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MPEDA NETFISH



Annual Report 2021-22



MPEDA-NETFISH

ANNUAL REPORT 2021-22



Network for Fish Quality Management and Sustainable Fishing (NETFISH)

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

Vallarpadam P.O., Kochi-682 504

www.netfishmpeda.org

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Network for Fish Quality Management and Sustainable Fishing (NETFISH)

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

Tel.: (+91) 484 2982205 | E-mail: netfish@mpeda.gov.in

Website: www.netfishmpeda.org

Compilation & Editing:

Dr. Joice V. Thomas

Dr. Afsal V. V.

Neethu N.J.

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ACRONYMS

CIFNET	-	Central Institute of Fisheries Nautical and Engineering Training
CIFT	-	Central Institute of Fisheries Technology
CSR	-	Corporate social responsibility
EIA	-	Export Inspection Agency
EU	-	European Union
FH	-	Fishing Harbour
FQM	-	Fish Quality Management
FRP	-	Fibre-reinforced plastic
FSI	-	Fishery Survey of India
FV	-	Fishing Vessel
GG	-	Gilled & Gutted
HACCP	-	Hazard Analysis Critical Control Points
HDC	-	Harbour Data Collector
ICGS	-	Indian Coast Guard Ships
IFB	-	Insulated Fish Boxes
ITM FIP	-	In-Transition to MSC Fishery improvement Programme
LC	-	Landing Centre
MFRA	-	Marine Fisheries Regulation Act
MOC&I	-	Ministry of Commerce & Industry
MPEDA	-	Marine Products Export Development Authority
MSC	-	Marine Stewardship Council
NFDB	-	National Fisheries Development Board
NGO	-	non-governmental organization
PC	-	Processing Centre
PMMSY	-	Pradhan Mantri Matsya Sampada Yojana
PPC	-	Pre-processing Centre
PPT	-	Paradip Port Trust
PVC	-	Polyvinyl chloride
RD	-	Regional Division
SC/ST	-	Scheduled Caste/Scheduled Tribe
SCSP	-	Schedules Caste Sub-Plan
SEAI	-	Seafood Exporters Association of India
SHG	-	Self Help Group
TED	-	Turtle Excluder Device
TTAADC	-	Tripura Tribal Areas Autonomous District Council
VPT	-	Visakhapatnam Port Trust
WTO	-	World Trade Organization
WWF	-	World Wildlife Fund

1. EXECUTIVE SUMMARY

Major Activities »»

-  During the financial year 2021-22, the NETFISH conducted 1838 nos. of extension programmes supporting 27203 fishery stakeholders.
-  A total of 361 nos. of fishing vessel based and 325 nos. of Harbour based programmes were conducted at selected fishing harbours and landing centers on hygienic fish handling, reduction of post-harvest loss and sustainable fishing.
-  Awareness on 'eradication of single use plastics' was conducted among different stakeholders at fishing harbours and fishing vessels.
-  About 645 nos. of awareness classes for fishers were organized, in addition, through the Harbour Data Collectors at their respective harbours.
-  Conducted 140 nos. of stakeholders' awareness meetings.
-  In Kerala, 18 Pre-processing programmes were conducted for the PPC workers on hygiene and sanitation.
-  To improve the production of quality dryfish augmenting export market, 77 dry fish training programmes were conducted.
-  Nine online workshops on 'The Refinement of Marine Fisheries Management in India' were conducted in 9 coastal states with regard to amendment & proper implementation of MFR Acts.
-  Under the MPEDA SC/ST Welfare 80 insulated fish boxes were provided to SC boat owners in West Bengal.
-  A total amount of Rs. 92.38 lakh was generated as fund from external sources for conducting various training programmes.
-  Received Rs. 3.7 lakhs from various exporters and conducted 37 nos. of trainings on 'hygiene and sanitation' to the workers and supervisors of their seafood processing units.
-  Received Rs. 22.85 lakh from NFDB and conducted 87 nos. of capacity building programmes for SC fishers in West Bengal, Odisha & Karnataka.
-  Received Rs. 7.20 lakh from NFDB towards sharing the weekly fish price information from 35 fish landing sites, from October 2021 to October 2022.
-  Received Rs. 10 lakhs from Paradeep Port trust with which 56 nos. of capacity building programmes were conducted and aid materials were supplied to the fishers in Odisha.
-  Six 'Hands-on training programmes on Value Addition of Cephalopods' were organized at 6 processing units in West Bengal and could generate Rs. 3.06 lakh as net income for NETFISH
-  Department of Fisheries, Lakshadweep, has passed Rs. 25 lakh to NETFISH for conducting trainings on 'Onboard Handling of Tuna and Other High Value Fishes'. Eleven trainings were conducted during the year benefitting 261 fishers of Agatti, Amini, Kavaratti and Kadmat islands.
-  Carried out surveys among dry fish producers across 9 major landing sites in Karnataka as part of the collaboration with Azim Premji Foundation.



- Five awareness classes on Sea Safety & Navigation were conducted jointly with CIFNET, in Kerala.
- Associated with CIFNET Kochi for organizing a '6 days Tuna long line training programme' for 24 fishermen from Maharashtra.
- About 7.12 lakh tonnes of marine landings and 3.8 lakh nos. of boat arrivals were recorded by the Harbour Data Collectors from nearly 100 fish landing sites in the country.
- Observed Swacchta Pakhwada during 1-15 Nov 2021 by organizing a nationwide plastic eradication programme involving stakeholders and officials at major fishing harbours and landing centres.
- 'Azadi Ka Amrit Mahotsav' was observed nationwide on 26th Sep 2021 on the theme "Responsible Fishing for Sustainable Future".
- Disseminated various information to about 8000 fishery stakeholders on a daily basis through 129 whatsapp groups formed in harbours/LCs
- Many of the fishing vessels in Maharashtra, Gujarat and Andhra Pradesh have started bringing back plastic wastes generated during each fishing trip, for safe disposal at land.
- Dryfish quality has improved by practicing hygienic methods such as usage of plastic baskets, protective net covers, mats or plastic sheets for keeping fish for drying and mechanized solar dryers.
- Fishers use plastic sheets and plastic crates to keep ice and fish in order to avoid contamination.
- Pre-cooling/chill killing is being observed in some of the fishing vessels by which the post-harvest loss has reduced and the catch is getting better price.
- Fishers use sufficient quantity of ice for fish preservation in order to reduce post-harvest loss.
- Implemented vessel log sheet at Mangrol FH and the HDC is getting 10-15 log sheets everyday from fishing vessels.
- The Cochin Shipyard Ltd. has sanctioned Rs. 6.5 lakhs from their CSR Fund and installed a water Kiosk at Thoppumpady fishing harbour jointly with Cochin Port Trust.

Major Outcomes »»

- Department of Fisheries, Karnataka has initiated monitoring raw material temperature at Gangolli harbor to ensure proper maintenance of cold chain.
- A fisher in Chapora, Goa fabricated square mesh cod end of 25 mm mesh size out of diamond mesh webbing and use it in his trawl net.
- In Thoppumpady FH, Kerala, 12 boat owners have procured square mesh cod ends by availing subsidy from Dept. of Fisheries with the support of NETFISH.
- One of the trawler owners in Balaramgadi, Odisha has purchased 2 square mesh cod ends for his trawl net.
- Marine mammals and sea turtles caught incidentally during fishing are released back to the sea in live condition by the fishers.
- Tuna fishers in Pudimadaka started practicing pre-cooling and fill the empty guts & gills with ice before storage in fish hold, by which they are able to land yellow fin tuna of about 15 kg with GG grade quality.
- About 200 bottom trawlers in Visakhapatnam fishing harbour have converted to hook and line fishing, a selective fishing method

2. NETFISH PROFILE

The Network for Fish Quality Management and Sustainable Fishing (NETFISH) was formed as a society under the MPEDA in 2006, to concentrate deeply on capacity building among fishery stakeholders in the capture fisheries sector. The Society was registered on 1st August 2006 at Ernakulam under the Travancore-Cochin Literary, Scientific and Charitable Societies Registration Act, 1955. Being the extension arm of MPEDA, NETFISH imparts training to fishers at the grassroots level on various export market demands such as traceability, sustainability/conservation, quality loss etc.

NETFISH Head Office is located at Vallarpadam, Kochi. The Chairman, MPEDA is the President of NETFISH and the Chief Executive Officer is the officer in-charge. NETFISH has its State Coordinators in all the maritime states of India to execute the awareness training programmes and has Research Assistants, Accountant and Accounts Assistant at Headquarters. In addition, Harbour Data Collectors are engaged at around 100 fishing Harbours/landing centres to collect real-time data on fishing vessel arrivals, boat wise catch details and fish price information. Executive Committee (EC) is the Managing Committee of the society which consists of members including Chairman MPEDA, chief MPEDA officials, Director EP&MP of MOC&I, Directors of CIFT & CIFNET, President SEAI, Directors/Commissioners of State Fisheries Department, representative from NFDB and representatives from NGOs.

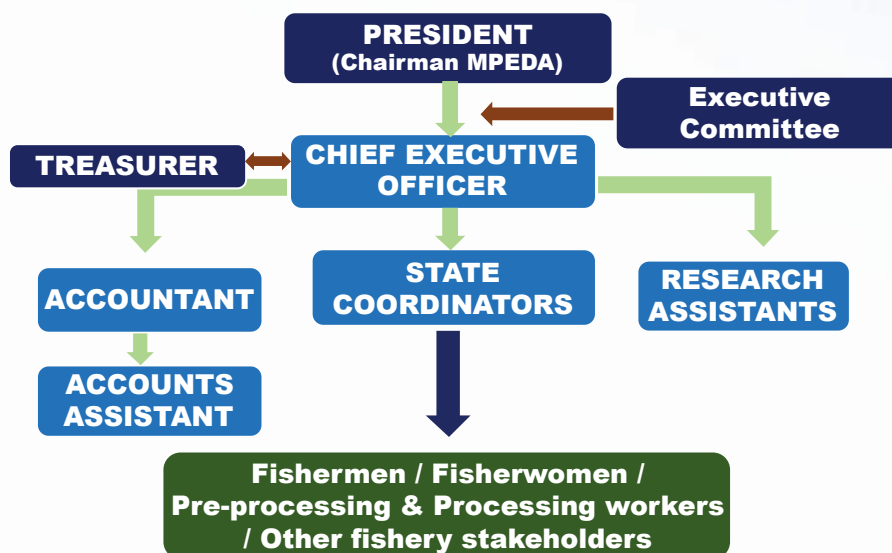
NETFISH has completed 15 years of Fisheries extension in Capture Fisheries. More than 31000 extension programmes were conducted over the years, supporting nearly 9 lakh fishery stakeholders. Capacity building programmes

were carried out among fisherfolk to improve the quality of the fish and for propagating conservation and sustainable fishing. Fishers were trained to adopt better fish handling practices, hygiene and sanitation and sustainable fishing practices to augment good quality fish for export and to ensure future fish resources. Export promotional activities were conducted by NETFISH through special campaigns among fishers to avoid the trade barrier in seafood export. NETFISH will continue as a strong extension agency working among the fishermen community and fishery stakeholders in order to improve their livelihood and to increase the fish export from the country.

Extension approach »»

- Impart training to fishers at the grassroots level on various export market demands pertaining to traceability, sustainability/conservation, post-harvest quality loss etc.
- Conducts grass root level training programmes in fishing vessels, fishing harbours, landing centres, pre-processing and processing factories and Dry fish sector in all maritime states of India.
- Collaborate with State Fisheries Departments, Fisheries Organizations and various NGOs working in the sector for conducting capacity building activities among the fishers and for the development of infrastructure facilities at fish handling points.
- Collects real-time daily data on boat arrivals and fish landings from every boat landing at the major fishing harbours/LCs across all the 9 maritime states of India.
- Facilitate skill development of fishers for improving their livelihood.

