



MPEDA

Newsletter

VOL.VII/NO.8&9/ NOVEMBER/DECEMBER 2019

PAGE 05

MPEDA at the Second China International Import Exposition, Shanghai

PAGE 23

Dress Code for Workers in a Kerala Fishing Harbour

PAGE 36

From development assistance to start-up enterprise



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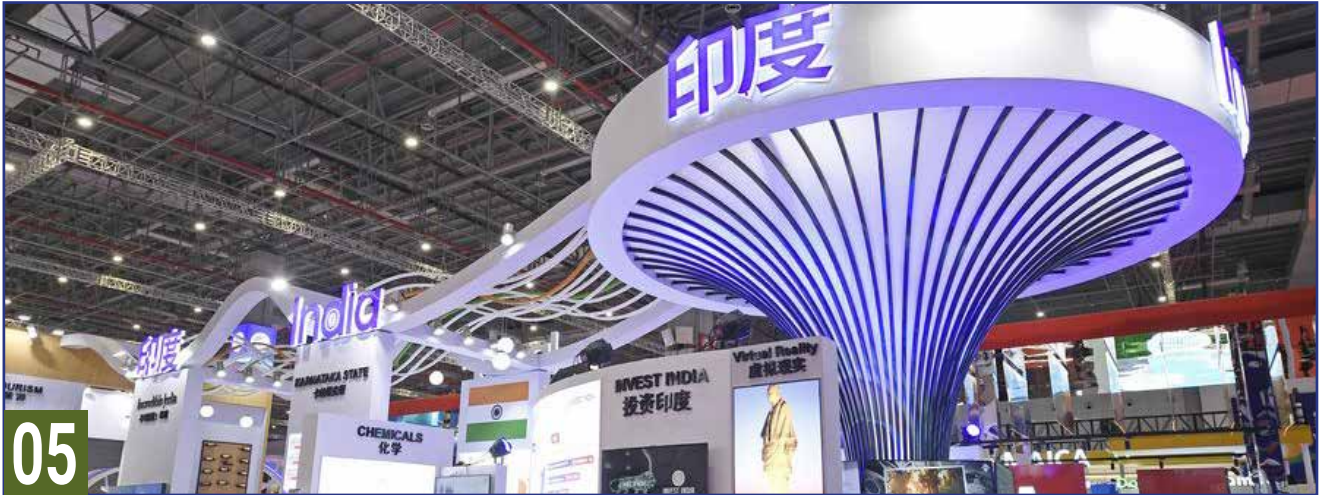
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MPEDA

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CONTENTS



05 MPEDA at the Second China International Import Exposition, Shanghai



21

Exporters' Meet at Kollam



24

Hands-on Training Programme on Seafood Value Addition



29

Hands-on Training Programme on Seafood Value Addition in Visakhapatnam



34

The 4th Pillay Aquaculture Foundation Congress



39

Focus on Water Treatment as a Key to Bring Down Production Cost



47

Training programme on Eco-friendly and Sustainable Aquaculture



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K. S. Srinivas IAS
Chairman

Dear friends,

MPEDA has led a trade delegation to China during late October and with the help of the Embassy, a very effective market promotion event and buyer seller meet was arranged in Qingdao. The event was attended by about 35 exporters and 25 importers. Subsequently, the team led by the Chairman also had a meeting with the Director General of General Administration of Customs, People's Republic of China wherein we had placed the contentious issues that affect seafood export trade to Chinese market. Executives of China Chamber of Commerce of Import and Export of Food Stuff, Native Produce and Animal By-products were also met to discuss the possibilities of enhancing trade and investments. We expect positive outcome from the meeting with the Chinese Customs, so that our exporters will get due benefit through enhanced seafood trade with China. MPEDA had meetings with a trade delegation from Singapore with an aim to promote live shrimp and soft shell crab exports from India. MPEDA will support the stakeholders in taking the project forward.

MPEDA has also contended the observations by the US Department of States Team denying certification to any of our wild caught shrimp fishery under Section 609, thereby effectively blocking the export of wild caught shrimps to US market. Needless to say, India has taken effective measures to protect turtles. The justifications filed were backed by scientific evidences so that the US will be able to review their report and permit those fisheries that are not adversely affecting the turtle population in the country.

The issues related to biosecurity and other conservation measures have to be viewed as technical barriers to trade brought out by super powers to block the trade flow. At the same time, it is also the responsibility of the stakeholders to equip or systems to international standards, which will help to do hassle free exports without any fears for such trade barriers.

Thank you.

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MPEDA at the Second China International Import Exposition, Shanghai

MPEDA participated in the 6-day China International Import Expo (CIIE), Shanghai as part of India's pavilion. The CIIE was held from November 5 to 10, 2019. The deputed officers for the expo were Mr. M. Shaji, Deputy Director, MPEDA Visakhapatnam and Dr. Ansar Ali A., Deputy Director, MPEDA, Head Office.

The Expo

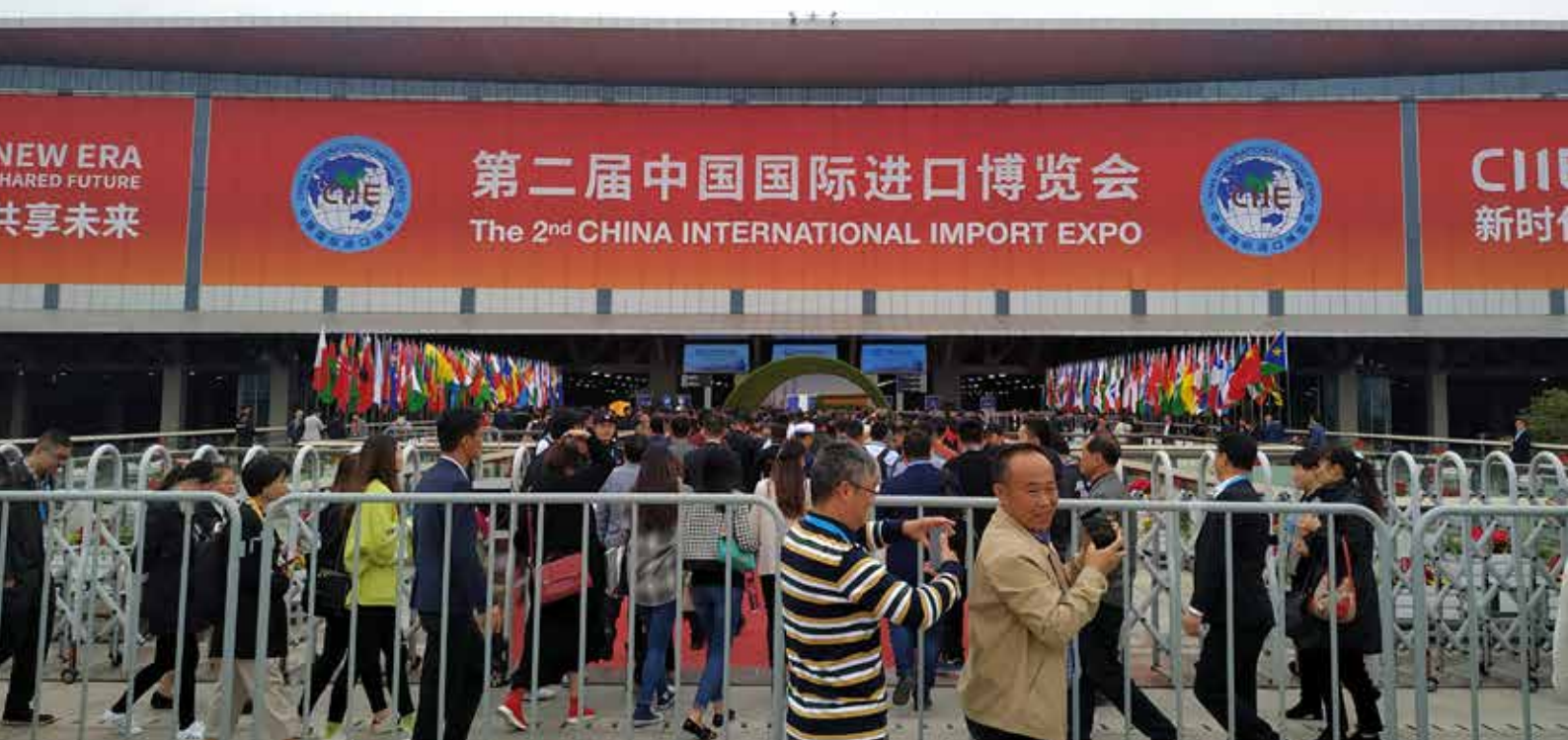
The second China International Import Expo (CIIE), one of the biggest expo of the world, was held in the global financial hub of Shanghai, China at the National Convention and Exhibition Center. The event was jointly hosted by the Ministry of Commerce and the Shanghai Municipal Government. The event is the first dedicated import exposition in the world. The total exhibition area is more than 2,40,000 sq. meters.

The event featured almost 3,800 business exhibiting companies from 180 countries and region. Around 67 guest countries participated in the country pavilion. The theme of the exposition was "New Era Shared Future", which means the principle of inclusive development and shared benefits, in order to realise common development. The seven focus sectors for the expo were Sci-tech life, Automobile, Equipment, Medical Equipment and health care products, Quality Life, Trade in services, Food and Agricultural products.

During inaugural function, Chinese President Mr. Xi Jinping said, "Let's work together to build an open world economy through cooperation, innovation for mutual benefits." He also said that China will continue to open up its market and will continue to improve the business environment, multilateral and bilateral cooperation.

National Exhibition and Convention Center (Shanghai) is a large exhibition centre with a total construction area of 1.47 million square meters, among which 1.27 million square meters are above ground. It consists of exhibition halls, plaza, office buildings, hotel, and accommodation.

The Second China International Import Expo (CIIE) had space for Sci-tech life, automobile, equipment, medical equipment and health care products, quality life, trade in services, food and agricultural products and country pavilions. China, India, Russia, Uzbekistan, Georgia, Azerbaijan, Belarus, Turkmenistan, Armenia, Hungary, Czech Republic, France, Greece, Italy, Portugal, Sweden, Spain, Monaco, Croatia, Finland, Latvia, Malta, Poland, Slovenia, Middle East countries, Nepal, Maldives, Bangladesh, Jamaica, Turkey,



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MARKETING NEWS

Sri Lanka, Zambia, Cameroon, Ivory Coast, Rwanda, South Africa, Tunisia, Zambia, Peru, Uruguay, Chile, Colombia, Ecuador, Dominican Republic, Brazil, Papua New Guinea, Argentina, Costa Rica, Cuba, El Salvador, Fiji, Vanuatu and South East Asian countries were represented in the country pavilions.

