	1,52,591
Extension Activities	9	2,30,23,365	3,12,70,003
Employee Cost	10	1,36,51,692	1,38,81,897
Administrative Expenses	11	11,77,659	14,95,325
TOTAL		3,79,67,187	4,67,99,815
Excess of Income over Expenditure		48,84,801	-1,89,85,034

APPROVED BY ANNUAL GENERAL BODY MEETING HELD ON 10-9-24

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

Place : KOCHI

Date : 27/07/2024

UDIN: 24228912BJZZIR7789

(Chief Executive Officer)

(Treasurer)

(Director)

For ROSHAN THOMAS & Co.
CHARTERED ACCOUNTANTS
FRN - 0136115

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

(Auditor)

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

अनिल कुमार.पी./Anil Kumar. P
संयुक्त निदेशक / Joint Director
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7. **Accounts Assistant**
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TED Implementation Workshop & Onboard Trial

19-25 Feb. 2024, Kochi





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