ORGANOGRAM



3. PROGRAMME TARGET FOR THE YEAR 2021-22

Table 1: State/Region wise programme target for the year 2021-22

State/Region	FV	Harbour	PPC/PC	Dryfish	Special Pgm.	Total
West Bengal	30	30	10	10	1	81
Odisha	30	30	10	10	1	81
Andhra Pradesh North	30	30	10	10	1	81
Andhra Pradesh South	30	30	10	10	1	81
Tamilnadu South	30	30	10	10	1	81
Kerala South	30	30	10	10	1	81
Kerala North	30	30	10	10	1	81
Karnataka	30	30	10	10	1	81
Maharashtra South & Goa	30	30	10	10	1	81
Maharashtra North	15	30	-	10	1	56
Gujarat	30	30	10	10	1	81
Total	315	330	100	110	11	866

The primary target was to educate fishers on chilling the catch before storage and other good handling practices onboard fishing vessels to reduce the post-harvest loss, to educate fish

handling workers at harbours/Landing centres on hygienic handling practices and to promote conservation techniques such as using square mesh cod ends, TED etc.

4. EXTENSION ACTIVITIES DURING 2021-22

A total of 1838 nos. of extension activities were conducted during 2021-22 benefitting around 27203 fishery stakeholders. Of the 866 target programmes, about 836 programmes were accomplished. Other than the target

programmes, 1002 programmes including workshops and meetings were organized across the maritime states, addressing the various issues in the sector with regard to quality & conservation.

Fig 1.State/Region-wise representation of Target programmes conducted during 2021-22

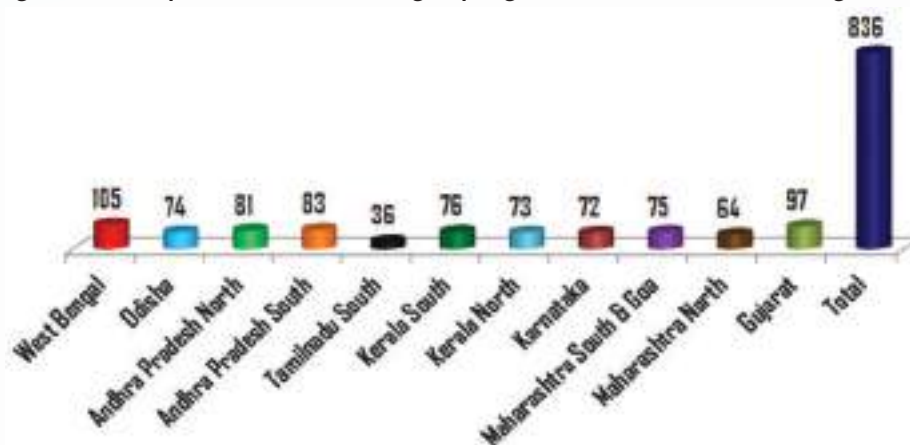


Table 2: State wise details of all the Extension activities conducted during 2021-22

Type of Programme	WB	OD	APN	APS	TNS	KLS	KLN	KA	MHS	MHN	GJ	TOTAL	BENF.
Fishing Vessel based programmes	42	38	35	40	24	33	30	30	32	18	39	361	3812
Harbour based programmes	40	24	32	32	7	31	30	30	31	33	35	325	5320
Pre-processing centre programmes	0		0			8	10	0				18	372
Dry fish Development programmes	11		11	10		2		11	10	12	10	77	1241
Swacchta Pakhwada	1	2	1	1	1	1	1	1	1	1	1	12	636
Other Special programmes					3						3	6	139
Stakeholder Meetings by SCOs	40	6	6	2	9	21		2	3	27	24	140	2250
Workshop on Refinement of Marine Fisheries Management (Online)	1	1	1		1		1	2	1		1	9	310
MPEDA funded SC/ST welfare programmes	2					1						3	55
Processing Unit Training - 1 day paid pgm.	11	10	2		1	1	2		1		9	37	1157
Processing Unit Training- Cephalopod Value Addition training in West Bengal	6											6	147
NFDB SC fisher training Programmes	32	35						20				87	4350
Paradeep Port Trust funded programmes in Odisha		56										56	1050
AKAM celebration-Exporter sponsored	1	1	1		1	1		2		1	1	9	1892
Azim Premji Foundation sponsored programmes in Karnataka								1				1	9
Institute of Engineers India Ltd. sponsored programmes in West Bengal	1											1	25
Lakshadweep Tuna Training					7		4					11	261



Pre-Visit to Lakshadweep					1							1	0
Plastic eradication programmes	1	0	4	1		2		2	1	1	1	13	200
WWF/MSC sponsored programmes						1						1	9
Collaborative programmes with CIFNET						4	1			1		6	283
Collaborative programmes with Department of Fisheries						6	5					11	345
Collaborative programmes with CUSAT							1					1	40
Participation in Pre-Vibrant Gujarat Summit											1	1	200
Awareness Programmes/Meetings by HDCs			5	14	26	129	158	10	16	108	179	645	3100
	189	173	98	100	81	241	243	111	96	202	304	1838	27203

4.1 NETFISH FUNDED PROGRAMMES

4.1.1 FISHING VESSEL BASED PROGRAMMES »»

Regionwise No. of Fishing Vessel based programmes



SL No	State	Harbour/LC	Pgm	Benf
1	West Bengal	Deshapran	3	44
2		Sankarpur	21	283
3		Namkhana	9	140
4		Kakdwip	5	84
5		Freserganj	4	87
6	Odisha	Paradeep	18	180
7		Dhamara	10	100
8		Balaramgadi	10	100

9	Andhra Pradesh (N)	Visakhapatnam	14	141
10		Kakinada	11	122
11		Pudimadaka	10	105
12	Andhra Pradesh (S)	Nizampatnam	35	361
13		Machilipatnam	5	38
14	Tamilnadu (S)	Tharuvaikulam	20	220
15		Thengaipattinam	4	45
16	Kerala (S)	Thoppumpady	11	106
17		Thottappally	2	20
18		Kayamkulam	10	74
19	Kerala (N)	Sakthikulangara	10	103
20		Munambam	14	90
21		Munakkakadavu	10	56
22	Karnataka	Ponnani	6	35
23		Malpe	17	268
24		Honnarav	9	135
25	Maharashtra (S)	Amdalli	4	62
26		Harnai	10	67
27		Devgad	10	72
28	Goa	Chapora	10	60
29		Malim	2	27
30	Maharashtra (N)	Arnala	6	65
31		Alibaug	7	55
32		Uttan	5	51
33	Gujarat	Veraval	18	192
34		Mangrol	7	76
35		Porbandar	14	148

Fishing vessel based programmes were conducted to improve the fish handling practices, hygiene and sustainable fishing practices, so that good quality fish will be augmented facilitating more export and ensure future fish resource availability for export. A total of 361 fishing vessel based programmes were conducted during the year covering around 35 fishing harbours/landing centres across the country and benefitting 3812 stakeholders (see Table).



4.1.2 HARBOUR BASED PROGRAMMES »



Sl. No.	State	Harbour/LC	Pgm	Benf
1	West Bengal	Deshapran FH	23	245
2		Freserganj FH	11	156
3		Sankarpur FH	6	71

4	Odisha	Paradeep	10	300
5		Dhamara	6	180
6		Balaramgadi	8	240
7	Andhra Pradesh (N)	Visakhapatnam	11	263
8		Kakinada	11	247
9		Pudimadaka	10	230
10	Andhra Pradesh (S)	Nizampatnam	6	97
11		Vadarevu	23	419
12		Machilipatnam	3	35
13	Tamilnadu (S)	Tharuvaikulam	6	113
14		Colachel	1	12
15	Kerala (S)	Thoppumpady	10	188
16		Kayamkulam	10	170
17		Sakthikulangara	11	202
18	Kerala (N)	Munambam	10	119
19		Chettuva	15	201
20		Ponnani	5	64



21	Karnataka	Malpe	15	241
22		Honnavar	9	164
23		Amdalli	6	104
24	Maharashtra (S)	Harnai	10	112
25		Devgad	11	106
26	Goa	Chapora	10	71
27	Maharashtra (N)	Arnala	10	140
28		Alibaug	10	126
29		Uttan	13	201
30	Gujarat	Veraval	18	192
31		Mangrol	7	141
32		Porbandar	10	170

Fishing harbour based programmes were carried out for Fishers & Fish handling workers to inculcate good handling practices in order to keep the quality of the fish, reduce post-harvest loss and to impart responsible fishing practices for conservation of the fish resources. A total of 325 numbers of harbour based programmes were conducted during the year covering around 32 fishing harbours/landing centres across the country and benefitting 5320 stakeholders (Table).



4.1.3 PRE-PROCESSING CENTRE TRAINING PROGRAMME »»

Pre-processing workers were educated on good handling practices, sanitation and personal hygiene to maintain the quality at par with the guidelines of importing countries. A total of 18 programmes were conducted in Kerala during the year by which 372 PPC workers were benefitted.

SL No.	Name of the PPC	Date	Benf.
Kerala South			
1	Baby Marine, Panavally	23-12-21	34
2	Baby Marine, Panavally	11-02-22	34
3	Jasmine Fisheries, Eramallur	18-02-22	20

4	Jasmine Fisheries, Eramallur	18-02-22	22
5	Madhu's Shed, Aroor	23-12-21	17
6	Madhu's Shed, Aroor	11-02-22	14
7	Suttoor Shed, Chandhiroor	21-12-21	18
8	Suttoor Shed, Chandhiroor	21-12-21	23
Kerala North			
1	AMS PPC, Kuzhuppilly	10-01-22	7
2	APD PPC, Narakkal	08-02-22	10
3	Aroma PPC Shed No1, Munambam	29-09-21	27
4	Aroma PPC Shed No1, Munambam	29-09-21	28
5	Arsha PPC, Edavanakkad	09-11-21	27

6	Ganga Marine PPC, Kuzhuppilly	10-01-22	13
7	Grace marine PPC, Edavanakkad	09-11-21	29
8	OKP PPC, Munambam	20-12-21	18
9	PKP PPC, Maliankara	20-12-21	18
10	Sea Food Agencies, Edavanakkad	08-02-22	13



4.1.4 DRY FISH DEVELOPMENT PROGRAMME »»

Region-wise No: of Dryfish Programmes



Dryfish development programme were conducted to improve the quality of the dryfish production towards improving dryfish export from the country. A total of 77 programmes were arranged for the dryfish workers during the year which has benefitted around 1241 dryfish workers. The major dryfish area covered were Umargam in Gujarat, Arnala, Alibag, Uttan, Devgad & Harne in Maharashtra, Malpe, Honnavar & Amdalli in Karnataka, Andhakaranazhy in Kerala, Visakhapatnam,

Kakinada and Vodarevu in Andhra Pradesh and South 24 Parganas & Purba Medinipur in West Bengal.



4.1.5 SPECIAL PROGRAMMES »»

4.1.5.1 Swacchta Pakhwada 2021 »»

As part of the observance of Swacchta Pakhwada by the Department of Commerce and its Organisations during 1st to 15th November 2021, a nationwide Ocean Clean-up programme was arranged by NETFISH, involving all stakeholders and officials associated with marine fisheries sector. With the aim to reduce the plastic pollution in sea, stakeholder's

meetings were conducted during the first week of November 2021 at 11 fishing harbours/landing centres selected across the maritime states, to sensitize them about the Swacchta Pakhwada event, eradication of single use plastic and to gain their support for executing the plastic eradication programme. Thereafter, the fishers started collecting plastic wastes generated during fishing and bring it to the harbour. Arrangements were made with local bodies/

agencies for the collection of plastic from the harbour for recycling and accordingly the wastes brought by the fishers were removed from the harbour. Harbour and coastal clean-up events were also arranged as part of the celebration and mass awareness was generated among the fishermen about the harm caused by single use plastic to our ecosystem and resources and how to eradicate single use plastics. As a result of the programme, many of the fishers have

started avoiding dumping plastic wastes into the sea. Instead, they are collecting the food packets, broken net pieces, plastic wastes got in fishing nets etc. in storage bags/containers and bringing it to shore for proper disposal, thus reducing pollution of ocean with plastic wastes. The following activities were carried out in each state to commemorate the Swacchta Pakhwada celebration.