India Pavilion

India's country pavilion was beautifully designed along Indian culture and the 'Make in India' concept. India's participation in the country pavilion was organised by the Federation of Indian Export Organization (FIEO), set up by the Ministry of Commerce, Government of India at Hall No. 5.2 of second floor. The pavilion covered 136 square meters. The participants were from four sectors focusing on Food &



Indian Pavilion front View

Agro, Pharmaceuticals, IT & ITES and Tourism and Service. The India Pavilion was inaugurated by Mr. Vikram Misri, the Indian Ambassador to China.

Table space for MPEDA was provided

under the Food and Agro sector along with APEDA at right hand side of the pavilion. MPEDA's backdrop display featured the theme "Indian Seafood: Toast of the world". Even though the Second China International Import Expo (CIIE), Shanghai, was general expo, MPEDA received around 25 notable trade enquires for frozen, live and chilled and dried seafood products, mostly from Chinese customers.

Trade enquiries are mainly for shrimp, finfishes and tuna. There was lot of interest shown by the professional visitors on the AFD shrimp displayed in the booth.

The products displayed in the stall were mainly ready-to-eat items like freeze dried shrimp, freeze dried shrimp powder, canned tuna chunks in brine, canned tuna chunks in oil, Chitin, Chitosan and Marine Collagen Peptide.

APEDA and Spices Board have also displayed their products. Agricultural products like Basmati Rice and Organic Indian wine were displayed in the pavilion. During the exhibition, APEDA served Biryani, Black and Red Indian wine, which attracted many delegates to the Indian pavilion. The Indian delegation led by Commerce Secretary also visited the Food and Agro Sector of Indian Pavilion.



A view of MPEDA space

MARKETING NEWS



Commerce secretary Mr. Anup Wadhawan visiting MPEDA booth at the Indian Pavilion

The deputed officers visited the nearby supermarkets to study the marketing of seafood in Chinese

supermarkets. The products were displayed and sold in live, chilled and frozen forms. The live seafood

is the most prominent one as most of the Chinese buyers are looking for live marine products.



Mr. Vikram Misri, Ambassador of India to China, visiting MPEDA booth in the India Pavillion during CIIE-2019

Highlights of marine fish landings in selected harbours of India during September 2019

AFSAL V.V., N.J. NEETHU AND JOICE V. THOMAS, NETFISH-MPEDA
NETFISH-MPEDA

As part of the Catch certification scheme of MPEDA, a system for collection of data on boat arrivals and marine fish landings happening at the major harbours of India has been introduced through NETFISH. This report presents the results of the analysis of harbour data obtained during September 2019.

Data Collection & Analysis

Fish landings and boat arrivals occurred at the 98 selected harbours across the 9 maritime States of India (see Table 1) were obtained on a day-to-day basis through the Harbour Data Collectors deployed at the harbours. The name, registration number and type of fishing vessels arrived as well as the approximate quantity of major fishery items landed at the harbour were recorded through primary and secondary sources. The data were further analysed using online applications and MS office (Excel) tools to arrive at species-wise, region-wise, State-wise and harbour-wise estimations.

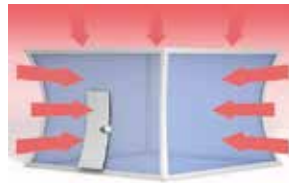
Table 1. List of landing sites selected for data collection

Sl. No.	State	Harbour
1	Gujarat	Jafrabad
2		Veraval
3		Mangrol
4		Ghoghla
5		Kotada
6		Sutrapada
7		Vanakbara
8		Dwarka Rupen
9		Dholai
10		Umargam
11		Chorwad
12		Porbandar

13	Maharashtra	Alibagh Koliwada
14		Arnala
15		Vasai
16		Dahanu
17		Harne
18		Malvan
19		New Ferry Wharf
20		Onni Bhatti Dabhol
21		Ratnagiri
22		Sakharinate
23		Sasoon Dock
24		Satpati
25		Taramumbri Devgad
26		Uttan
27	Versova	
28	Goa	Cutbona
29		Malim
30		Vasco
31	Chapora	
32	Karnataka	Amdalli
33		Belekeri
34		Bhatkal
35		Gangolli
36		Honnavar
37		Karwar
38		Malpe
39		Mangalore
40		Tadri



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FOCUS AREA

41	Kerala	Koyilandi	77	Tamil Nadu	Tharuvaikulam	
42		Cheruvathur	78		Thengaipattinam	
43		Mopla Bay	79		Tuticorin	
44		Azheekkal	80	Andhra Pradesh	Kakinada	
45		Thangassery	81		Machilipatnam	
46		Vaadi	82		Nizampatnam	
47		Neendakara	83		Pudimadaka	
48		Chellanam	84		Visakhapatnam	
49		Ponnani	85		Vodarevu	
50		Chettuva	86	Yanam		
51		Vypin	87	Odisha	Bahabalpur	
52		Munambam	88		Balramgadi	
53		Thoppumpady	89		Balugaon	
54		Puthiyappa	90		Dhamara	
55		Beypore	91		Paradeep	
56		Kayamkulam	92	West Bengal	Deshapran	
57		Thottappally	93		Fraser Ganj	
58		Vizhinjam	94		Kakdwip	
59		Sakthikulangara	95		Namkhana	
60		Tamil Nadu	Chennai		96	Raidighi
61			Chinnamuttom		97	Sankarpur
62			Colachel		98	Soula
63			Cuddalore			
64			Karaikal			
65			Kodiyakarai			
66			Kottaipatnam			
67			Mallipatnam			
68			Mandapam			
69			Mudasalodai			
70	Nagapattinam					
71	Pamban					
72	Pazhayar					
73	Pondicherry					
74	Poompuhar					
75	Pulicat					
76	Rameswaram					

Estimation of fish landings

A total of 108251.84 tons of landings of marine fishery resources was recorded from the 98 selected landing sites during September 2019, which was comprised of 42,034.46 tons (39 per cent) of Pelagic finfish resources, 29,847.87 tons (28 per cent) of Demersal finfishes and 36,369.51 tons (33 per cent) of shellfish resources (Fig.1)

About 259 species of fishery items have contributed to the total landings, among which the top five species were Ribbon fish (*Lepturacanthus savala*), Pharaoh cuttlefish (*Sepia pharaonis*), Squid (*Loligo duvauceli*), Japanese thread fin bream (*Nemipterus japonicus*) and Karikkadi Shrimp (*Parapenaeopsis stylifera*) (Fig. 2). The other major species recorded were the Indian Mackerel (*Rastrelliger kanagurta*) and Croaker (*Johnius Spp*), each contributing 4,544.99 tons and 3,821.80 tons respectively. The Hooked Tonguesole (*Cynoglossus carpenteri*) with a quantity of 0.01 tons was the species that registered least landing during the month.

FOCUS AREA

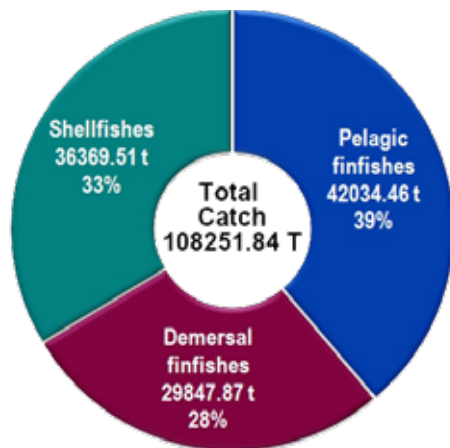


Fig.1. Category-wise fish landings during September 2019

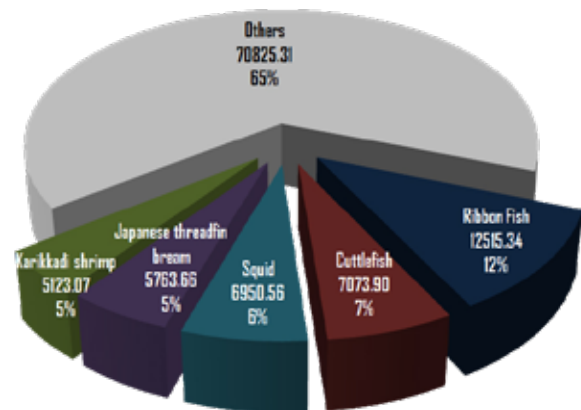


Fig. 2. Major fishery items landed during September 2019

Table 2. presents the quantity-wise catch of various categories of fishery items recorded during September 2019. Among the Pelagic finfish resources, Ribbon fish, Bombay duck and Indian Mackerel were the major

contributors and in the case of Demersal finfishes, it was Threadfin breams, Croakers and Pomfrets which contributed more. Major items among Shellfishes were Coastal shrimps, Cuttlefish and Squid.

Table 2. Category-wise landing of various fishery items during September 2019

Fish item	Quantity in tons	% of total catch
Pelagic finfishes		
Ribbon fishes	15605.98	14.42
Indian mackerel	4544.99	4.20
Tunas	4069.80	3.76
Scads	3625.65	3.35
Bombay duck	3248.99	3.00
Indian oil sardine	2079.46	1.92
Anchovies	2068.73	1.91
Seerfish	1073.70	0.99
Lesser sardines	1070.02	0.99
Shads	977.05	0.90
Barracudas	843.94	0.78
Trevallys	788.25	0.73
White fish	376.74	0.35
Dolphin fish	295.25	0.27
Sword fish	275.06	0.25
Mulletts	204.80	0.19
Indian salmon	178.95	0.17
Sail fish	151.59	0.14

Queenfish	107.10	0.10
Herrings	106.95	0.10
Cobia	102.91	0.10
Needlefish	67.31	0.06
Marlins	58.49	0.05
Sillago	30.37	0.03
Halfbeaks	23.20	0.02
Silver biddies	17.32	0.02
Barramundi	16.19	0.01
Pompano	12.39	0.01
Milk fish	11.25	0.01
Flyingfish	1.32	0.00
Sweet lip	0.42	0.00
Wahoo	0.35	0.00
Total	42034.46	38.83
Demersal finfishes		
Japanese thread fin bream	5763.66	5.32
Croaker	5540.05	5.12
Lizard fish	3209.52	2.96
Triggerfish	2864.58	2.65

FOCUS AREA

Pomfrets	2774.64	2.56
Reef cod	1696.92	1.57
Catfishes	1674.38	1.55
Thread fin breams	965.27	0.89
Bull eyes	860.66	0.80
Sole fish	853.03	0.79
Goatfishes	720.37	0.67
Rays	411.55	0.38
Emperor	379.04	0.35
Pony fishes	351.24	0.32
Eel	333.64	0.31
Perches	312.29	0.29
Shark	293.62	0.27
Snapper	266.51	0.25
Grouper	143.97	0.13
Moon fish	119.84	0.11
Unicorn leatherjacket	104.10	0.10
Indian threadfin	93.07	0.09
Rabbit fish	34.31	0.03
Flatfishes	28.50	0.03
Parrot fish	26.86	0.02
Seabream	17.96	0.02
Surgeon fish	3.87	0.00
Indian threadfish	3.27	0.00
Drift fishes	0.48	0.00
Sickle fish	0.40	0.00
Pinjalo	0.25	0.00
Spade fish	0.03	0.00
Total	29847.87	27.57
Shellfishes		
Coastal shrimps	11364.41	10.50
Cuttlefish	11128.57	10.28
Squid	9479.68	8.76
Sea crabs	1706.94	1.58
Octopus	1701.46	1.57
Deepsea shrimps	846.75	0.78

Lobsters	102.42	0.09
Mud crab	39.30	0.04
Total Shellfishes	36369.51	33.60
Grand Total	108251.84	100.00

Region-wise landings

In September 2019, the maximum quantity of fish landings was recorded from the North-West coast, where a total of 50,312.34 tons (46 per cent of total catch) was reported from the selected harbours of Maharashtra and Gujarat. The South-West coast comprised of Kerala, Karnataka and Goa had contributed 28,297.86 tons (26 per cent) to the total catch. In South-East coast, landings recorded from the selected harbours in Tamil Nadu and Andhra Pradesh were totalled to 16,035.31 tons (15 per cent), whereas along the North-East coast 13,606.33 tons (13 per cent) of fish catch was recorded in total from the selected harbours of West Bengal and Odisha (Fig. 3).