State-wise activities for Swacchta Pakhwada



Mangrol, Gujarat - 2nd & 11th Nov. 2021 - Awareness meeting & Collection of plastic wastes from fishing vessels & harbour



Arnala, Maharashtra - 2nd & 12th Nov. 2021- Stakeholder awareness meeting & Collection of plastic wastes from fishing vessels



Deshapran, West Bengal - 3rd & 12th Nov. 2021 - Awareness class & Collection of plastic wastes from fishing vessels and harbour premises



Chilka, Odisha - 9th & 11th Nov. 2021 Awareness class for fishers & Landing centre and coastal clean-up drive



Harnai, Maharashtra – 12th & 15th Nov. 2021 - Stakeholder awareness meeting & Collection of plastic wastes from fishing vessels



Nizampatnam, Andhra Pradesh – 13th & 15th Nov. 2021- Awareness class & Collection of plastic wastes from harbour premises



Visakhapatnam, Andhra Pradesh – 2nd, 11th & 15th Nov. 2021 - Stakeholder awareness meeting, Mass communication & Harbour clean-up



Tharuvaikulam, Tamil Nadu – 11th Nov. 2021 Awareness class & Landing centre & beach clean-up



Amdalli, Karnataka – 9th Nov. 2021 - Awareness meeting & Fishing vessel and Harbour clean-up



Thoppumpady, Kerala – 3rd & 15th Nov. 2021 -Awareness meeting & Collection of plastic wastes from fishing vessels



Munambam, Kerala – 15th Nov. 2021 -Awareness meeting, Collection of Plastic wastes from fishing vessels & Street play on plastic pollution by college students



4.1.5.2 On-Site Determination of Histamine in Tuna »»

Sl. No.	Date	Location	No: of Beneficiaries
1	16-12-21	Tharuvaikulam FLC	35
2	17-12-21	Thengapattinam FLC	40

Demonstration of rapid estimation method for determination of histamine content in fishes were organized in Tamilnadu with the aim to generate awareness among deep sea fishermen of Tharuvaikulam and Thengapattinam on the importance of keeping the histamine content low in fishes like Tuna for fetching better price, the method to determine histamine and how the increase in histamine content would affect human health. The test was performed using the test kit supplied by M/s Perkin Elmer, which

consisted of test strips (HISTASTRIPS) and strip reader. The fishermen were also made aware about proper icing and storage, and hygienic handling of tuna for keeping the histamine content low. The fishermen could understand the easiness in determining histamine using the test kit and they showed interest in using it if NETFISH-MPEDA set up an on-site Fish Testing facility at the harbour. The Dept. of Fisheries, Tamilnadu assured all support for the effort.



Demonstration of Histamine Test Kit at Tharuvaikulam and Thengapattinam

4.1.5.3 Training on “Deep Sea Fishing, Sea Safety, Navigation and Communication »»

To impart training on ‘Deep sea fishing & Sea Safety’ to the deep sea fishermen and expose them to novel deep sea fishing equipment and instruments for navigation and sea safety a training was arranged on 30th July 2021 at Chinnathurai, Tamilnadu. Around 25 people including Deep sea fishers of Thoothoor, Chinnathurai, Poothurai, Vallavillai & Eraviputhenthurai were benefitted by the training. Dr. Sunil Muhammed Rtd. Scientist CMFRI & Member of Sustainable Seafood Network of India (SSNI), Dr. Joshi & Dr. Shaji

from CIFNET Kochi, Dr. Vinoth Ravindran, SCO NETFISH and Mr. Ginoy from Keind Marine, Cochin handled the different sessions of the training. The participants were enlightened on deep sea tuna resources and its identification, resource management and sustainable utilization, issues pertaining to international borders, marine communication, Onboard Hygienic handling of Tuna, international demand of Shashmi grade tuna, tuna processing preservation, Tuna meat quality check and grading, Fisher Friend Mobile Application (FFMA) etc.



4.1.5.4 Exposure Visit for Fishers to Sea Cage & Sea Weed Culture Sites »»

Sl. No.	Date	No. of Programmes	Location	No. of Beneficiaries
1	08/03/22	1	CMFRI, Veraval	14
2	11/03/22	1	CMFRI, Veraval	12
3	16/03/22	1	CMFRI, Veraval	13

With the aim to avoid juvenile fishing and to divert the fishers to allied activities, an initiative was taken by NETFISH in Gujarat to aware the fishers on the potential of sea cage culture and sea weed culture as alternative livelihood opportunities. A few exposure visits were

arranged for the boat owners, fish suppliers, fishers etc. to the CMFRI cage culture and sea weed culture sites in Veraval in the month of March 2022. The fishers could learn about the preparation of sea cage, site selection, cage farming and production from the presentations

given by the experts as well as by seeing the on-site practices. The fishers expressed interest in attending intensive training programmes

to know more about sea cage and sea weed culture for their better future and diversification of their business.



4.1.6 WORKSHOPS & MEETINGS »»

4.1.6.1 Workshop on Refinement of Marine Fisheries Management »»

Sl. No.	Date	Time	State	No. of Participants
1	22.7.21	10.00 - 1.00	Maharashtra	22
2	22.7.21	2.00 - 5.00	Gujarat	16
3	27.7.21	10.00 - 1.00	Kerala	34
4	27.7.21	2.00 - 5.00	Karnataka	17
5	30.7.21	10.00-1.00	Goa	25
6	26.10.21	10.30 - 1.00	Tamilnadu	56
7	27.10.21	10.30 - 1.00	Andhra Pradesh	56
8	28.10.21	10.30 - 1.00	Odisha	52
9	29.10.21	10.30 - 1.00	West Bengal	32

Online workshops entitled "The Refinement of Marine Fisheries Management of India" was organized in all the 9 maritime states to sensitize the issues such as juvenile fishing, IUU, traceability, vessel monitoring, harbour

development and MFRA regulations among the major players of the sector and to formulate methodologies for the implementation of MFRA regulations and amending the existing MFRA of the state for better management. Senior



Officials from State Fisheries Departments, Scientists from CMFRI, CIFT, CCARI, CIFNET & Universities and Officials from Marine Enforcement, Coast Guard & SEAI had attended the workshops. Director MPEDA presided over the workshops. MPEDA officials and NETFISH State Coordinators were also present. The CE NETFISH gave a presentation on the present status of fisheries and its management in the state and then had the interactive session discussing the major issues. The following recommendations were put forward in the workshop.

1. Impose a uniform fisheries law across the coastal states
2. Amend the existing MFR Acts by incorporating strict measures to protect fishery resources and to ensure safety of fisher community.
3. Have separate enforcement wing to implement the MFR Acts
4. Regulate registration of boat building yards, size and type of fishing gears, engine horse power etc.
5. Regulate fish meal plants at central level to reduce juvenile fishing.
6. Juvenile fishing to be curbed by imposing penalty not only for the fishing boats but also for the vendors and buyers.
7. Ensure implementation of square mesh cod ends and TEDs in trawls.
8. Prevent unscientific fishing practices such as light fishing, pair trawling, etc.
9. Implement Minimum Legal Size (MLS) in all maritime states
10. Develop harbours & landing centres with sufficient infrastructure facilities for better handling of fish and ice
11. Form harbour management societies/ committee
12. Implement Vessel Monitoring System
13. Fishermen to be continuously made aware on quality & sustainability aspects
14. Have a comprehensive data collection system
15. State Fisheries Departments have to take initiative to train and certify skunks, jointly with CIFNET & NETFISH.
16. Empower fishers for deep sea fishing by conducting workshops/ training on long lining.
17. Multi-gear fishing vessels may be considered to avoid competition between different sectors
18. Skill development of the work force in marine fishing sector through well-structured training programmes





4.1.6.2 Meetings »»

About 58 nos. of physical meetings were conducted with various stakeholders at fishing harbour or landing centres or fisher villages with the aim to solve several issues with regard to quality management and conservation. In addition, 82 meetings were conducted through online mode to generate proper awareness

among fishery stakeholders as well as to give training to Harbour Data Collectors.

Important Stakeholder Meetings

1. On 18th June 2021 State Coordinator along with Dy. Director, MPEDA had attended a meeting organized by Digha Fisherman and Fish Traders Associations (DFFTA) at Digha



- Mohana, Purba Medinipur with the major exporters, State Fisheries Officials, Harbour officers, boat owners, traders etc. in Purba Medinipur, under the chairmanship of Shri Akhil Giri, Hon'ble MIC, Dept. of Fisheries, Govt. of West Bengal to discuss about issues related to export of sea caught fish and shrimp to China. COVID-19 impacts on exports of seafood products, setting up of common shrimp pre-processing centre at Digha mohana, diversification of seafood products, etc. were also discussed.
2. On 11th August '21 State Coordinator, West Bengal along with SCO, Gujarat and HDC, Deshapran FH & Shoula LC had a meeting at Junput, Purba Medinipur with dry fish exporters, fish meal exporters, dry fish fishers and had discussion on abuse of harmful chemicals in dry fish, hygienic handling of dry fish meant for export, market possibilities for dry fish other than Bangladesh, sourcing of raw material and its quality, testing of presence of Formalin in the dry fish, SC/ST project proposal for setting up solar based mechanical dryers etc.
 3. On 31st August'21 State Coordinator along with DD MPEDA, RD Kolkata had a meeting with Secretary, Kakdwip Fisherman Association, Boat owners, HDCs regarding present status of capture fisheries, export issues, SC/ST project proposal on insulated fish box, setting up solar based mechanical dryers etc.
 4. On 1st July'21 State Coordinator along with DD MPEDA, RD Kolkata and HDC, Deshapran FH had a meeting with Special Officer, Deshapran FH and other harbor officials regarding setting up processing establishment, development and upgradation of fishing harbour and registration of fishing harbour with EIA. Special Officer assured to take necessary steps for approval of the FH as well as for processing unit.
 5. On 2nd July'21 State Coordinator along with DD MPEDA, RD Kolkata had site verification and stakeholder meeting for setting up of mechanical solar dryer unit under SC/ST project and value addition of dry fish products.
 6. On 12th October'21 SCO West Bengal had conducted a meeting with President & Secretary of Tajpur- Jaldah Matsya Khuti, boat owners and fishers at Tajpur-Jaldah Khuti, Purba Medinipur regarding preparedness of WTO visit, VC with WTO persons, SC training programme, SC/ST financial assistance for fishers etc.
 7. A team comprising DD MPEDA, Mangalore, SCO, NETFISH, Karnataka and HDC, NETFISH, Karwar met JD Fisheries for necessary arrangements in connection with DG WTO visit to Karnataka. Mudga LC & Keni LC was visited and had discussion with the stakeholders and officials.
 8. On 12th October'21 NETFISH, Kolkata SCO had a meeting with Shri Mahadeb Maity, Sub Inspector, Marine Police Station, Sankarpur FH and had a discussion on NETFISH and its activities, various issues related to the marine fisheries, different regulation and act of MFRA, West Bengal, sea safety & navigation issues with fishers different conservation aspects. SCO also discussed on online workshop on refinement of MFRA, West Bengal.
 9. As per the request received from TTAADC, Tripura the State Coordinator and Dy. Director, MPEDA, RD, Kolkata visited Agartala, Tripura from 7th to 10th December 2021 and propagated the MPEDA-NETFISH financial assistance schemes for solar dryer and insulated fish boxes for SC/ST fishers. Conducted a series of meetings with Secretary of Fisheries, Govt. of Tripura, State Fisheries officials, TTAADC officials and beneficiaries. Also visited various sites for setting up solar dryer. The State

Fisheries officials assured to come up with fruitful proposal for development of fisheries in Tripura.

10. On 4th December 2021 the SCO along with DD MPEDA RD Veraval had a meeting with Shri.Nalin Upadhyay, IAS, Secretary of fisheries, Dept. of Fisheries, Govt. of Gujarat at Gandhinagar and briefed about the activities of MPEDA and NETFISH in Gujarat. They also discussed about State specific action plan, implementation of TED etc.
11. The SCO held a meeting with President and members of Porbandar Boat Association on 15th December 2021 at Porbandar to discuss on plastic pollution in sea, marine mammal & sea turtle conservation, juvenile fishing etc. SCO explained on the need for preparing awareness posters on plastic pollution and to paste it in the harbor and providing plastic collection bags to boats for bringing plastic/solid wastes to the land for proper disposal. Porbandar Boat association agreed to support in preparing the posters and also showed interest in cleaning-up the entire harbor to make it plastic free.



12. On 30th December 2021 a meeting was conducted jointly by SCO Maharashtra North & Gujarat with the dryfish producers

at Dahanu landing center, Maharashtra regarding issues in dryfish marketing. SCO Maharashtra North explained about preparation of good quality dry fish, value addition of dry fish, packaging, better market access and how to fetch good prices. SCO Gujarat explained on the possibility for retail outlets for dry fish products in metropolitan cities of Gujarat and Maharashtra and adoption of solar dryers for fetching good market and prices. The Dry fishers expressed their interest in preparing good quality dry fish by installing solar dryers, attractive packaging and retail outlet.

13. At Jafrabad fishing harbour, a meeting with boat owners and President of Boat Association was held on 6th January 2022 to make them aware about NETFISH activity, fish catch data collection by HDC, avoid juvenile fishing and minimize the use of plastics etc.



14. On 23rd February 2022 a stakeholder meeting was arranged at Bhiday Kharwa Samaj and Koli Samaj fishermen association with the Boat owners and President of Boat association to make them aware about NETFISH activity, Juvenile fishing, plastic waste management, CIFNET training for long lining, marine mammal conservation etc.



4.2 MPEDA FUNDED SC/ST WELFARE PROGRAMMES

A series of stakeholder meetings were conducted at Mayagolini LC, Beguakhali, Madhyapara, Dash mile, South 24 Parganas and Haripur, Baguran Jalpai, Purba Medinipur on MPEDA-NETFISH financial assistance schemes for SC/ST fishers for the Insulated Fish Boxes & Mechanical Solar Dryers. As part of this scheme, 80 insulated fish boxes were provided to SC boat owners of mechanized fishing

boats in West Bengal to use it on-board to preserve the catch. As per the requirement of the beneficiaries insulated fish boxes of 70 lit., 100 lit and 310 lit. capacities were distributed in Tajpur Jaldah, Purba Medinipur & Kakdwip, South 24 Parganas. As per the MPEDA scheme the IFBs were provided with 75% assistance from MPEDA and collecting 25% of the cost as beneficiary share.



Last year, mechanical solar dryers were provided to SC/ST fishers in Vaikom region and the beneficiaries were given a hands on training on hygienic production of dryfish using the dryer.

4.3 EXTERNAL FUNDED PROGRAMMES

Table: Details of External Funds Received for Capacity Building during 2021-22

SL No.	Type of Programme	Funded by	Fund Received (₹)
1	Processing Unit Training	Exporters	370000
2	Cephalopod Value Addition	Exporters	306000
3	Capacity Building Training programme for SC fishers	NFDB	2284500
4	Capacity Building Training programme for fishers in Odisha	Paradeep Port Trust	900000
5	Dryfish survey in Karnataka	Azim Premji Foundation	45000
6	Awareness programme on FQM, Conservation and Dryfish	Institute of Engineers (India) Rural Development Forum, Kolkata	14500
7	Training on Tuna Longlining & On-board Handling	Lakshadweep Fisheries Administration	2498400

4.3.1 Processing Unit Training programme »»



The supervisors, technologist, processing workers, plant managers and production managers of Seafood companies are given awareness cum hands on training on HACCP, hygiene and sanitation practices, traceability system, processing technology & COVID-19 guidelines. This year, 37 such programmes were conducted which were attended by 1157 trainees. Each programme was charged a training fee of Rs. 10000/- and thereby NETFISH could generate Rs. 3.7 lakh rupees as external fund.





Sl. No.	Name of the Processing Unit	Programme Date	No: of Trainees
1	M M C Exports, Salt Lake, Kolkata	7.09.21	16
2	N C Das & Co., Haroa, North 24 Parganas	13.09.21	37
3	Coreline Exports, Chakgaria, Kolkata	27.09.21	30
4	Essex Marine Pvt. Ltd., Sankarpur, Purba Medinipur	27.10.21	28
5	Calcutta Sea Food Pvt. Ltd, Kolkata	13.11.21	36
6	Bay Seafood Pvt. Ltd., Kolkata	27.11.21	35
7	BASU International, Unit-V, Digha, Purba Medinipur	11.12.21	21
8	Pashupati Aquatics, Henria, Purba Medinipur	12.12.21	39
9	BASU International, Unit-I, Diamond Harbour, South 24 Parganas	21.01.22	41
10	Seafood Pvt. Ltd, Sankarpur, Purba Medinipur	23.01.22	22
11	S D Heavy Seafood Pvt. Ltd, Chakgaria, Kolkata	28.01.22	29
12	Hari Marine Export Pvt Ltd., Kuruda,Balasore	23.07.21	37
13	S.K. Exports Pvt Ltd., Bhubaneswar	29.07.21	30
14	Balasore Marine Export Pvt Ltd., Balasore	04.08.21	20
15	Falcon Marine Export Pvt Ltd., Paradeep	19.08.21	33
16	Archid Marine ,Balasore, Baliapala,Balasore	11.10.21	40
17	Aqua Marine Ltd,Balasore, Chandipur,Balasore	12.10.21	40
18	Falcon Marine Export Ltd, Balasore	13.10.21	30
19	Highland Agro, Balasore	15.12.21	37
20	Singary Marines Pvt Ltd, Bhubaneswar	19.12.21	40
21	B.B Estate Pvt Ltd., Malipada,Khurda	26.3.22	20
22	Danica Exports Pvt. Ltd., Bhogapuram,Vizaianagaram	15.02.22	34
23	Sandy Bay Exports(India)Pvt. Ltd., Marikavalasa, Vizag	16.02.22	30
24	Kings International Ltd, SIPCOT, Tuticorin	27.08.21	35
25	Premier Marine, Eramalloor	07.01.22	18
26	Esmario Export Enterprises Pvt.Ltd., Kollam	05.01.22	44
27	Eminent Sea foods Pvt. Ltd., Thoppumpady	11.01.22	30
28	Amison Fisheries Limited, Tarkarli, Malvan	28.03.22	36
29	Indian Exports, GIDC , Veraval	16.09.21	35
30	Rameshwar Cold Storage, Somnath Raod, Veraval	20.09.21	20
31	Amarsagar Sea Food, Subhashnagar , Porbandar	08.10.21	30
32	K.R Sea Foods, Vanana, Porbandar	09.10.21	30
33	Navrang Sea Foods, Vanana, Porbandar	05.03.22	34
34	West Coast Foods, Vanana , Porbandar	23.03.22	30
35	Poonam Ice & Cold Storage, Lakdi Bandar , Porbandar	26.03.22	30
36	Siddiq Sea Food, Bandar Road, Porbandar	27.03.22	30
37	SCS Impex International, Vanana, Porbandar	28.03.22	30



4.3.2 Cephalopod Value Addition training in West Bengal »»

With the aim to make the exporters of West Bengal aware about value addition of cephalopods and to develop skill for preparation of Cuttle Fish Whole Cleaned (CFWC), Cuttle Fish Fillet (CFF), Cuttle Fish Tentacle (CFTN), Squid Whole Cleaned (SQWC), Squid Tentacle (SQTN), Squid Ring (SQRG), Stuffed Squid, tray packs etc. MPEDA-NETFISH in Kolkata organized six hands-on training programmes during the month of August 2021. A total of 147 nos. of high end workers, supervisors, Technologists, Management staffs etc. of 6 EU approved processing establishments in West Bengal were trained on pre-processing /peeling and processing of cephalopods to produce different value-added products from Cephalopods. Each training was of 2 days duration (see Table). A team consists of NETFISH State Coordinators of West Bengal & Gujarat and 3 trained supervisors from Veraval, Gujarat rendered hands on training to convert whole round cephalopods to value added cephalopods products meant for export to EU countries, USA etc. Each training was charged Rs. 1 lakh as training fee and NETFISH could earn Rs. 3.06 lakh as net income from these programmes. Preparation of value-added products from Cuttlefish, Squid and Octopus were demonstrated to the participants and then they were involved in preparing various products. The hands-on training was comprised

of pre-processing activities, different treatment process, processing, freezing (Blast freezing / Individual Quick Freezing) and final packing. After the hands-on training session, technical sessions were also conducted with the managerial staff, technologists and supervisors for better technical understanding and necessary documentation for export to EU countries. Aid Materials such as aprons, hand gloves, caps, masks, sanitizers, chopping boards, knives, necessary chemicals, trays etc. were given to the participants.

Outcomes: The training programme was the start for shift in the industry towards the value addition and exports to EU destination especially for Cephalopods. Exports have become self-confident to export their products to EU countries. After completion of training, one of the exporters (M/s. S. S. Seafood) got an order to export to EU country and based on that they have started their production. Other exporters are also in pipeline to start their commercial production of value-added cephalopods. After the training programmes, raw material (cephalopods) price has been increased more than Rs.100/- per Kg in Digba Mohana, the largest marine fish auction market in India. Thus the primary producers are also getting more benefit. This will go in an extent for securing the livelihood of processing personnel as well as the fishers for sustainability.





Table: List of Processing units availed the training programme

Sl. No.	Date	Venue	No. of Participants
1	02.08.21 - 03.08.21	M/s. Jana Brothers Sea Food LLP, Digha	27
2	04.08.21 - 05.08.21	M/s. S S Sea Food, Digha	24
3	06.08.21 - 07.08.21	M/s. Essex Marine Pvt. Ltd, Sankarpur	20
4	09.08.21 - 10.08.21	M/s. BASU International, Unit-V, Digha	14
5	11.08.21 - 12.08.21	M/s. Contai Marine Fish Export Pvt. Ltd., Contai	28
6	13.08.21 - 14.08.21	M/s. Megaa Moda Pvt. Ltd, Howrah	34



4.3.3 NFDB Funded Training Programmes for SC fishers »»

Sl. No.	Project	Fund Received (Rs)
1	1-day & 3-days Training programmes for SC Fishers	16.595 lakh
2	1-day Training programmes for SC Fishers in Odisha	6.250 lakh

Project 1

With the Rs. 16.595 lakh received from NFDB to NETFISH a total of 62 nos. of 'Joint Capacity Building Training programmes for SC Fishers' were conducted during September 2021 to March 2022 in West Bengal, Odisha and

Karnataka. The programmes included Harbour based awareness for reduction of post-harvest loss, Dryfish development training and Sea safety & Navigation training and a total of 3100 SC fishers were trained by these programmes (Table).

Type of programme	WB	OD	KA	Total No. of programmes conducted	Beneficiaries
Harbour based awareness programme (1 day)	15	10	15	40	2000
Dry fish training (1 day)	15		5	20	1000
Sea safety training (3 days)	2			2	100
Total	32	10	20	62	3100



Harbour based awareness programme in West Bengal



Harbour based awareness programme in Odisha



Dryfish training in West Bengal



Harbour based awareness programme in Karnataka



Sea safety & navigation training in West Bengal



Dryfish training in Karnataka

Project 2

Utilizing Rs. 6.25 lakh sanctioned by NFDB, a total of 25 nos. of 1-day physical training programmes for Capacity building on fish

quality management, conservation and sustainability were conducted by NETFISH in Odisha, benefitting 1250 nos. of SC fishers.