State-wise landings

Considering State-wise landings, Gujarat recorded the maximum landing, which was to the tune of 35,708.75 tons (33 per cent of total catch) (Fig. 4). This was followed by Kerala with 16,060.55 tons (15 per cent) and then by Maharashtra with a contribution of 14,603.59 tons (13 per cent). The State that reported least landing during the period was Goa, where only 348.25 tons of marine fish catch was recorded.

Harbour-wise landings

The fish landings recorded during the month at the selected harbours of North-West, South-West, South-East and North-East coasts are presented in the figures 5, 6, 7 and 8 respectively. Of the 98 harbours, Veraval harbour registered the maximum landing of 19778.18 tons (18.27 per cent) and it was followed by New Ferry Wharf with a landing of 8355.70 tons (7.72 per cent). The least quantity of marine fish catch was recorded from Chapora harbour in Goa (3.17 tons).

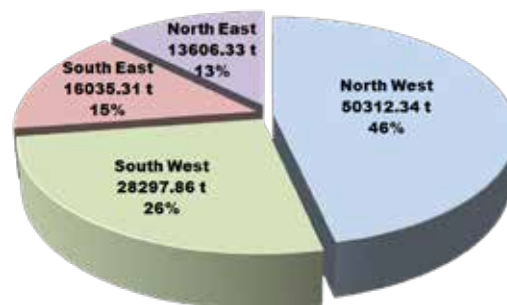


Fig. 3. Region-wise landings (in tons) recorded during September 2019

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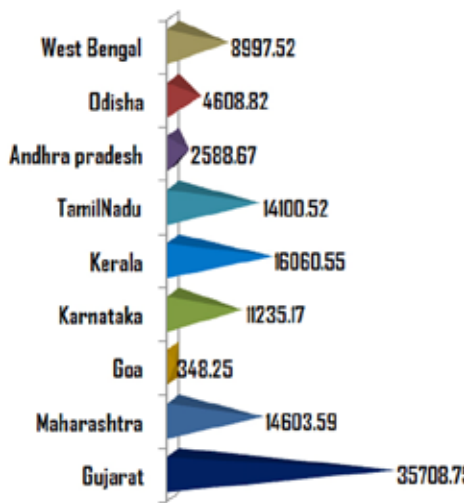


Fig. 4. State-wise fish Landings (in tons) during September 2019

Table 3. Harbours which recorded maximum landing in each state

Sl. No.	State	Harbour	Quantity	% of Total Catch
1	Gujarat	Veraval	19778.18	18.27
2	Maharashtra	New ferry Wharf	8355.70	7.72
3	Goa	Cutbona	171.11	0.16
4	Karnataka	Mangalore	6520.18	6.02
5	Kerala	Munambam	3700.80	3.42
6	Tamil Nadu	Chinnamuttom	5592.00	5.17
7	Andhra Pradesh	Visakhapatnam	1362.65	1.26
8	Odisha	Paradeep	1439.52	1.33
9	West Bengal	Namkhana	2106.93	1.95

Fig. 5 to 8. Landings (in tons) recorded at harbours in NW, SW, SE and NE coasts during September 2019

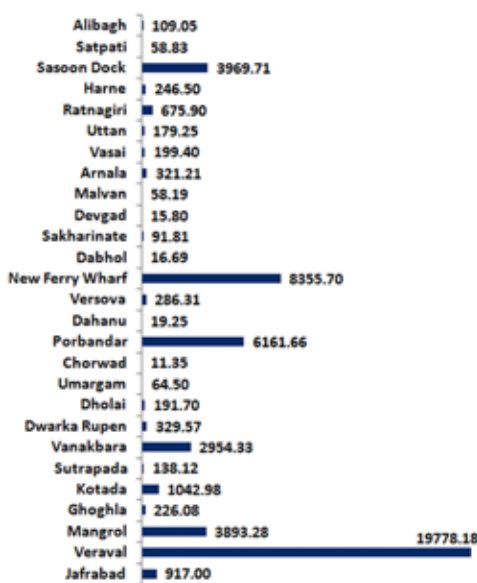


Fig.5.

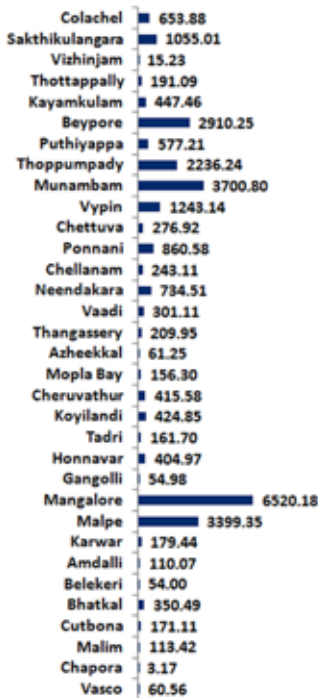


Fig.6.

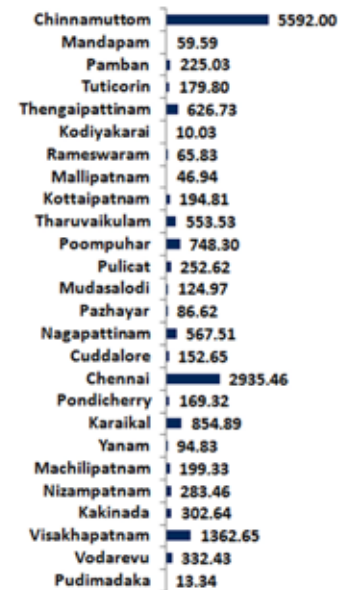


Fig.7.

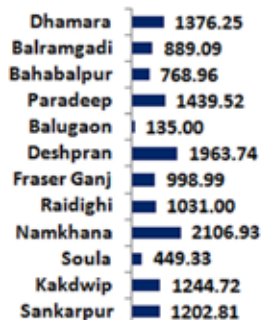


Fig.8.

Estimations on boat arrivals

A total of 43,511 boat arrivals were recorded during September 2019, of which the highest recording was from Veraval harbour (2,892) and it was followed by New Ferry Wharf harbour with 1,511 boat arrivals and Porbandar harbour with 1,480 boats.

The Yanam harbour had registered the least boat arrival (41) during the month. The top ten harbours in terms of boat arrivals are presented in the table 4.

FOCUS AREA

Table 4. List of top ten harbours which recorded more boat arrivals during September 2019

Sl. No.	Harbour	No. of boat arrival
1	Veraval	2892
2	New Ferry Wharf	1511
3	Porbandar	1480
4	Mangrol	1340
5	Deshapran	1136
6	Vanakbara	1114
7	Munambam	1044
8	Neendakara	928
9	Chellanam	924
10	Tuticorin	896

Summary

In September 2019, a total landing of 1,08,251.84 tons of marine fishery resources was registered from the 98 major fishing harbours of India, where in Pelagic finfishes were the major contributors and the Ribbon fish was the species which reported the highest quantity.

About 72 per cent of the total catch was from the West coast and the North-West coast had registered the maximum catch. Gujarat recorded the highest landing during the month and comparing the harbour-wise quantity the Veraval harbour was found as the highest contributor. Of the 43,511 boat arrivals recorded during the month, the maximum record was from Veraval harbour.



Highlights of marine fish landings in selected harbours of India during October 2019

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NETFISH-MPEDA

NETFISH collects the data on boat arrivals and marine fish landings occurring at the major harbours of India, as part of the Catch Certification Scheme of MPEDA. The results of the analysis of harbour data obtained during October 2019 are as follows.

Data Collection and Analysis

Fish landings and boat arrivals occurred at the 98 selected harbours across the 9 maritime States of India (see Table 1) were obtained on a day-to-day basis through the Harbour Data Collectors deployed at the harbours. The name, registration number and type of fishing vessels arrived as well as the approximate quantity of major fishery items landed at the harbour were recorded through primary and secondary sources. The data were further analysed using online applications and MS office (Excel) tools to arrive at species-wise, region-wise, State-wise and harbour-wise estimations.

Table 1. List of landing sites selected for data collection

Sl. No.	State	Harbour
1	Gujarat	Jafrabad
2		Veraval
3		Mangrol
4		Ghoghla
5		Kotada
6		Sutrapada
7		Vanakbara
8		Dwarka Rupen
9		Dholai
10		Umargam
11		Chorwad
12		Porbandar

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13	Maharashtra	Alibagh Koliwada	50	Kerala	Chettuva
14		Arnala	51		Vypin
15		Vasai	52		Munambam
16		Dahanu	53		Thoppumpady
17		Harne	54		Puthiyappa
18		Malvan	55		Beypore
19		New Ferry Wharf	56		Kayamkulam
20		Onni Bhatti Dabhol	57		Thottappally
21		Ratnagiri	58		Vizhinjam
22		Sakharinate	59		Sakthikulangara
23		Sasoon Dock	60	Chennai	
24		Satpati	61	Chinnamuttom	
25		Taramumbri Devgad	62	Colachel	
26		Uttan	63	Cuddalore	
27		Versova	64	Karaikal	
28		Goa	Cutbona	65	Kodiyakarai
29			Malim	66	Kottaipatnam
30	Vasco		67	Mallipatnam	
31	Chapora		68	Mandapam	
32	Karnataka	Amdalli	69	Mudasalodai	
33		Belekeri	70	Nagapattinam	
34		Bhatkal	71	Pamban	
35		Gangolli	72	Pazhayar	
36		Honnavar	73	Pondicherry	
37		Karwar	74	Poompuhar	
38		Malpe	75	Pulicat	
39		Mangalore	76	Rameswaram	
40		Tadri	77	Tharuvaikulam	
41	Kerala	Koyilandi	78	Thengaipattinam	
42		Cheruvathur	79	Tuticorin	
43		Mopla Bay	80	Kakinada	
44		Azheekkal	81	Machilipatnam	
45		Thangassery	82	Nizampatnam	
46		Vaadi	83	Pudimadaka	
47		Neendakara	84	Visakhapatnam	
48		Chellanam	85	Vodarevu	
49		Ponnani	86	Yanam	
				Tamil Nadu	
					Chennai
					Chinnamuttom
					Colachel
					Cuddalore
					Karaikal
					Kodiyakarai
					Kottaipatnam
					Mallipatnam
					Mandapam
				Mudasalodai	
				Nagapattinam	
				Pamban	
				Pazhayar	
				Pondicherry	
				Poompuhar	
				Pulicat	
				Rameswaram	
				Tharuvaikulam	
				Thengaipattinam	
				Tuticorin	
				Andhra Pradesh	
					Kakinada
					Machilipatnam
					Nizampatnam
					Pudimadaka
					Visakhapatnam
				Vodarevu	
				Yanam	

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87	Odisha	Bahabalpur
88		Balramgadi
89		Balugaon
90		Dhamara
91		Paradeep
92	West Bengal	Deshapran

93	West Bengal	Fraser Ganj
94		Kakdwip
95		Namkhana
96		Raidighi
97		Sankarpur
98		Soula

Estimations on fish landings

A total of 126295.68 tons of landings of marine fishery resources was recorded from the 98 selected landing sites during October 2019, which was comprised of 43044.27 tons (34.1 per cent) of Pelagic finfish resources, 42641.17 tons (33.8 per cent) of Demersal finfishes and 40610.25 tons (32.2 per cent) of shellfish resources (Fig. 1).