Harbour based awareness programme for SC fishers in Odisha

For sharing the species-wise fish price information from the 18 Harbours and 17 Landing centres on a weekly basis for the period from October 2021 to October 2022 the NFDB has sanctioned & released Rs. 7.20 lakhs to NETFISH in advance during the year.

4.3.4 Paradeep Port Trust funded programmes in Odisha »»

The Paradeep Port Trust had sanctioned Rs. 10 lakhs to NETFISH during the year, by which 56 nos. of capacity building programmes on Fish Quality management, Conservation & popularization of square mesh cod ends were conducted in Odisha. The training programmes were organized at Paradeep fishing harbour, Balaramgadi fish landing centre and Dhamara Fishing harbour and its nearby fishermen

villages and Primary Fishermen Co-operative societies. Awareness was generated among 1050 beneficiaries including fisher folk, trawler crew members, fishing vessel owners, fishing federation members, etc. Square mesh cod ends, PVC shovels, Gum boots, gloves, masks, caps and t-shirts were provided as aid materials to the beneficiaries as part of the programme.



Mr. P. L. Haranada, IRTS, Chairman, Paradeep Port Trust addressing the fishers and distributing square mesh cod ends and participation certificate during the PPT CSR fund training programme at Paradeep



4.3.5 Azadi Ka Amrit Mahotsav (AKAM)

As part of the observance of 'Vanijya Saptah' by the Department of Commerce during 20-26 September 2021 in connection with 'Azadi Ka Amrit Mahotsav', the MPEDA-NETFISH had conducted a nation-wide event on 26th September 2021 covering nine fishing harbours in nine maritime states, involving fishing boats and fishers. The theme of the programme was to promote "Responsible Fishing for Sustainable Future". Each event was consisted of an inaugural function, awareness classes and then sailing off convoys of fishing vessels to the sea, each vessel decorated with flags and stickers bearing Azadi Ka Amrit Mahotsav logo and with tricolor flag and hangings. T-Shirts, caps, face masks and ID cards with Azadi Ka

Amrit Mahotsav logo and sanitization kits were provided to the participants. Local traditional cultural programmes were also arranged at the venue as part of the celebration. Seafood Exporters Association of India (SEAI) and the various exporters had rendered their immense support for the successful conduct of this event. The event has witnessed active participation from the fishers. In all, 121 fishing vessels and more than 1057 fishers, boat owners and other stake holders had joined the event with great enthusiasm and support. They were all happy to join a national event and be a part of the celebration of 75 years of Indian Independence.

SL. No.	Venue & State	No: of boats & fishers participated
1	Veraval Fishing Harbour, Gujarat	17 fishing vessels and 126 fishers
2	Sasoon Dock Fishing Harbour, Maharashtra	15 fishing vessels and 202 fishers
3	Malim Fishing Harbour, Goa	11 fishing vessels and 88 fishers
4	Mangalore Fishing Harbour, Karnataka	8 fishing vessels and 110 fishers
5	Cochin Fisheries Harbour, Kerala	10 fishing vessels and 100 fishers
6	Chinnamuttom Fishing Harbour, Tamil Nadu	27 fishing vessels and 135 fishers
7	Visakhapatnam Fishing Harbour, Andhra Pradesh	13 fishing vessels and 104 fishers
8	Paradeep Fishing Harbour, Odisha	10 fishing vessels and 82 fishers
9	Petuaghat -friends Industries West Bengal	10 fishing vessels and 110 fishers

WEST BENGAL



ODISHA



ANDHRA PRADESH



TAMIL NADU



KERALA



KARNATAKA



GOA



MAHARASHTRA



GUJARAT



4.3.6 Azim Premji Foundation sponsored activity in Karnataka

In 2020 NETFISH associated with the Azim Premji Foundation for a study in Karnataka Coast for understanding the supply and demand drivers of dried fish value chain as part of a larger project on Dried Fish Matters. NETFISH conducts survey to identify the current dried fish production system, challenges in procurement of raw materials, processing and marketing. The surveys were conducted in different phases in order to understand the seasonal characteristics of

dried fish procurement, processing and trading. During 2020-2021 two phases of surveys were successfully conducted through 9 HDCs of NETFISH in Karnataka. The 3rd phase of survey was conducted in the month of April and May 2021, whereby 271 fishers were surveyed. The final phase of work was done by collecting the various documents which includes photos, data, and information on dry fish producers, fishing harbours and markets.





4.3.7 Institute of Engineers India Ltd. sponsored programmes in West Bengal

On 2nd October '21 on the occasion of Gandhiji's birthday, an awareness programmes was jointly organized by NETFISH and Sarbodaya Sangha at Nizkashba, Purba Medinipur on Fish Quality Management, Conservation and Dryfish. The programme was financially supported by Institute of Engineers (India) Rural Development Forum, Kolkata. About 25 fishers were participated in the programme. Dr. S.P Dutta, Dr. D. Basak, Dr. A. Gupta of Institute of Engineers (India), Shri Amin Sohail, Chairman Dakshin Banga Khuti Samity, Shri

Subrata Maity, Secretary Sarbodaya Sangha, Shri Sintu Maity, HDC and Shri Atanu Ray, State Coordinator were attended in the programme. Dr. R C Mandol, Ex MLA & Agriculture Scientist inaugurated the programme. Sri. Atanu Ray, State Coordinator NETFISH took class on Fish Quality Management, Conservation and Dry Fish. He also talked on abuse of single use plastics, impact of other plastics, torn nets, thermocol pieces etc. on fish and its habitat as well as the entire environment. Mouth masks and sanitizers were given to the participants.

4.3.8 Training on Onboard Handling of Tuna in Lakshadweep

With the financial assistance from Department of Fisheries Lakshadweep and Lakshadweep Development Corporation Limited (LDCL) the MPEDA-NETFISH had provided hands on training to fishers on On-board handling of Tuna and other high value fishes in Lakshadweep. A total of 11 training programmes including 4 classroom trainings and 7 nos. of on-board training programmes were conducted in March 2022, by which fishers of Agatti, Amini, Kavaratti and Kadmat islands were trained on Long Line fishing, processing and preservation techniques. NETFISH State Coordinators along

with trained fishers from Kanyakumari district in Tamilnadu had acted as trainers for conducting the training programmes. Lakshadweep fishers were given hands on training on tuna long lining, onboard hygienic handling, Chill killing, Gilling & Gutting techniques and preservation methods during the training. Proper guidance in gear repair/modification, fish finding and other relevant matters for the betterment of fishing were also provided to the fishers. The fishers of fishing vessels in Lakshadweep were equipped for proper handling and preservation of tuna and other high value fishes onboard.

Table: Details of Classroom Trainings

SL. No.	Date	Location	No. of participants
1	16/03/2022	Kavaratti	56
2	23/03/2022	Kadmat	27
3	25/03/2022	Amini	32
4	28/03/2022	Agatti	35
Total number of participants			150

Table: Details of on-board trainings

SL. No:	Date	Location	No. of Participants
1	16/03/2022	Kavaratti	12
2	17/03/2022	Kavaratti	14
3	19/03/2022	Kavaratti	6
4	20/03/2022	Kavaratti	7
5	24/03/2022	Kadmat	26
6	26/03/2022	Amini	27
7	30/03/2022	Agatti	19
Total number of participants			111



Pre visit to Lakshadweep Islands during January 2022



Shri. Santosh Kumar Reddy V. IFS, Special Secretary (Fisheries) Lakshadweep release the hand book in Malayalam on Onboard handling of Tuna and Dr.Joice V.Thomas, CE NETFISH handing over the Tuna tool kit to the fishermen during the inaugural programme held on 16th March 2022 at Kavaratti.



Classroom Trainings at Kadmat & Amini



View of onboard training programmes

4.3.9 Establishment of a Solar Dryer under the SCSP component of ICAR-CIFT

As part of the capacity building programmes for SC fishers under the SCSP component of ICAR-CIFT a mechanical solar dryer of 70 kg capacity was installed at New Jaldah Matsya Khuti, Purba Medinipur at a cost of Rs. 6,64,200/-. The solar dryer was developed as per the specification derived by ICAR-CIFT and funded by CIFT. The dryer was established with the aim to produce good quality dryfish and thus to enhance the

livelihood income of fishers. The fisherwomen of the SHG -New Jaldah Rashmoni Mohila Samudrik Smaabai Samity, Madarmoni, Purba Medinapur, were benefitted by this dryer. The trial operation of this mechanical solar dryer was done in March 2022 and hands on training on drying was given to the SC women Self Help Group members. The final product of dry fish was quite satisfactory



4.4 OTHER ACTIVITIES

4.4.1 Awareness Programmes for Eradication of Single use Plastics

During October 2021 to March 2022 wide awareness programmes on the harmful impacts of single use plastics and waste management of single use plastics were conducted among stakeholders at fishing harbours and fishing vessels. The fishers were urged to stop use of single use plastics and to use alternative materials like cloth/jute/paper bags, etc. The stakeholders were motivated to do clean-up by picking up plastic waste in their surrounding for proper disposal. The fishers were advised to bring back plastic wastes from sea to the land

during fishing trips to avoid marine pollution. Most of these programmes were carried out as part of the regular harbor based and fishing vessel based programmes. A few programmes (13 nos.) were conducted exclusively for the eradication of plastics. At Tadri fishing harbor a public awareness meeting was arranged on 17th December 2022. As a result of these efforts, the fishers have started bringing back plastic from sea and handing over it to authorities concerned for safe disposal.



Plastic awareness meeting at Tadri FH



Creating awareness among stakeholders in Pudimadaka



Fishers bringing back plastic from sea to land

4.4.2 WWF/MSC sponsored programmes

NETFISH in Kochi organized one day training on "Best practices in onboard fish handling and storage" for the crew of a trawl boat named GEO operated from Murikumpadam harbour. The programme was arranged as part of the ITM FIP programme of WWF India and it was attended by 9 stakeholders including boat owner, Shrank and 7 fishers of the boat. Dr. Vineetha Aravind WWF India FIP consultant spoke on the importance of MSC certification in improving sustainability and better market reach. She also talked about FIP process and the need of cooperation from different stakeholders. Smt. Sangeetha N R., SCO NETFISH delivered a lecture on hygienic fish handling practices, fish preservation techniques, sanitation onboard, personal hygiene, importance of life saving and marine communication equipments, and conservation of fish resources. Special emphasis was given on usage of square mesh cod ends

and the practice of pre-cooling before storage. The trainees have agreed to use square mesh cod-end and to do pre-cooling and to capture these on their mobile phones for at least one haul/ day of catch for purpose of studies. Tub for pre-cooling, crates, gum boots, masks, sanitizer & gloves were distributed to the boat with the support of WWF. Log sheets were also provided for recording details of their fishing voyages. A feedback talk by the GEO boat crew on the advantages of square mesh cod end and the practice of pre-cooling was arranged at Thoppumpady on 13th December 2021 during the harbor based programme. About 30 boat owners, CIFT officials, Department officials and WWF/MSC team were present for the programme. With 50 % subsidy from Department of fisheries, 12 numbers of square mesh code ends were distributed to the trawl boats in Thoppumpady.



Training for trawl boat crew members at Vypin



Experience sharing by a fisher & distribution of square mesh cod end at Thoppumpady

4.4.3 Collaborative programmes with CIFNET

CIFNET & MPEDA-NETFISH jointly conducted 5 nos. of Awareness trainings under PMMSY scheme funded by NFDB which had benefitted about 260 fishers in Ernakulam and Alappuzha. Officials from CIFNET and NETFISH has taken classes on various topics such as Importance

of fish as a good food, Hygienic handling of tuna, Conservation & Sustainable fishing, Post-harvest loss and pre-cooling, Safety at sea, Fishing vessel communications and Vessel Monitoring System.