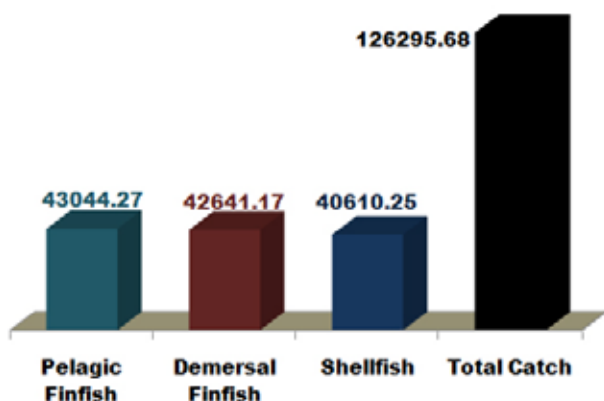


Fig. 1. Category-wise fish landings during October 2019

About 259 species of fishery items contributed to the total landings, among which the top five species were *Lepturacanthus savala* (Ribbon fish), *Odonus niger* (Red-toothed triggerfish), *Sepia pharaonis* (Pharaoh cuttlefish), *Loligo duvauceli* (Squid) and *Nemipterus japonicus* (Japanese thread fin bream)(Fig. 2). These five species together formed 33 per cent of the total catch. The other major landings were of *Parapenaeopsis styliifera* (Karikkadi Shrimp) and *Johnius spp* (Croaker), each contributing 4950.18 tons and 4718.80 tons respectively.

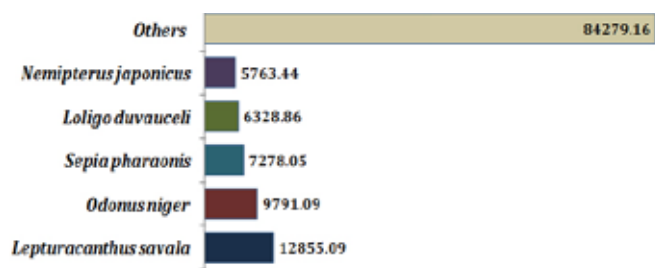


Fig. 2. Major fishery items landed during October 2019

Table 2 presents the quantity-wise catch of various categories of fishery items recorded during October 2019. Among the Pelagic finfish resources, Ribbon fish was the major contributor and then followed by Tunas, Bombay duck and Indian mackerel.

In the case of Demersal finfishes, the major contributor was the Triggerfish and then followed by Croakers and Japanese threadfin bream. Major items among Shellfishes were Coastal shrimps, Cuttlefish and Squid.

Table 2. Category-wise landing of various fishery items during October 2019

Fishery item	Quantity in tons	% of total catch
Pelagic finfish		
Ribbon Fish	14213.56	11.25
Tunas	4779.85	3.78
Bombay duck	4353.80	3.45
Indian mackerel	4299.26	3.40
Scads	3746.63	2.97
Indian oil sardine	2305.08	1.83
Anchovies	1719.09	1.36
Seerfish	1355.91	1.07
Lesser Sardine	1132.88	0.90
Shads	696.58	0.55
Trevallies	694.31	0.55
Dolphin fish	653.53	0.52
Barracuda	627.54	0.50
Sword fish	604.63	0.48
Sail Fish	372.02	0.29
Indian Salmon	282.63	0.22
Mulletts	219.36	0.17
Herring	217.19	0.17

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White fish	179.55	0.14
Queenfish	147.91	0.12
Cobia	146.65	0.12
Needlefish	120.66	0.10
Marlins	111.94	0.09
Halfbeaks	26.03	0.02
Silver Biddies	18.06	0.01
Milk fish	8.18	0.01
Barramundi	7.62	0.01
Flyingfish	2.75	0.00
Surgeonfish	0.51	0.00
Sweet Lip	0.49	0.00
Wahoo	0.08	0.00
Total pelagic	43044.27	34.08
Demersal finfish		
Triggerfish	11409.05	9.03
Croaker	6437.94	5.10
Japanese thread fin bream	5763.44	4.56
Lizard Fish	3144.30	2.49
Pomfret	2640.48	2.09
Catfish	2477.25	1.96
Leatherjacket	2073.75	1.64
Reef Cod	1757.37	1.39
Sole fish	1567.44	1.24
Bull Eyes	1206.80	0.96
Thread Fin Breams	1123.63	0.89
Goatfish	671.76	0.53
Shark	502.55	0.40
Rays	388.56	0.31
Eel	319.05	0.25
Snappers	229.14	0.18
Pony fish	225.05	0.18
Moon Fish	202.11	0.16
Emperor	115.07	0.09
Indian threadfin	114.16	0.09
Perch	65.67	0.05

Silverbelly	54.36	0.04
Seabream	46.82	0.04
Whiting	35.63	0.03
spinefoot	22.85	0.02
Flat Head	21.71	0.02
Parrot Fish	11.30	0.01
Grouper	8.51	0.01
Surgeonfish	1.90	0.00
Drift Fishes	0.85	0.00
Sickle Fish	0.80	0.00
sillago	0.77	0.00
Spade Fish	0.75	0.00
Rabbit Fish	0.38	0.00
Total demersal	42641.17	33.76
Shellfish		
Coastal shrimps	12830.39	10.16
Cuttlefish	11804.59	9.35
Squid	11123.91	8.81
Sea crab	1828.90	1.45
Octopus	1520.78	1.20
Deepsea shrimps	1385.54	1.10
Lobsters	84.17	0.07
Mud crab	30.26	0.02
Whelk	1.70	0.00
Total shellfish	40610.25	32.15
Grand Total	126295.68	100.00

Region-wise landings

In October 2019, the maximum quantity of fish landings was recorded from the North-West coast, where a total of 62706.18 tons (50 per cent of total catch) was reported from the selected harbours of Maharashtra and Gujarat.

The South-West coast comprised of Kerala, Karnataka and Goa had contributed 35562.45 tons (28 per cent) to the total catch. In South-East coast, landings recorded from the selected harbours in Tamil Nadu and Andhra Pradesh were totalled to 11595.03 tons (9 per cent) whereas along the North-East coast 16432.03 tons (13 per cent) of fish catch was recorded altogether from the selected harbours of West Bengal and Odisha (Fig. 3).

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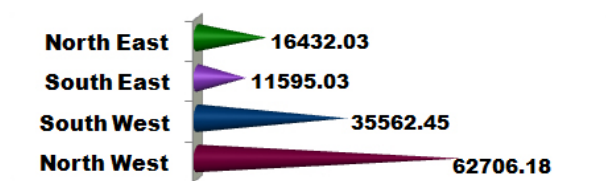


Fig. 3. Region-wise landings (in tons) recorded during October 2019

State-wise landings

Considering State-wise landings, Gujarat recorded the maximum landing, which was to the tune of 42455.59 tons (34 per cent of total catch) (Fig. 4). This was followed by Maharashtra with 20250.59 tons (16 per cent) and then by Karnataka with a contribution of 17732.96 tons (14 per cent). The State which reported least landing during the period was Andhra Pradesh, where only 2115.79 tons (2 per cent) of marine fish catch was recorded.

Harbour-wise landings

The fish landings recorded during the month at the selected harbours of North-West, South-West, South-East and North-East coasts are presented in the figures 5. Of the 98 harbours, Veraval harbour registered the

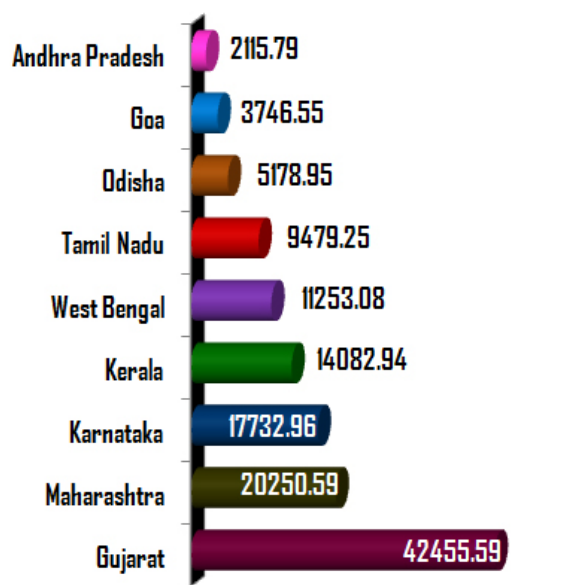


Fig. 4. State-wise fish landings (in tons) during October 2019

maximum landing of 19095.54 tons (15 per cent) and then by the New Ferry Wharf with a landing of 11109.40 tons (9 per cent). The least quantity of marine fish catch was recorded from Chapora harbour in Goa (8.81 tons).

Table 3. Harbours in each state which had recorded maximum landing during October 2019

Sl.No.	State	Harbour	Quantity
1	Gujarat	Veraval	19095.54
2	Maharashtra	New Ferry Wharf	11109.40
3	Goa	Cutbona	1821.90
4	Karnataka	Mangalore	8573.78
5	Kerala	Thoppumpady	2648.93
6	Tamil Nadu	Chennai	3102.53
7	Andhra Pradesh	Visakhapatnam	1272.60
8	Odisha	Paradeep	1966.73
9	West Bengal	Namkhana	3356.78

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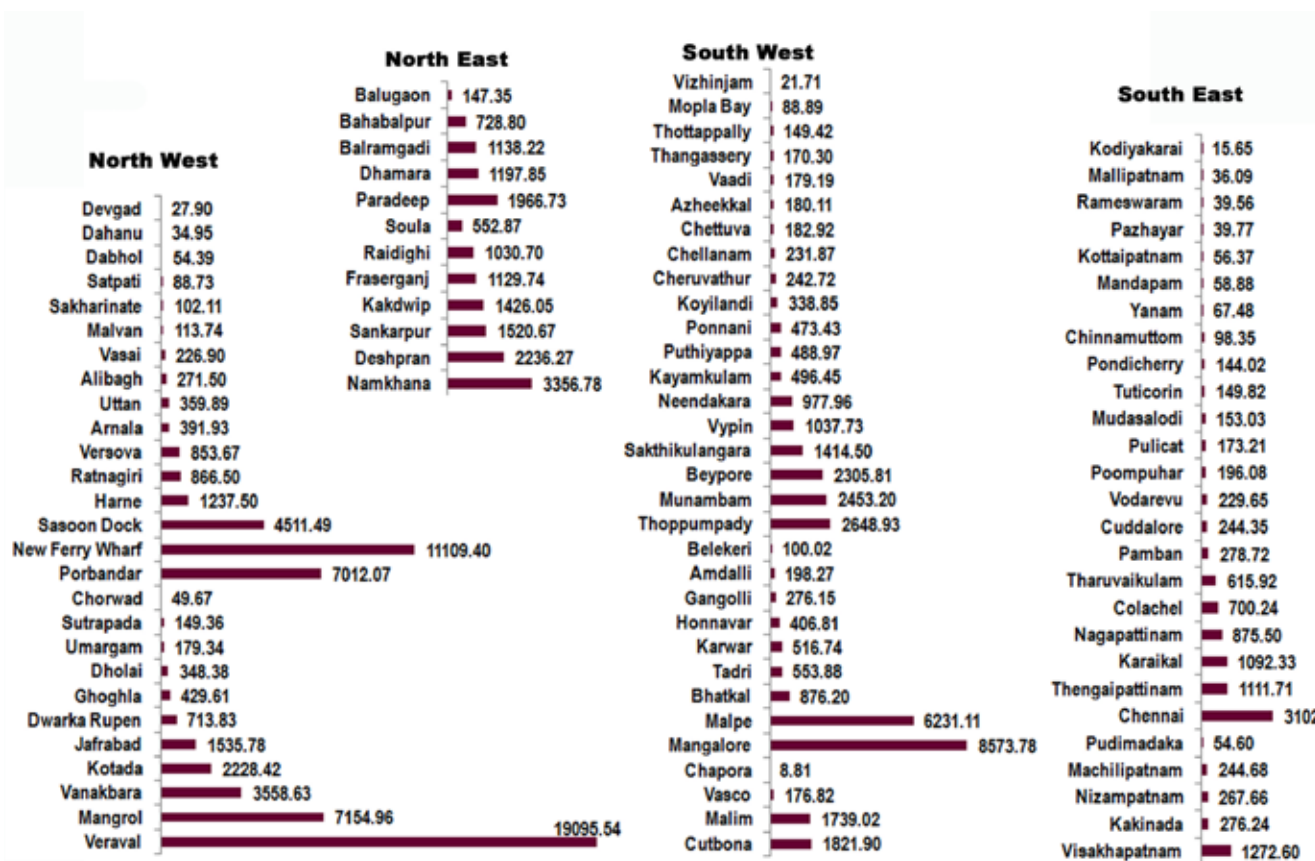


Fig. 5. Landings (in tons) recorded at harbours in NW, SW, SE and NE coasts during October 2019

Estimations on boat arrivals

A total of 49501 boat arrivals were recorded during October 2019, of which the highest recording was from Veraval harbour (3511) and it was followed by Mangrol harbour with 2299 boat arrivals and New Ferry Wharf harbour with 1784 boats. The Yanam harbour had registered the least boat arrival (28) during the month. The top ten harbours in terms of boat arrivals are enlisted in the table 4.

Table 4. List of top ten harbours which recorded more boat arrivals during October 2019

Sl. No.	Harbour	No. of boat arrival
1	Veraval	3511
2	Mangrol	2299
3	New Ferry Wharf	1784
4	Porbandar	1490
5	Malpe	1345

6	Vanakbara	1331
7	Deshpran	1092
8	Munambam	1016
9	Harne	989
10	Neendakara	925

Summary

In October 2019, a total landing of 126295.68 tons of marine fishery resources was reported from the 98 major fishing harbours of India, where in Pelagic finfishes were the major contributors and the Ribbon fish was the species which reported the highest quantity. About 78 per cent of the total catch was from the West coast and the North-West coast had registered the maximum catch. Gujarat recorded the highest landing during the month and comparing the harbour-wise quantity the Veraval harbour was the highest contributor. Of the 49501 boat arrivals recorded during the month, the maximum boat arrivals recorded was from Veraval harbour.

Exporters' Meet at Kollam

A meeting of exporters of Kollam region was organised by the MPEDA Sub Regional Division, Kollam on November 15, 2019 to discuss the bottlenecks and constraints in the export sector of marine products, which was attended by eight stakeholders.

The focus of the meeting was to discuss the intervention of MPEDA for ease of doing business.

The exporters were represented by Mrs. Geetha Divakar, Manager of M/s. San Marine Exports, Mr. A. A. Kurup, General Manager, Esmario Export Enterprises Ltd., Mr. George John, Director of M/s. Seaboy Fisheries Pvt. Ltd., Mr. G. Vijayan, Manager, M/s. Kings Marine Products and



A view of the programme

others. The discussions were mainly centered around low fish catch from Arabian Sea, market fluctuations, and delay in getting export incentives.

Mr. N. Vijayakumar, Assistant Director, MPEDA proposed the vote of thanks to mark the conclusion of the meeting.



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Exporters Meeting at Tuticorin

The Sub Regional Division of MPEDA, Tuticorin, organised a meeting of the exporters on November 21, 2019 at the MPEDA office, in which 13 exporters of chilled, frozen, dried seafood and cuttlefish

bone participated. The main issues raised during the discussion were E-stat package and cuttlefish bone export.

In a different meeting organised by

the Sub Regional Division, Tuticorin on November 14, 2019 at MPEDA office, 18 exporters of chilled, frozen, dried seafood and sea shell attended.

The main issues raised during this meeting included information to be provided under DS-2031 audit query. This also included legal harvest certificate or registration certificate. Other concerns included the failure to register processing plant with Government of Saudi Arabia for export of seafood to that country, which is a promising market for Indian seafood. Exporters were informed about the present schemes, MPEDA newsletter subscription and IISS 2020. The meeting was coordinated by Mrs. Anju, Assistant Director, MPEDA Sub Regional Office, Tuticorin.



A view of the Exporters Meeting

Exporters Meet at Kolkata

The Regional Division of MPEDA, Kolkata convened a meeting with exporters on November 21, 2019, which was attended by Mr. Rajarshi Banerjee, Vice Chairman, MPEDA and President of SEAI, Kolkata Region; Mr. Archiman Lahiri, Deputy Director; Mr. Dhirit Ekka, Assistant Director; Mr. Johnson D' Cruz, Assistant Director, Dr. Bangarama Y, Junior Technical Officer; Mr. Atanu Roy, State Coordinator, Netfish and 14 exporters from the region.

Deputy Director welcomed the gathering to mark the beginning of the programme and presented a brief overview of the present scenario of the trade from the region. Vice Chairman and President of SEAI highlighted the problems taken up with MoCI on the recent abeyance of MEIS benefit for Chapter 03 items. He highlighted the recent work done by Regional Division, Kolkata on farm

enrolment and the specific advantage for exports especially for China in coming year.

The meeting took up many specific issues related to the subject for discussion, and the missing out of certain species like scampi in the new HS code list was pointed out.

The meeting was concerned that the entire MEIS benefits pertaining to chapter 03 have been kept in abeyance right from August 01, 2019, and sought to resolve it immediately. It was also pointed out that although a very potential market, Russia often comes up with issues that were not even discussed and there are no new approvals happening at present for the Russian Federation.

Issues such as absence of MEIS benefits on exports of Chilled Shrimps and Prawns problems

faced in the issue of Cancellation Certificate for cargo that were not exported due to technical problem of flight, frozen crustacean export ban with Saudi Arabia etc.

In response to the proposal by MPEDA, exporters expressed their interest to attend the proposed Buyer-Seller meet at Digha for the development of PUD trade to EU and at Tentulia for the development of Scampi trade to EU and SE Asia.

Exporters also expressed their desire to take up HON Tiger exports with higher count and requested MPEDA to take up the proposals with farmers as was taken up last year for the development of the species trade. There was a good response for the invitation to participate in the IISS, 2020. Mr. Dhirit Ekka, Assistant Director, MPEDA proposed the vote of thanks.

Dress Code for Workers in a Kerala Fishing Harbour



Harbour workers in their new uniform poses for a group photo along with the officials

Workers in a fishing harbour in Kerala have taken up the idea of a common dress code at their work place. All harbour workers (approximately 200 of them) of Chettuva fishing harbour in Thrissur district implemented dress code in association with NETFISH, the extension wing of The Marine Products Export Development Authority (MPEDA), Ministry of Commerce and Industry, Government of India.

The workers representing different labour unions came forward to follow the dress code, which included T-shirts, track pants, hand gloves and shoes. This is the first fishing harbour in India to adopt such a dress code system. Chettuva fishing harbour, a major fishing harbour in Thrissur district, is having good landings of mackerel and sardine, especially during the monsoon period. Around 50 ring seine fishing vessels are being operated daily from this harbour. It is also notable that the dress code has introduced in October 2019, the month in which this harbour enters

into its 25th year of operation. This harbour has been upgraded last year with essential infrastructure facilities and is being operated by Harbour Engineering Department, Government of Kerala. The workers maintain this harbour neat and clean with the active participation of all unions and officials.

NETFISH conducted awareness programmes regularly among the harbour workers to sensitise them about the need and benefits of a dress code for them as part of maintaining personal hygiene while handling fish. This has resulted in a change in the mindset among them.

The new dress code system has enhanced the personnel hygiene, improved fish handling practices, working efficiency and unity among the harbour workers. Since fish is a highly perishable commodity, it is essential to keep good handling practices and better personnel hygiene by the fish handlers. Though there is better control on personnel hygiene in fish processing plants, the

situation in fishing harbours need improvements. This endeavour is a positive sign of changes in the fishing harbours which can be adopted in other harbours of the country.

The dress code system was officially launched on October 15, 2019 in a function conducted at Chettuva fishing harbour by Mr. M.S. Saju, Joint Director, Central Zone, Department of Fisheries, Kerala.