Joint programme with CIFNET held at Chellanam and Cherai

NETFISH had arranged 23 fishers from Satpati and Alibaug in Maharashtra North region for attending the CIFNET 6 days training on mono-filament long lining and tuna handling on-board for fishers held at Kochi during 28th February to

5th March 2022. All the trainees expressed their gratitude for arranging such training. After the training programme, two of the trainees had applied for subsidy under PMMSY scheme for tuna long liner.



Participants of On-board Training programme



Visit of CIFNET Director to NETFISH Head Office at Vallarpadam

4.4.4 Collaborative programmes with Department of Fisheries

The Kerala State Fisheries Management Council (SFMC) had decided to give trainings to fishers in Kerala on relevant topics in order to create awareness among them. The arrangements of the programmes were entrusted to Dept. of Fisheries and resources persons on various topics were taken from MPEDA-NETFISH, CIFNET and Dept. of Fisheries. NETFISH has associated in conducting 11 such awareness classes during the year, benefitting 345 fishers

in Kollam, Alappuzha, Ernakulam, Kozhikode, Kannur & Kasargode districts in Kerala. The main topics covered were KMFRA, Sustainable fishing, Sea Safety and Navigation. The general awareness of fishers on these subjects had a tremendous improvement due to these training programmes. The fishers actively participated in discussions and their doubts were cleared in the programmes.



State Coordinators of NETFISH Kerala delivering the classes during the SFMC programmes

4.4.5 Joint Programme with CUSAT

NETFISH had associated with the School of Industrial Fisheries, CUSAT in organizing a training programme on 'Value addition of fishery products' for fisher community with an aim to lead them to become entrepreneurs. The programme was conducted at Nayarambalam, Ernakulam on 2nd December 2021, in which Sri. Santhosh N.K. State Coordinator NETFISH took awareness class to the participants on hygienic fish handling. Around 40 people had participated in the programme.



4.4.6 Participation in Vibrant -Gujarat Pre-summit

NETFISH State Coordinator in Gujarat has associated in arranging and attending the MPEDA stall at the Vibrant Gujarat 2021 Pre-summit on 20th December 2021. Around

200 people had visited the stall and they got exposure about the role of MPEDA and NETFISH and its activities in marine sector.



Chairman, MPEDA visited the stall



State Coordinator attending the stall

4.4.7 Usage of social media for extension

Social media is one of the strongest tools to disseminate various information to the mass people within a short span. NETFISH has created 129 WhatsApp groups in 98 different fishing harbour/landing centers wherever HDCs are functioning. The groups have members including Boat owners, fishers, State Fisheries officials, fisherman associations, NGOs etc. Fisheries related information, weather information, various aspects on fish quality, conservation of marine resources and sustainable fishing,

MPEDA's activities, information related to exports, NETFISH activities, NETFISH schemes, PMSSY schemes etc. were disseminated through these WhatsApp groups on a daily basis. These messages had reached about 8000 members on a daily basis.

In addition, a brief report on special activities of NETFISH across the maritime states were published regularly through MPEDA facebook page, Instagram and Twitter.

4.4.8 Harbour Data Collection

From April 2021 to March 2022, about 7,11,633.80 tonnes of fish catch landings and 3,79,846 nos. of boat arrivals were recorded through real-time data collection by the HDCs deployed at 100 fishing harbours/landing centres across the

country, to facilitate the Catch Certification system of MPEDA. Species wise auction rate of various species of fishes were also collected and documented.

4.4.9 Awareness Programmes/Meetings by HDCs

Apart from the regular awareness classes by the NETFISH State Coordinator in fishing harbours and landing centres, the Harbour Data Collectors were engaged in regular awareness generation among the stakeholders. They approach or gather a small group of fishers

and explain to them on hygienic handling and conservation measures, with the aid of NETFISH leaflets, posters and other training materials. This year about 645 such programmes were conducted in various harbours/LCs, of which about 21 programmes were conducted in virtual mode.



4.4.10 Evaluation of HDCs

State Coordinator has done physical verification of the daily activities of HDCs in the fishing harbor and landing centres. SCO has visited the harbor and observed the activities of HDCs, discussed with the boat owners, fisherman and other stake holders regarding HDC's performance, data collection procedure,

relation with the stakeholders communication skill, documentation, arrangement of NETFISH extension programmes etc. The data recorded by the HDC was also verified and compared with the actual landing data narrated by the representative of the concerned fishing vessel.

4.4.11 Other Major Engagements during the Year

1. Participated in a stakeholders meeting on "Development of Fisheries Management plan for Sustainable Marine Fisheries in West Bengal & Odisha" organized on 24th December 2021 by ICAR-CMFRI in Digha. State Coordinator had delivered a talk on present status of marine fisheries, activities of NETFISH-MPEDA and highlighted various issues related to sustainable fishing and conservation of marine resources. Scientists of CMFRI, Secretary of DFFTA, members of fisherman association, Boat

owners, net mender, traders, dry fish fishers, HDC were present in the programme.

2. NETFISH, Kolkata in collaboration with member NGO, The Science Association of Bengal (SAB) and with the sponsorship of Prof. A. K. Barua Memorial Welfare Society in the presence of Dash mile Fisherman Association members had distributed cloths to the 12 fishermen families of Dash mile & Jeetyghat, South 24 Parganas who lost their family members while fishing.



Distribution of clothes to fishermen families

3. On 16th February'22 the State Coordinator attended a training programme at Andulpota, North 24 Parganas organized by MPEDA, RD, Kolkata on "Eco friendly Sustainable Aquaculture" and delivered a talk on post-harvest handling of shrimp, muddy moldy smell problem, traceability etc.
4. On 15th & 16th February'22 conducted inspection of Dry fish unit at M/s. Jogiraj Dry Fish Export & Import Pvt. Ltd. Kakdwip, South 24 Parganas and at M/s. Sea Point

Exports, Basirhat, North 24 Parganas along with Officials of RD MPEDA Kolkata.

5. Attended the meeting and presentation on North Andhra dry fishing and Marketing conducted by District Fishermen Youth Welfare Association (DFYWA) on 15.04.2021 in Visakhapatnam as part of their project funded by Canada. Scientists from CIFT, CMFRI and officials from Dept of Fisheries and major Dry fish stake holders of Vizag fishing harbour were present. SCO NETFISH

suggested forming Fishermen Producer Organization (FPO) of Fish dryers at all the major landing sites and the buyers to approach these FPOs. He also suggested demarking all the fish drying areas with compound wall and gates, mechanization of fish drying activity to produce large quantities and value addition in dry fish. The consultant was impressed by the inputs given by NETFISH SCO and assured to come out with new project as per the suggestions.

6. Attended the meeting and Flag hoisting of Matsya Shikari survey vessel of FSI, Vizag for survey and assessment of Marine mammals & Sea turtles population on 23.7.21 at Fishing harbour Visakhapatnam. All the officials of Dept. of Fisheries, CIFNET, NIFPHATT, Scientists from CMFRI & CIFT were present.
7. NETFISH and Coast Guard jointly conducted the awareness program on Sea safety equipment on 27.12.2021 in fishing harbour Visakhapatnam. Boat owners, crew of multiday fishing vessels, Dept. of fishery officials and Port officials had attended the programme.
8. NETFISH and Visakhapatnam Port Trust jointly conducted a harbour cleanup programme at market area in Visakhapatnam fishing harbour on 28.12.2021. All fish vendors and traders had participated in the clean-up programme.
9. On 3rd December, 2021, Dr. Girija Behere, SCo, Maharashtra delivered an invited talk on "Fresh water fish utilization and value addition" in 3 days Training Programme on "Sustainable Shrimp Farming and Aquaculture of Diversified Species" organized by MPEDA RD, Mumbai at Kharland Research Station, Panvel.
10. On 15th December, Dr. Girija Behere, SCo, Maharashtra delivered a theory

class on "Cultivated Fish: Utilization and Value Addition" in a training programme on "Sustainable Shrimp Farming and Aquaculture of Diversified Fish Species" organized by MPEDA-RD, Mumbai at Vave, Alibaug, Raigad.

11. Dr. Girija Behere, State Co-ordinator, NETFISH-MPEDA delivered an invited talk on Employment opportunities in Fisheries, Sustainable and Responsible Fishing on 11th January, 2022 in a Webinar on "Career Opportunities, Sustainable & Responsible fishing" organized by Dnyandeep Mandals St. Joseph College of Arts and Commerce, Virar and NETFISH-MPEDA for students and professors from various colleges and few fishers. More than 50 participants attended the webinar.
12. On 21st January, 2022, Dr. Girija Behere, SCo, Maharashtra delivered a theory class on "Cultivated Fish: Utilization and Value Addition" in a training programme on "Sustainable Shrimp Farming and Aquaculture of Diversified Fish Species" organized by MPEDA-RD, at Sagaon Alibaug, Raigad Mumbai.
13. Dr. Girija Behere, State Co-ordinator, NETFISH-MPEDA delivered an invited talk on "Fish Processing: Value addition and By-products" on 4th March, 2022 for UG students of NAAC A+ accredited C K Thakur College, Panvel in virtual mode. A total of 112 participants attended the webinar.
14. On 11th February 2022 the SCO had attended the Stakeholder's meeting organized by DIG, ICGS, Veraval at Indian Coast Guard Station, Veraval to stop fishermen from crossing Indian border line while doing long line fishing. Officials of Coast guard, MPEDA, CIFT, CMFRI, Exporters and Department of Fisheries were also present. SCO, NETFISH did a presentation on Responsible fishing for sustainable fishing.



5. MAJOR ACHIEVEMENTS/ OUTCOMES

5.1 GUJARAT

- The fishers are taking self-initiatives to keep the harbour and its surroundings clean.
- The fishers have stopped throwing solid waste in to sea, instead they store it in polybags for proper disposal at land.
- Fishers practice chilling of the catch before storage in fishing vessels to reduce post-harvest loss.
- Fishers of Vanakbara-DIU (UT) has stopped dumping of block ice on dirty floor, instead they directly put in to ice crushing machine or use a plastic sheet.
- Boat owners and fishers at Veraval, Mongrol, Porbandar and Okha send the catch directly to processing plant to avoid surface contact at harbour and use sufficient ice to reduce post-harvest loss.
- Implemented Vessel log sheet at Mangrol FH and the HDC at Mangrol is collecting 10 to 15 Vessel log sheets every day from vessel owner/captain.

5.2 MAHARASHTRA NORTH

- In Uttan and Arnala, fisher women started using plastic baskets for washing fish before drying.
- Fishers at Uttan started using outer nets to cover the fish during drying to avoid birds.
- A few boats from Arnala have started bringing back plastic from the sea to land on regular basis.
- Fishers from Vasai observed self-declared fishing ban for 21 days from 13th January to 3rd February 2022 to conserve fish.
- Fishers are using plastic sheets and plastic crates for keeping ice blocks and using adequate ice to preserve the fishes at fishing harbours & fish landing centres.

5.3 MAHARASHTRA SOUTH & GOA

- Fishers from Arnala implemented self-declared fishing ban during 29th March to 22nd April 2021 to stop juvenile fishing, as it is the breeding period of Silver Pomfret.
- Fishers at Chapora, North Goa had fabricated one Square mesh cod end having mesh size of 25 mm from Diamond mesh webbing and fixed in trawl net.
- Observed that many trawlers use square mesh cod ends regularly at Harnai port
- 18 fishing vessels regularly bring back plastic wastes from sea and unload it at the Harne port for safe disposal.

5.4 KARNATAKA

- Due to NETFISH intervention, the Department of Fisheries has initiated monitoring temperatures of various raw materials landed at Gangolli fishing harbor, Karnataka from 1st of April 2021, as a measure to ensure proper maintenance of cold chain and the quality of the fishery materials. Temperature of fish and shrimps on the deck (before weighing), after auction and before packing are recorded by the supervisor with the assistance of NETFISH Harbour Data Collector in the harbour.

5.5 KERALA NORTH

- The fish for auction at Kalamukku harbour in Vypin is being kept in boxes. Earlier fishes were dumped on floor for auction.
- A regular cleaning schedule is prepared and implemented at Ponnani harbour and thus the cleanliness of the harbour has improved.

- Practice of pre-cooling of fishes before storing in fishing boats is being adopted by many fishing vessels.

5.6 KERALA SOUTH

- Installed a water Kiosk at Thoppumpady fishing harbor by facilitating CSR fund of Rs. 6.5 lakhs from Cochin Ship yard.
- Light facility, hand washing and cleaning facility have improved at Thoppumpady harbor.
- Facilitated the purchase of square mesh cod ends by 12 boats at Thoppumpady FH availing subsidy from Dept. of fisheries.
- Merchants at Thoppumpady harbor use plastic baskets and sheets for sorting and auction of shrimps.
- At Thottappally & Neendakara FH, fish for auction is kept in plastic baskets.
- Dry fishers at Neendakara use mats for fish drying avoiding dumping on sand.

5.7 TAMIL NADU SOUTH

- The deep sea fishers of Tharuvaikulam have adopted chill processing in their boats.
- The fisher take care to avoid exposure of fishes to sun and store the catch in good quality ice.
- The fishers and vendors at Tharuvaikulam FLC avoid stamping of fish using leg and slipper.

5.8 ANDHRA PRADESH NORTH

- The dry fisher women group of Visakhapatnam fishing harbour use the solar dryer installed with VPT fund inside the harbour and produce good quality dried products.
- Even the local auctioneers in Vizag fishing harbour are keeping the fish in small plastic fish baskets for auction.

- The small catamaran fishers use plastic sheet for segregation of fish from nets to avoid floor contact.
- Toll collection system has been initiated in Visakhapatnam fishing harbour.
- The fishers at Kakinada transport crushed ice directly in to the boat to avoid crushing at the jetty.
- Some of the FRP Boat owners at Vizag fishing harbor has started using plastic sheets to keep big size Tuna for auction, instead of keeping on bare land.
- The fishers at Pudimadaka fish landing centre load Tuna fish directly from boat to the insulated vehicle avoiding keeping them on sand.
- Many of the boat owners and fishers bring back the plastic waste obtained during fishing to the shore for safe disposal.
- The fishers practice pre-cooling, gilling and gutting and fill with ice before storage in fish hold by which they could land Yellow fin tuna of about 15 Kg with GG grade at Pudimadaka fish landing centre.
- The number of bottom trawling boats converted to hook and line fishing has increased from 60 to 200. These boats are fitted with hook and line by hand without hydraulic winch.
- Fishers operate ring seine nets only beyond 8 km from the coast to protect juveniles and action is take against those violating it.

5.9 ANDHRA PRADESH SOUTH

- Fishers follow regular cleaning of fishing vessel before and after every voyage.
- Boat owners started arranging Insulated Fish box in their fishing vessels.
- In Nizampatnam FH, the auctioneers use plastic sheets while auction the fish to maintain the quality and to reduce post-harvest loss.



- In Nizampatnam FH, the fishers sort fish in the fishing vessel itself to avoid putting on the floor of the jetty.
- Boat owners and crew members of Multi Day trawlers at Nizampatnam, Machilipatnam and Vodarevu FLC has initiated collecting plastic waste from sea and bring back to land for safe disposal.
- The Dry fishers at Vodarevu FH dry their products in an improved way using tarpaulin sheets and other net material to avoid the contact with sand and floor.

5.10 ODISHA

- One of the trawler owners at Balaramgadi, Balasore has purchased 2 nos. of square mesh cod ends to be used in his boat.
- Fishers has started using Insulated fish box to reduce post-harvest loss.
- Fish auction conducted on raised platforms.



- Fishers use plastic crates, basket and sheets for proper fish and ice handling.
- Fishers follow proper cleaning of vessel, auction, hall, fish handling equipment's, etc.

5.11 WEST BENGAL

- Proper icing of catch and maintaining the quality until it reach to the auction markets.
- All the crates are properly cleaned before loading the catch for auction.
- Plastic crates, plastic baskets and plastic shovels have been used for handling the fishes onboard fishing vessels.
- Catches are transferred in the auction market in plastic crates, insulated fish box with adequate ice through insulated vehicle to reduce post-harvest loss and maintain better quality.
- Ice blocks are not dragged on jetty, instead head loaded from truck to jetty and kept on poly sheet.
- Fishes are transferred to auction markets in covered vehicles.
- The quality of fish and shrimp has increased and are fetching Rs. 20/- to Rs. 30/- extra per Kg. of catch.
- Uses of harmful chemicals in dry fish have been reduced to a great extent.



Proper icing of catch in West Bengal



Use of plastic shovel by fishermen in West Bengal



Before



After

Ice blocks kept on polysheets avoiding surface contact



Before



After

Fishes are sorted by keeping on plastic sheets



Drying of fish in hygienic manner at Freserganj



Fisherwomen in Vizag use solar dryer



New site in Pudimadaka for loading Tuna directly from fishing vessel into vehicle



Before



After

Before: Ice kept on floor; After: Ice loaded from crusher directly to fishing vessel in Kakinada



Regular checking of raw material temperature in Gangolli



Fishers in Amdalli use waste bins for dumping plastics



Sufficient icing of fish observed at Malpe & Honnavar



Pre-cooling practice in fishing vessels in Kerala



Filth checking facility in a PPC at Munambam



Boat Owner in Alibag, provided uniform for crew member



Use of raised platforms in Arnala for drying



Cleaning of fishing vessels at Uttan



Fishers in Harne use square mesh cod end



Fishers in Harnai bringing back plastic



Fishers in Chapora earlier used net pieces for cleaning which were then thrown to sea. Now they use brushes.



Square mesh codend in fishing vessel in Paradeep



Fishers in Jafrabad brings back plastic from sea



Self motivated plastic eradication drive in Gujarat



Crushed Ice loaded directly into fishing vessel at
Vanakbara



Played a vital role in upgrading Paradeep Fishing Harbour, Odisha as a model fishing harbour in India



An approach of fisherman from Alibaug, Maharashtra towards bringing back plastic from the sea and conservation of fishery resources

Mr. Vinayak Damodar Sakharkar, a 50-year-old fisherman from Alibaug, Maharashtra and crew of his small gill netter boat bring back plastic caught in the fishing net from the sea for more than two decades now. He is been fishing for past 30 to 35 years and seeing a lot of plastic accumulation in sea he started bringing plastics entangled in the net back to the land and put into the waste bin kept by Municipal Corporation. He brings more than 25 kg of plastic every day. In past 20 years period, plastic brought by his small gill netter boat Vaishnavi Krupa would

account for approximately 1,20,000 kgs. He had taken it as his duty to save sea as it is the source of his livelihood. In addition, he release back berried females of live lobster caught in the net and help them to grow and replenish their future stock. He also motivates other fishers to practice the same. As informed by him, a minimum of 7 to 8 berried female lobster are got during November-December every year which are released back to the sea in live condition.



Mr. Vinayak Sakharkar with his crew during fishing trip



Plastic trapped in gill net during fishing operation



NETFISH honoring Mr. Vinayak Damodar Sakharkar as an appreciation for his towards bringing back plastic from the sea for more than two decades and conservation of lobster fishery resources



Awareness activities through Harbour Data Collectors



Mopla Bay, Kerala



Munakkakadavu, Kerala



Vizag, Andhra Pradesh



Machilipatnam, Andhra Pradesh



Devgad, Maharashtra



Satpati, Maharashtra



Chief Executive NETFISH visits Mudga Beach Landing Centre in Karnataka



MPEDA-NETFISH

ANNUAL REPORT | 2021-22

6. FINANCIAL STATEMENTS FOR THE YEAR 2021-22

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

BALANCE SHEET AS AT 31-03-2022

(In Rs.Ps)

LIABILITIES	Sch	As on 31.03.22	As on 31.03.21
CAPITAL FUND			
Opening balance		65,43,779.96	73,24,611.82
Add: Fund received from MPEDA during the year		1,50,00,000.00	1,50,00,000.00
Less: Excess of Income over Expenditure for the year		(1,23,79,497.69)	(1,56,91,955.39)
Less: Loss of Seafood India Stall		(51,787.92)	(88,876.47)
		91,12,494.35	65,43,779.96
MPEDA SC/ST Welfare Project Fund			
Funds received from MPEDA for reimbursement under SC/ST Welfare Scheme for insulated fish boxes and solar dryers		2,79,74,900.00	
UNDP PROJECT FUND			
UNDP Fund received from MPEDA		1,61,75,000.00	1,61,75,000.00
Less: Project Expense Payable		(10,93,448.45)	(10,94,097.45)
Less: Amount utilised towards Mangrove Crab Project, Mumbai		(1,50,81,551.55)	(1,50,80,902.55)
TOTAL		3,70,87,394.35	65,43,779.96
ASSETS			
FIXED ASSETS	1		
Opening WDV		13,26,410.33	12,22,386.56
Add: Additions made during the year		75,551.00	3,94,850.00
Less: Depreciation		(3,30,113.96)	(2,90,826.23)
Closing WDV		10,71,847.37	13,26,410.33
CURRENT ASSETS, LOANS AND ADVANCES			
CURRENT ASSETS			
TDS receivable		19,625.00	15,125.00
CASH & BANK BALANCE			
Cash in hand Seafood India Stall		7,783.86	6,602.00
Balance with banks	2	4,09,66,159.63	92,27,249.25
Current Assets Seafood India Stall	3	12,692.40	2,46,533.14
LOANS & ADVANCES			
Advance to Staff & Supplier		30,623.00	3,28,749.00
Amount Receivable From MPEDA Seafood India Stall		1,05,178.56	53,390.79
		4,11,42,062.45	98,77,649.18
CURRENT LIABILITIES AND PROVISIONS			
OTHER LIABILITIES & PROVISIONS			
HDC Salary & Internet Allowance - Advance		20,030.00	46,667.00
EMD Fish Nutricart Kiosk		25,000.00	25,000.00
Expenses Payable NETFISH	4	4,94,006.00	1,19,255.00
Expenses Payable Seafood India Stall	5	5,04,367.00	72,700.00
Salary Payable NETFISH	6	9,00,987.00	8,75,637.00
Sundry Creditors Seafood India Stall	7	1,94,763.02	5,35,202.10
Harbour Data Collector Trainee Payable		18,76,214.00	18,74,021.00
Mangrove Crab Project Payable		10,93,448.45	10,94,097.45
Audit Fee Payable		17,700.00	17,700.00
		51,26,515.47	46,60,279.55
NET CURRENT ASSETS		3,60,15,546.98	52,17,369.63
TOTAL		3,70,87,394.35	65,43,779.96

Subject to notes on accounts and schedules forming an integral part of accounts and our report of even date

Place: Ernakulam

Date: 12/09/2022

UDIN: 22052270ARVLAK7928

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
(मणिज्य एवं उद्योग मंत्रालय, भारत सरकार)
(Ministry of Commerce & Industry, Govt. of India)
पनमिल्ली नगर / Panampilly Nagar
कोच्ची / Kochi-36

(Director)

डॉ. एम. कार्थिकेयन / Dr. M. KARTHIKEYAN
निदेशक / Director
समुद्री उत्पाद निर्यात विकास प्राधिकरण
The Marine Products Export Development Authority
मणिज्य एवं उद्योग मंत्रालय
Ministry of Commerce & Industry
भारत सरकार / Govt. of India
कोच्ची / Kochi-682 504

For G. Natesan & Co.,
Chartered Accountants

K.C. SEETHARAMAN FCA, DSA
Partner (M.No. 52279)
Firm Regd No: 688424 S

(Auditor)



SEAFOOD INDIA
MPEDA, Panampilly Nagar, Kochi, Kerala - 682036

PROFIT & LOSS ACCOUNT FOR THE PERIOD ENDED 31-03-2022

	For the year ended 31.03.22	For the year ended 31.03.21	For the year ended 31.03.22	For the year ended 31.03.21
Opening Stock	2,40,314.14	3,49,261.70	Sale of Traded Goods	15,73,359.72
Purchases	9,57,344.96	27,60,918.18	Closing Stock	8,566.40
Less: Returns	9,57,344.96	96,635.22		
Direct Expenses	26,64,202.96	40,235.61		
Gross Profit	3,82,267.02	8,58,456.95		
	15,79,926.12	39,12,237.22		
Indirect Expenses	11 5,10,997.33	10,59,835.94	Gross Profit	3,42,267.02
			Indirect Income	25,154.46
				12
			Net Loss Transferred to Balance Sheet	1,03,575.85
				510997.33
				1,77,752.91
				1059835.94

Subject to notes on accounts and schedules forming an integral part of accounts and our report of even date

Place: Ennakulam

Date: 12/03/2022

UDIN: 22052200ARVUAC7938



(Chief Executive Officer)

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

अनिल कुमार सी. जयकुमार, पी.
संयुक्त निदेशक (Joint Director)

समुद्री उत्पाद निर्यात विकास प्राधिकरण
Marine Products Export Development Authority
(वाणिज्य एवं उद्योग मंत्रालय, भारत सरकार)
(Ministry of Commerce & Industry, Govt. of India)
पनपिल्ली नगर / Panampilly Nagar
कोच्ची / Kochi - 36.