Dr. Joice V. Thomas, CEO, NETFISH presided over the function and Mr. P. N. Jyothilal, Engandiyur Grama Panchayat President, inaugurated the meeting. Ward members Mrs. Bharati, Mrs. Usha Sukumaran, officers from the Departments of Fisheries and Harbour Engineering, leaders from unions of workers and different associations in the harbour felicitated on the occasion.

Mr. Santhosh N.K., NETFISH State Coordinator, welcomed the gathering and Mr. Narayanan C.S., workers' union leader, proposed the vote of thanks.

Hands-on Training Programme on Seafood Value Addition

In order to create expertise in value-addition of seafood particularly shrimps, cephalopods and fish, a 3-day hands-on training programme on seafood value addition was organised by MPEDA, Regional Division, Veraval at the processing

and Porbandar was given by the experts from Vietnam. The objective of the programme is to create skilled trainers in the processing units and produce value-added products so as to increase the seafood export revenue by the exporters handling

advantage of value-added training programme. The training programme was attended by 27 participants.

The experts, Mrs. Mai and Mr. Tran Quoc Son imparted hands-on training on various value-added products of shrimp, squid, cuttlefish and sole fish. They demonstrated the preparation of products like Nobashi Breaded Shrimps, Fried Butterfly Shrimps, Butter fly shrimps, fish fillet, fried reefcod fillet, Butterfly breaded shrimps, Breaded Fish finger, Nobashi Shrimps, Cooked Sushi Shrimp, Breaded Blanched Squid rings, Cooked PUD Tail on Rings, Blanched Squid Pineapple Cut, Raw Squid rings, Fried Breaded Squid rings, Tempura Shrimps hygienically during the three days' training programme.

On the third day, an evaluation was conducted for the participants by



Inauguration of the programme

plant of M/s. Castlerock Fisheries Pvt. Ltd. Veraval, Gujarat from November 5-7, 2019. The training for the technicians of the seafood processing plants of Veraval

Gujarat welcomed the experts and all the participants. He appreciated the interest shown by the participants of Veraval, and Porbandar region and requested them to take the maximum



Mr. Jignesh Visavadia, SCO, NETFISH, Gujarat, delivering welcome address



Mr. Prasad, General Manager of M/s. Castlerock Fisheries Pvt Ltd, greet the experts



Mr. Tran Quoc Son, subject expert from Vietnam, addressing the session



The participants along with the experts

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the panel comprising Mr. Shrimali Vinod Kumar M, Deputy Director, MPEDA, Regional Division, Veraval and experts Mrs. Mai and Mrs. Tran Quoc Son and Mr. Jignesh Visavadia, SCO, NETFISH, Gujarat.

The panel divided the participants into five groups and were given the raw material of shrimps and cephalopods. The participants were then asked to prepare the different value-added products as taught by the Vietnamese experts during 3 days' training programme. While preparing the value-added products, the participants were assisted and guided by the Vietnamese experts.

On the successful culmination of the programme, Mr. Chandrasekhar, Manager of M/s. Castlerock Fisheries Pvt Ltd, Veraval expressed gratitude towards the MPEDA for conducting the seafood value addition training programme at their processing plant.

Mr. Shrimali Vinod Kumar M, Deputy Director, MPEDA, Regional Division, Veraval, in turn thanked the management of M/s. Castlerock Fisheries Pvt Ltd, Veraval for permitting and providing the facilities for organising the successful training programme. He also thanked Vietnamese experts and all the participants.



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Uniform for Peeling Centre Workers for Better Hygiene



Workers of P.K. Prakashan PPC Shed No 2. in full uniform

NETFISH has been conducting training classes to workers on the topics such as personnel hygiene, occupational safety, fish quality management, ice and fish handling, better handling practices in pre-processing centres etc. Thanks to these regular interventions, added with frequent discussions with the owners of the Pre-processing Centres (PPCs), NETFISH could succeed in implementing dress code at PPCs in Munambam area.

The full set uniform norm was successfully implemented in four PPCs on a cost sharing of 51 per cent by NETFISH and 49 per cent by PPC owner and workers together. The four pre-processing centres were O.K. Prathapan PPC, P.K. Prakashan PPC shed No. 1, P. K. Prakashan PPC Shed No. 2 and Aroma PPC in Munambam area. A total of 150 pre-processing workers were benefitted by this change. The uniform consists

of body dress, mouth cover, head gear, apron and gumboots.

respect and discipline among them. The PPC owners have appreciated NETFISH efforts for helping them



Workers of Aroma PPC, after the intervention

Previously, the workers were wearing their street cloth and an apron while at work and were not having any gumboots. The change to new dress code has improved the personal hygiene of workers and enhanced the self-

to bring about this positive change among the workers. The workers are also happy about having complete protective clothing making them less exposed to cold and water during work.



Stakeholders' consultation workshop on the 'Refinement of Marine Fisheries Management in Goa'



Presidential address by Mr. Asok Kumar, Deputy Director, MPEDA

The rich marine fishery resources of Indian seas are reported to be on the decline owing to climate change, added with uncontrolled fishing practices. Time has come for every marine State to take tangible measures to control the fishing pressure exerted in the nation's water resources.

Realising the grave situation, the Government of Kerala has amended the 'Kerala Marine Fisheries Regulation Act 1980' last year, encompassing effective control measures to facilitate responsible fishing practices towards achieving sustainable fishing in the sector. The measures taken by Kerala need to be emulated in other marine states as well, so as to get a collective responsibility in conserving our rich resources from further decline.

With this view, NETFISH in association with the Department of Fisheries, Goa organised a one-

day brainstorming workshop titled 'Refinement of Marine Fisheries Management in Goa state' on October 30, 2019 at the Directorate of Art and Culture, Patto, Goa. The workshop aimed to bring all the major fishery stakeholder groups, senior State Fishery officials and scientists from Fishery Research Institutes under one platform to discuss on the need of amend the existing Goa Marine Fishing Regulation Act (GMFRA) 1980.

Senior officials including Deputy Director and Assistant Directors from Department of State Fisheries of Goa, scientists from NIO, FSI and Central Coastal ICAR, Goa, Deputy Director of MPEDA Sub Regional Division, Panaji, Chief Executive of NETFISH, fishers of Mechanized and Motorized Fishing Vessel Owners Associations from all the major fish landing centres and boat owners of Chapora, Malim, Vasco, Cutbona and other places attended the workshop and actively participated in the discussions.

Inaugural Session

Ms. Siddhi Upadi welcomed the dignitaries and participants of the workshop. Mr. Anil Gawde, NGO representative, gave an introductory address on the workshop in Konkani language. The workshop was inaugurated by Mrs. Smitha Mazumdar, Deputy Director, Department of Fisheries, Goa. In her inaugural address, Mrs. Mazumdar said that fishermen needed to be improve fishing vessel tracking devices or Vessel monitoring programmes. She stressed on conservation of species and marine bio diversity while emphasising on the need of certain amendments in the Goa Marine Fishing Regulation Act 1980 in line with the amendments in the Kerala Marine Fishing Regulation Act 1980 and congratulated NETFISH-MEPDA for conducting this workshop.

Dr. Joice V. Thomas, Chief Executive,

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Discussion session

NETFISH, addressed the gathering and expressed his concern on the declining trend of marine catch for the last several years. He urged the fishers to take immediate action by all stakeholders to preserve the natural resources for sustainable fishing and livelihood for the future generation.

He requested the participants to cooperate, share their suggestions for the full use of the technical sessions. The inaugural function was presided over by Mr. Asok Kumar, Deputy Director, MPEDA, Goa.

During his presidential address, Mr. Asok Kumar said that along with the conservation, fishers should also focus on hygienic handling of the fishes on board and in fishing harbours. He advised the fishers to take benefits from MPEDA schemes for satellite phone and square mesh cod ends and wished the best wishes to workshop. Ms. Rohita Naik, Department of Fisheries, Goa and Mr. Narayana K. A., SCO, NETFISH were also present.

Technical Session

After the inaugural session, Ms. Rohita Naik, Deputy Director of Department of Fisheries, Goa did a presentation explaining the existing GMFR Act and the need to amend the trawl net cod end mesh size, fishing boat registration and fishing license fees etc. in the Act.

Dr. Joice V. Thomas, Chief Executive of NETFISH, in his presentation explained the 'Kerala Marine Fishing Regulation (Amendment) Act 2017' and 'Kerala Marine Fishing Regulation Rules 2018' with respect to fleet size, engine horsepower, gear size, mesh size, minimum legal size, setting up of Fisheries Management Council, implementation of Vessel Monitoring System (VMS) etc. to the participants.

He also said that the amendments are made as per the fishing fleet and availability of fish species in Kerala. He added, it shall not be same for Goa and hence urged to

put forward the recommendations as per the fisheries profile of Goa. Mrs. Smitha Mazumdar translated the presentation in Konkani and clarified the doubts. The presentations were followed by discussions on various regulations notified in the MFRAs. All the major stake holders recommended amending the existing GMFR Act in line with KMFR Act.

The stakeholders also suggested the Department of Fisheries, Goa to conduct regional/harbour level meetings to discuss further on the suggestions, before finalising the amendments of GMFR Act. The workshop provided an excellent platform to discuss and exchange thoughts and experiences with regard to the sector.

The feedback and suggestions provided by participants will be taken up while conducting further regional level meetings and also will be presented in the National level workshop planned later during this year.



Hands-on Training Programme on Seafood Value Addition in Visakhapatnam



Participants with the trainers

A hands-on training programme on Seafood Value Addition was conducted from November 13 to 15, 2019 at the processing plant of M/s. Sprint Exports Pvt. Ltd., in Visakhapatnam.

The purpose of the training programme was to empower the management, supervisors and workers so as to create skilled trainers to produce value-added products particularly from shrimps, cephalopods and fish. This step is expected to increase the export share of value-added sea food from country.

The training programme started with an inaugural address by Mr. M. Shaji, Deputy Director, Regional Division of MPEDA, Vizag. He welcomed the foreign experts Mr. Tran Quoc Son and Mrs. Chu Thi Tuyet Mai

from Vietnam, and all the other participants.

In his inaugural address, Mr. Shaji highlighted the importance of ingredients used in value-addition of seafood products and packing material used. He said that the additives or ingredients used will improve the taste, texture, nutritional quality and appearance need for end-consumer.

Mr. Tran Quoc Son and Mrs. Chu Thi Tuyet Mai from Vietnam advised to practice more for preparing value-added products manually instead of using automatic machinery so as to get more yield and value.

In his address, Mr. R. Prasad Naik, Assistant Director, Regional Division, Vizag, emphasised on the export trend and share of value-added

products from Andhra Pradesh. The share of value-added products exported from Andhra Pradesh in comparison to the total export of India is approximately 20.47 per cent in quantity and 21.11 per cent in value. The training programme was attended by 26 participants, After the inaugural function, the trainers and participants taken to the processing plant for demonstration of product preparation.

During the three days of hands-on training, value-added products like Nobashi Shrimp (Stretched Shrimp), Battered and Breaded Nobashi Shrimp, Butterfly Sushi Shrimp, Battered and Breaded Butterfly Sushi Shrimp, Tempura Shrimp, Cooked PTO Ring Shrimp, Breaded Fish Fillet, Battered and Breaded Fish Finger, Pineapple Cut Cuttlefish, Mongo Bannous Sashimi (Sushi Cuttlefish),

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Different Value-Added Products prepared during the programme

Breaded Squid Rings and Blanched Squid were prepared.

Evaluation of participants was done on last day of training by Mr. Tran Quoc Son, Mrs. Chu Thi Tuyet Mai, Mr. Shaji and Mr. Prasad Naik. The entire batch of participants were divided into group of three and each group was asked to prepare Battered and Breaded Butterfly Shrimp product based on which their evaluation was

done. The valedictory session of the training programme was chaired by Mr. G. Pawan Kumar, Managing Director of M/s. Sprint Exports Pvt. Ltd, and also the Secretary of Seafood Export Association of India, Andhra Pradesh region.

He suggested all the participants should practice, prepare and standardise any value-added product in their own units. Mr. M. Shaji,

Deputy Director, MPEDA thanked the trainers, participants, management of M/s. Sprint Exports Pvt. Ltd. and others associated for making the event a success. The feedback forms distributed among the participants brought up suggestions like increasing the duration of the training period, adding crab dishes in the value-addition training programmes and organising training programmes on packing technology too.



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Consultative Workshops on “The Refinement of Marine Fisheries Management in Tamil Nadu”

The rich marine fishery resources of Indian seas are reported to be in declining path owing to climate change, with the situation compounded with uncontrolled fishing practices.

Time has come that every marine States has to take tangible measures to control the fishing pressure exerted in our waters. Realising the grave situation, the Government of Kerala has amended the ‘Kerala Marine Fisheries Regulation Act 1980’ last year, encompassing effective control measures to facilitate responsible fishing practices towards achieving sustainable fishing in the sector. The measures taken by Kerala need to be emulated in other marine States as well, so as to get a collective responsibility in conserving our rich resources from further decline.

With the view to generate awareness among the stakeholders about the need of amendments in Tamil Nadu Marine Fisheries Regulation Act as well as to sensitize the State Fisheries to take initiation for amending the Act, two consultative workshops were organized by NETFISH in association with the Department of Fisheries of Tamil Nadu in November 2019. The National Fisheries Development Board (under the Government of India), Hyderabad has given financial assistance for organising these workshops. A good number of stakeholders were turned out for the workshops and they had given their views and extended support for amending the TNMFRA.

The first workshop in this line in

Tamil Nadu was held on November 14, 2019 at Chennai in the conference hall of the office of Department of Fisheries, Chennai. Mr. A. Jeyabal, Deputy Director, MPEDA Regional

the fisheries department and said that it is the foremost responsibility of the fishing community to maintain the fishery infrastructures neat and tidy. Dr. G. S. Sameeran, IAS, Director of



Dr. P. Velayudham, Dean –in- Charge, FCRI, inaugurates the workshop at Tuticorin

Division, Chennai, welcomed the gathering and in his speech, he briefed about the importance of fisheries management and fish quality management. He narrated the aim and activities of NETFISH in Tamil Nadu as well as all along the coastal States of India.

Mr. G. Arumugam, Additional Director of Fisheries (Marine), Government of Tamil Nadu explained the developments brought about by

Fisheries, Government of Tamil Nadu, inaugurated the workshop and he said that fisheries department, fishery scientists, NGOs and others should work together for the sustainability of fisheries and the livelihood of fishing community. He has pointed out that unless and otherwise fishermen unite and oppose the harmful fishing practices, sustainability could not be attained. Mrs. S. Noorjahan Beevi, Additional Director of Fisheries (FIMSUL) Department,

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Presentation on KMFR Act by Dr. Joice V. Thomas, Chief Executive, NETFISH

said that the active participation of fishermen representatives and their valuable suggestions are very important in formulating a better fishing regulation in Tamil Nadu. The workshop received overwhelming response from the fishing community as more than 120 members from Thiruvallur district to Thiruvarur district of Tamil Nadu participated in the event.

The second workshop in Tamil Nadu was held on November 27, 2019 in Tuticorin at the Fisheries College and Research Institute, Tuticorin. The workshop was inaugurated by Dr. P. Velayudham, Dean-in-Charge, Fisheries College and Research Institute, Tuticorin. Mrs. N. Chandra, Joint Director of Fisheries, welcomed the audience and Dr. Joice V Thomas, Chief Executive, NETFISH, presided over.

Mrs. Anju, Assistant Director, MPEDA, Tuticorin; Dr. Ranjit, Scientist, CMFRI, Regional Centre, Tuticorin; Dr. Neethiselvan, Dr. David Kingston, Professor and Head, FC & RI and

Capt. Vishvanathan, Dean, College of Nautical Science and Engineering, felicitated the workshop. About 130 participants including fishermen, union leaders, stakeholders from Puthukottai, Tanjavur, Ramnad, Tuticorin, Tirunelveli and Kanyakumari attended the workshop.

Mrs. N. Chandra, Joint Director of Fisheries (Regional) and Dr. Vinoth S. Ravindran, State Coordinator NETFISH-MPEDA, were the conveners of the event and the event was coordinated by Mrs. V. Prabhavathi, Deputy Director, Fisheries, Ramnad; Mrs. R. Sharmila, Deputy Director, Fisheries, Trichy; Mr. T. Elamvazhuthi, Deputy Director, Fisheries, Kanyakumari and Dr. N. Neethiselvan, Professor and Head, Fishing Technology and Fisheries Engineering, Fisheries College and Research Institute, Tuticorin.

In both the workshops, two presentations were made during the technical session. A presentation on Tamil Nadu Marine Fisheries Regulation Act of 1983 in force

was delivered by the official from Department of Fisheries and the amendments made in KMFR Act was presented by Dr. Joice V. Thomas, Chief Executive, NETFISH. Each and every provision of KMFR Act – starting from colour code and other details like registration of vessels, fishing license, fishing gears, mesh size, registration fees, fishing yards, net factory, etc. – were explained by Dr. Thomas. He explained about the recent regulations regarding the minimum legal size for 58 marine species under the KMFR Act. He also explained the campaign carried out by NETFISH to popularise square mesh cod ends in trawl nets and thus to promote responsible fishing practice.

After presenting both the MFRAs, the session was opened for discussion in which the representatives of various stakeholder groups actively participated. The proposed amendments to be made in the TNMFR Act for sustainable fishing were deliberated upon intensively before summarising them.



Hands-on training programme on Seafood Value-addition



A view of the participants

The Government of India has envisioned doubling the export of seafood export and this can be achieved best through value addition. MPEDA organised a series of hands-on training programmes engaging experts from Vietnam towards achieving this goal.

Seafood value-addition necessitates skilled manpower, and hence with the objective to create skilled trainers of seafood value-addition in the processing units the training programme was taken up.

MPEDA, Regional Division, Chennai organised three days' hands-on training programme on seafood value-addition" from November 17 to 19, 2019 at M/s. Sagar Grandhi Exports Pvt Ltd., Kota, Nellore district. The programme was for the benefit of seafood processing plant supervisors and production staff.

The training programme was inaugurated by Mr. Vijaykumar C. Yaragal, Joint Director, MPEDA Regional Division, Vijaywada. In his inaugural address, Mr. Vijaykumar Yaragal stressed on the importance of

value-addition in seafood and urged the trainees who have come to attend the training programme to learn the skills involved in the production of various value added-seafood products from the experts. He highlighted the fact that exporter will be confident to go for value-addition only when the production staff has the necessary skills.

Mr. A Jeyabal, Deputy Director, Regional Division, Chennai, in his address echoed the importance of value-addition in seafood. Mr. Krishnan, General Manager, M/s. Sagar Grandhi Exports Pvt Ltd. narrated his experience in the seafood value-addition. He mentioned that imitation seafood products such as crab claw meat etc, produced from the economically low value fish could fetch high value. Dr. Biju V.N., Assistant Director, Regional Division, Chennai, proposed vote of thanks.

Mr. Chella Rao Grandhi, Director, M/s. Sagar Grandhi Exports Pvt Ltd., during the valedictory function explained the struggle faced by his company to stabilize the production of Nobashi shrimp and to meet the prescribed quality standards. The participants of the programme trained on production of 27 value-added seafood products including tray-packed Tempura shrimp, Nobashi shrimp, Nobashi shrimp battered, Nobashi shrimp breaded, Nobashi shrimp fried, Sushi shrimp, butterfly sushi shrimp and various types of packing of sushi shrimp, cooked PTO ring shrimp, battered butterfly shrimp, breaded butterfly shrimp, fried butterfly shrimp, sushi pineapple cut cuttlefish, squid rings, squid rings blanched, squid rings battered, squid rings breaded, squid rings fried, fish fillet, fish fillet



A view of the session

battered, fish fillet breaded, fish fillet fried, fish finger, fish finger battered, fish finger breaded, fish finger fried. The trainees were evaluated at the end of training programme.

The programme was attended by 27 participants from the seafood industry.



The 4th Pillay Aquaculture Foundation Congress

ICAR-CIFA (Central Institute of Freshwater Aquaculture), Bhubaneswar, in association with Pillay Aquaculture Foundation (PAF) and Association of Aquaculturists (AoA), Bhubaneswar, organised the Fourth PAF Congress on increasing aquaculture production in India through synergistic approach between multinational industries, domestic entrepreneurs and aquaculturists from November 15 to 17, 2019 in the campus of CIFA in Bhubaneswar, Odisha.



A view of the MPEDA stall

The theme of the Fourth PAF Congress was “Increasing Indian aquaculture production through synergistic approaches between multinational industries and domestic entrepreneurs and aquaculturists”.

The Pillay Aquaculture Foundation (PAF) has been established in commemoration of the great aquaculture legend Dr. T.V.R. Pillay and it has facilitated policy dialogue on environmentally and socially sound aquaculture for food security and poverty alleviation, since its formation. With the involvement of

multinationals in production supply chain including retails, there are concerns on the potential impact that can happen on both small and large domestic producers. The congress was inaugurated by Mr. Pratap Chandra Sarangi, Minister of State, Animal Husbandry, Dairying and Fisheries and Micro, Small and Medium Enterprises, Government of India. The Minister in his address called for concerted efforts in making aquaculture profitable by strengthening value chain in the sector. He urged all the stakeholders both private and public

to come together and contribute towards doubling farmers’ income by 2022. He praised CIFA and other stakeholders for developing innovative technologies and services and at the same time underscored the need to transfer the knowhow to the farmers. Other dignitaries present during the inauguration were Dr. J.K. Jena, Deputy Director General (Fishery Science and Animal Science), ICAR, New Delhi; Dr. P.K. Agrawal, Vice Chancellor, Orissa University of Agriculture and Technology (OUAT); Dr. Huang Jie, Director General of Network of Aquaculture Centres in

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Mr. U. C. Mohapatra, Deputy Director, MPEDA Regional Division, Bhubaneswar delivering a talk at PAF Congress

Asia-Pacific (NACA); Dr. Bindhu R. Pillai, Director, ICAR-CIFA; Mr. R. Raghu Prasad, Commissioner and Secretary, Fisheries and Animal Resources Development Department, Odisha; Dr. P. Keshavanath, Secretary, PAF and Dr. P. Routray, Secretary, AoA. A number of publications including souvenir, book of abstracts, Neelitima and CIFABROOD were released by the dignitaries along with a prototype of FRP Pabda hatchery. The Minister also felicitated ten innovative farmers/entrepreneurs for their exemplary accomplishment

in aquaculture. Two mobile apps IndAqua and TreatmyFish, developed in Odia, Hindi and English were released. The congress had five technical sessions in three days.