(Director)

ए. एम. कार्तिकियार / Dr. M. KARTHIKEYAN
निदेशक / Director
समुद्री उत्पाद निर्यात विकास प्राधिकरण
Marine Products Export Development Authority
वाणिज्य एवं उद्योग मंत्रालय
Ministry of Commerce & Industry
भारत सरकार / Govt. of India
कोच्ची / Kochi - 682 504

For G. Natesan & Co.,
Chartered Accountants

K.C. SEETHARAMAN FCA, DISA
Partner (M.No. 82270)
Firm Regn No: 0024348

(Auditor)



NETWORK FOR FISH QUALITY MANAGEMENT & SUSTAINABLE FISHING (NETFISH), KOCHI
REG. NO. ER 509/16

RECEIPTS & PAYMENT ACCOUNT FOR THE YEAR ENDED 31.03.2022

Receipts	(Rs.)	Payments	(Rs.)
Opening balance - 01.04.2021			
Cash		Payments for Extension Activities Training Programmes	86,95,175.88
Bank			
Fund Received from MPEDA	89,22,077.09	Travelling for Extension Training Staff	3,65,056.00
Fund Received from NFDDB	1,50,00,000.00	Animation	15,83,540.00
Fund Received from NFDDB FMPS	22,84,500.00		
Fund Received from NFDDB FMPS	7,19,950.00	UNDP Project (Bank Charges)	649.00
Fund Received from CIFT	20,00,000.00	Payment to Employees	1,13,09,141.00
Fund Received from Paradeep Port Trust	9,00,000.00		
Fund Received from MPEDA SC/ST Welfare Project	4,65,100.00	Harbour Data Collector Trainee Expenses-Salary & Internet Allowances Paid	2,23,97,719.00
Fund Received from APU Project	40,500.00	Establishment & Other Items	6,62,903.85
Fund received from Processing Plant Training fee	3,90,001.00	Fixed Assets Purchased	75,551.00
Fund Received from AKAM	13,36,454.00	Refunded to MPEDA	93,431.00
Fund Received from SEAI for VACP	3,86,578.00		
Fund Received from Lakshadweep	24,98,400.00		
Other Income	34,002.00		
Fund Received from MPEDA-Harbour Data Collector Trainee Expenses	2,23,73,355.00		
Advances	2,98,126.00		
Funds received from MPEDA for reimbursement under SC/ST Welfare Scheme for insulated fish boxes and solar dryers	2,79,74,900.00		
	8,56,23,943.09	Closing balance - 31.03.2022	4,04,40,676.36
		Cash in hand	8,56,23,943.09
		Balance with banks	

Subject to notes on accounts and schedules forming an integral part of accounts and our report of even date

Place: Ernakulam

Date: 12/09/2022

UDIN: 22052270ARVLAK7938

[Signature]

(Chief Executive Officer)

Dr. Jeeva V. Thomas

Chief Executive

NETFISH-MPEDA

Vellappadam (P. O.)

Kochi-682 504, Kerala

अनिल कुमार.सी./Anil Kumar. P /
संयुक्त निदेशक / Joint Director /
समुद्री उत्पाद निर्यात विकास प्राधिकरण
(संयुक्त निदेशक / Joint Director /
समुद्री उत्पाद निर्यात विकास प्राधिकरण)

Marine Products Export Development Authority
(Ministry of Commerce & Industry, Govt. of India)

पंजाबली नगर / Panampilly Nagar

कोची/कोची-36

(Director)

डी. ए. कार्थिकेयन/Dr. M. KARTHIKEYAN

निदेशक / Director

समुद्री उत्पाद निर्यात विकास प्राधिकरण

Marine Products Export Development Authority

संयुक्त एवं उद्योग विभाग

Ministry of Commerce & Industry

भारत सरकार / Govt. of India

कोची-682 504



For G. Natesan & Co.,
Chartered Accountants

K.C. SEETHARAMAN FCA, DISA
Partner (M.No. 52270)
Firm Regn No: 0024248

(Auditor)

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

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2022

		(in Rs.)
	For the year ended 31-3-2022	For the year ended 31-3-2021
INCOME		
Fund Received from NFDB	22,84,500.00	
Fund Received from NFDB FMPS	7,19,950.00	
Fund Received from CIFT	20,00,000.00	
Fund Received from Paradeep Port Trust	9,00,000.00	1,00,000.00
Fund Received from MPEDA SC/ST Welfare Project	4,65,100.00	70,00,000.00
Fund Received from APU Project	45,000.00	1,35,000.00
Fund received from Processing Plant Training Fee	3,90,001.00	7,30,000.00
Fund Received from AKAM	13,36,454.00	
Fund received from Processing Plant for VACP	3,06,576.00	
Fund Received from Lakshadweep	24,98,400.00	
Fund Received from SEAI	-	4,68,000.00
Fund Received from HIC ABF	-	2,50,000.00
	1,10,25,983.00	86,83,000.00
Miscellaneous Income		
Application Fee	11,000.00	-
Membership Fee	-	-
Renewal Fee	-	-
Other Miscellaneous Income	23,002.00	4,000.00
	34,002.00	4,000.00
TOTAL	1,10,59,985.00	86,87,000.00
EXPENDITURE		
Extension Activities	8 1,06,43,791.88	1,19,76,726.00
Employee Cost	9	
Salary - Chief Executive	12,78,822.00	11,06,436.00
Salary - State Co-ordinators	78,11,381.00	73,29,074.00
Salary - Research Assistant	11,25,870.00	10,09,335.00
Salary - Staff	7,51,713.00	6,45,762.00
Employer Contribution to PF	3,66,705.00	3,74,520.00
	1,13,34,491.00	1,04,65,127.00
Administrative Expenses	10 11,31,085.85	16,46,276.16
Depreciation	1 3,10,113.96	2,90,826.23
TOTAL	2,34,39,482.69	2,43,78,955.39
Excess of Income over Expenditure	(1,23,79,497.69)	(1,56,91,955.39)

Subject to notes on accounts and schedules forming an integral part of accounts and our report of even date

Place: Ernakulam
Date: 12/09/2022
UDIN:22052270ARVLAK7935

For G. Natesan & Co.,
Chartered Accountants

K.C. SEETHARAMAN FCA, DISA
Partner (M.No. 52270)
Firm Regn No: 9024248

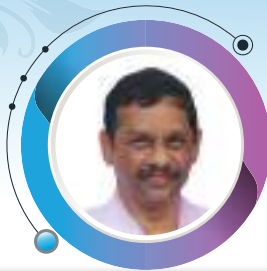

Dr. Joice V. Thomas
Chief Executive
NETFISH-MPEDA
Vallarpadam (P. O.)
Kochi-682 504, Kerala


Dr. M. Karthikeyan
Joint Director
समुद्री उत्पाद निर्यात विकास प्राधिकरण
Marine Products Export Development Authority
(वाणिज्य एवं उद्योग मंत्रालय, भारत सरकार)
(Ministry of Commerce & Industry, Govt. of India)
पनम्पिल्ली नगर/Panampilly Nagar
कोच्ची/Kochi-35.


Dr. M. Karthikeyan
Director
समुद्री उत्पाद निर्यात विकास प्राधिकरण
The Marine Products Export Development Authority
वाणिज्य एवं उद्योग मंत्रालय
Ministry of Commerce & Industry
भारत सरकार / Govt. of India
37-D Kochi-682 775



OFFICE BEARERS 2021-22



Sri. K.S. Srinivas IAS
President, NETFISH & Chairman, MPEDA
chairman@mpeda.gov.in



Dr. Joice V. Thomas
Chief Executive, NETFISH
Mob: 944 613 9861
joice.nf@mpeda.gov.in

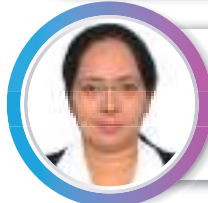


Sri. Anil Kumar P.
Treasurer, NETFISH
& JD (M), MPEDA
anilkumarp@mpeda.gov.in

Sri. Jignesh Visavadia
State Coordinator, Gujarat
982 577 2085
jignesh.nf@mpeda.gov.in



Sri. Atanu Ray
State Coordinator, West Bengal
983 046 8866
atanu.nf@mpeda.gov.in



Dr. Girija S Behere
State Coordinator,
Maharashtra North
996 432 1486
girija.nf@mpeda.gov.in



Sri. S. K. Mohapatra
State Coordinator, Odisha
943 800 4106
subhra.nf@mpeda.gov.in



Sri. Santosh Kadam
State Coordinator
Maharashtra South & Goa
996 728 1087
santoshk.nf@mpeda.gov.in



Sri. Hanumantha Rao
State Coordinator
Andhra Pradesh North
996 621 9338
hmrao.nf@mpeda.gov.in



Sri. Narayana K.A.
State Coordinator, Karnataka
944 853 0798
narayana.nf@mpeda.gov.in



Dr. Murali Mohan Matturti
State Coordinator,
Andhra Pradesh South
960 345 7888
murali.nf@mpeda.gov.in



Sri. Santhosh N.K.
State Coordinator, Kerala North
965 628 5815
santhoshnk.nf@mpeda.gov.in



Dr. Vinoth S. Ravindran
State Coordinator
TamilNadu South
965 563 8373
vinoth.nf@mpeda.gov.in



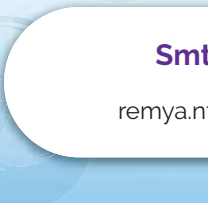
Smt. Sangeetha N.R.
State Coordinator, Kerala South
949 660 4976
sangeetha.nf@mpeda.gov.in



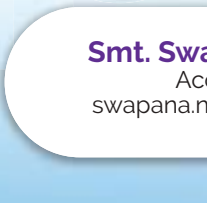
Dr. Afsal V.V.
Research Assistant
afsai.nf@mpeda.gov.in



Smt. Neethu N.J.
Research Assistant
neethu.nf@mpeda.gov.in



Smt. Remya K.R.
Accountant
remya.nf@mpeda.gov.in



Smt. Swapna Cleatus
Accounts Assistant
swapana.nf@mpeda.gov.in







Network for Fish Quality Management & Sustainable Fishing (NETFISH)

Vallarpadam P.O., Kochi-682504, Kerala, India | Ph: 0484 2982205
netfish@mpeda.gov.in | www.netfishmpeda.org