The first session was on the present status and possibilities of enhancement of national aquaculture production, national efforts and investment, R&D and institutional support and the second session was on Indian government's aquaculture policy and multinational role in achieving the national goal of the

aquaculture sector.

The third session explored the options to go forward for aquaculture scientist, farmer, entrepreneur, industry and the banker interface, while the fourth session dealt with ethics and environmental issues in aquaculture. The final and fifth session discussed the business models to increase the competitiveness of small and medium sized players vis-à-vis multinational players.

MPEDA, Regional Division Bhubaneswar participated in the Congress by putting up a stall exhibiting various activities of MPEDA and officers of the division attended the technical sessions. Mr. U. C. Mohapatra, Deputy Director delivered a talk on "increasing seafood exports - MPEDA initiative" on the second day of the congress. The Minister along with other dignitaries visited MPEDA stall where they were explained on the activities of MPEDA. Farmers and entrepreneurs and participants also visited MPEDA stall on all the days.



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Success Stories of Aquaculture Farmers

From development assistance to start-up enterprise

Mr. Apurba Saha
West Bengal



On the quest for viable locations to set up organic shrimp aquaculture, in 2012 entrepreneur Peter Ristic, Quality Manager Jutta Wanka (both Ristic GmbH) and organic aquaculture expert Udo Censkowsky (Bluesensus GmbH) visited potential project sites in India. According to selection criteria, including particularly extensive aquaculture production processes, sufficient distance to intensive (conventional) aquaculture production sites, excellent soil and

water conditions and social aspects viable locations were identified. Correspondingly, a suitable environment was found in West-Bengal, close to the Bangladesh border, in a region where Black Tiger Shrimp (*Penaeus monodon*) have been produced for more than 30 years.

A project concept was drafted and presented to various business partners of Ristic GmbH, and the first to become involved in the project was the Austrian retailer HOFER KG, who integrated the project into their company-run sustainability programme 'Project 2020' and won the Austrian Development Agency as a partner.

Starting off with a small project team consisting of Apurba Saha as local project manager, training of a group of farmers and subsequent transition to organic aquaculture production and the successful award of the first organic certification through the Swiss Institute for Market Ecology

(IMO Swiss) was achieved in 2015. Later, in 2017, Blue Sea Aquaculture Private Limited was founded by Apurba Saha took over the project from HOFER KG.

On the basis of this extensive study, an action plan was jointly produced and gradually implemented with affected farmers, farm workers and their families. The activities included the setting up of sanitary facilities on the farms, the construction of a drinking water supply well for the local fish market, the planting over 1000 trees (Banana, Coconut, Guava and Neem) close to farmland areas, the implementation of measures to counter the intrusion of shrimp-eating fish species, experiments with Bokashi (a fermented organic fertilizer with probiotic effects) and the illumination of farm units with solar lamps. First-aid courses were organised in cooperation with the Red Cross. Blue Sea Aquaculture has introduced Integrated Mangrove Aquaculture to maintain biodiversity,



AQUACULTURE SCENE

enhance soil and water conditions and last but not least to reduce the carbon footprint of the shrimp production.

Since the first business cycle in 2017, not only could the export volume be augmented significantly but also the foundations could be laid to maintain the social benefits envisioned and gained already within the initial HOFER project. The firm objective is to secure medical provision for farmers, farm workers and their families in 2018. To achieve this, together with the shrimp farmers, Alcom Exim (SHORE group's representation in India) and SHORE, Blue Sea Aquaculture finances regular doctor visits that benefit particularly farm workers and their families.

The Company currently has its major exports to EU, but aims to initiate the foundation of a domestic market for organic seafood in India.

Worldwide, India has the largest number of organic farmers, most of them are focusing on export markets. However, the domestic market for organic food in India is in an infant stage but has the potential to grow significantly.



Harvested tiger shrimp

Key characteristics WTBT-Project (2018)

✔ Project Execution Organisation	: Blue Sea Aquaculture Private Ltd.
✔ Region	: District 24 th North Parganas (West Bengal)
✔ Producer	: 3 Bio-Cluster with 1532 ha pond area in total
✔ Number of farmers	: 31
✔ Production System	: Traditional Low-Input poly-culture without feeding
✔ Organic Larvae-stock	: 4-6 post-larvae/m ³
✔ Harvesting Procedure	: Harvest (and stocking) at new and full moons
✔ Yield	: 350-450 kg/ha prawns or roughly 500 t / year
✔ EU-Organic-Certification	: Since 2015 until today
✔ Naturland Certification	: For the first time in 2017



Inspiring Shrimp Farmers With Scientific Farming

Mr. Vinukuttan
Munrothuruthu, Kollam, Kerala

Mr. Vinukuttan, Lakshmi Nivas, Kidappuram North, Perungalam, is one of the leading farmers from Mundrothuruth village of Kollam district in Kerala. He started his shrimp farming in early 1993. During initial stages, he practised traditional method of operation. Later on, he improved his farming practice by adopting better management practice and now become a successful scientific farmer. Before starting the crop, he follows all precautionary steps to overcome the issues related to biosecurity. Proper fencing, both crab and bird fencing, is erected to address the biosecurity. Proper pond preparation and water culture methods are adopted before the culture. He used to give more importance for selection of shrimp hatchery for getting quality seeds. Last year, he purchased tiger shrimp seeds from MAC, Vallarpadam. He stocked one lakh seed from RGCA and did 134 days culture in the pond. During culture period, he maintained water quality properly and able to harvest 2.72 MT of Tiger shrimp.

Mr. Vinukkuttan was able to produce 2.7 MT from 0.65 Ha (@4.15 MT/Ha) even in Kerala conditions. He has become an inspiration for other Black Tiger farmers in Kerala. He was honoured by MPEDA as the best scientific Black Tiger shrimp farmer during AAI 2019, Hyderabad.



Farmer grading the harvested shrimp

Culture Details

- ✔ Total number of seeds stocked: 1,00,000
- ✔ Source of seed: RGCA
- ✔ Date of stocking: February 14, 2019
- ✔ Date of harvest: June 28, 2019
- ✔ Total days of culture: 134 days
- ✔ Total quantity harvested: 2,720 kgs
- ✔ Average size at harvest: 50 gm
- ✔ Total quantity of feed: 3,560
- ✔ FCR: 1:1.3



Focus on Water Treatment as a Key to Bring Down Production Cost

Mr. Sekhar Rao Sankineni
Thikkavaram, Gudur, AP



But later, he given more emphasis on water quality treatment and he increased his reservoir area to 4.23 Ha and culture area reduced to 13.4 Ha (19 ponds). He converted one of his big ponds in to a highly bio secured lined nursery, and the nursery rearing for 30-40 days became given an excellent opportunity to increase the success percentage of his farming operations. He could also able to achieve a daily growth rate from 0.15 gram to 0.35 gram and also could able to bring down the early production of cost of Rs. 270 to less than Rs. 250

for the farming operations since 2016. Presently, he is giving 30 per cent concentration on his nursery operation and remaining 70 per cent for his culture management and the rearing PLs to 2-4 gram given a chance to go for 2 crops in a year. He has also placed automatic feeders, sludge pumps, shrimp toilets, crab and bird fencing etc in his farm and he suggests that at least 30 per cent of the farm area should be marked out for water treatment as most of the present disease issues are water borne. His farm is BAP certified.

Mr. S. Sekhar Rao received the best innovative *vannamei* farmer award and his farm is located at Bestapalem, Gudur, Nellore district of Andhra Pradesh. He is having 40 acres of *vannamei* farm with state-of-the-art facility and having 25 years' experience in shrimp farming. Till 2015, he was facing several setbacks in his farming operations. From 2016 onwards, he implemented smart farm concept supported by CP Group. After that he could able to bring down the production cost as well as able to maintain a sustainable crop. In his earlier operation, he was utilising only 2.3 ha for water treating and 17.5 ha for farming operation (20 ponds).



A view of the farm of Mr. S. Sekhar Rao

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Inspiring Journey of a Science Graduate from Carp Culturist to GIFT Consultant

Mr. Saurav Kumar Biswal
Tulang Jagatsinghpur, Odisha



Mr. Sourab Kumar Biswal from Jagatsinghpur district, Odisha produces successful crops of Tilapia @ 10 MT/Ha/ Crop during the last three years. He successfully carries out GIFT culture and supervising GIFT ponds under World Fish Project, and for his contributions, Mr. Biswal was adjudged as best Tilapia farmer by MPEDA during AAI 2019 at Hyderabad.

A pond of water spread area of 1.0 Ha in his 6.8 Ha farm was selected for carrying out GIFT culture demonstration, the site being ideal with road accessibility, electrification with own 25 KVA transformer, one 7.5 KVA DG set, aerators and pumps and being run by an experienced farmer.

Mr. Saurava Kumar Biswal is an active aquaculture entrepreneur, whose career profile progressed from that of an active aquaculture farmer to that of a Consultant for the project of Malaysia based World Fish Center in Odisha launched by the Department of Fisheries, Government of Odisha. Mr. Biswal had been active in the culture of Indian Major Carp (IMC) for a decade and a half and had once tried farming of *Penaeus vannamei*. In 2016, he was engaged with the field demonstration programme on the culture of GIFT proposed by the Regional Division of MPEDA, Bhubaneswar.

During the second week of August 2016, 16000 high quality selectively breed GIFT (Breed of World Fish Center, Malaysia) all male seeds were procured from RGCA Tilapia Project at Manikonda, Kankipadu Mandal, Krishna district, Andhra Pradesh, and were stocked in happas (8 of them).

The fishes after releasing to pond were fed with formulated floating pellet feed with 30 per cent protein and finally with 24-26 per cent protein. The fishes were fed twice a day. At the end of eight months, total of 9168 kgs of GIFT fishes with an average body weight of 750 grams (Survival 76.40 per cent) was harvested. Mr. Biswal emerged as

an icon of successful GIFT farmer in Odisha, which is blessed with abundant freshwater and brackish water resources.

He showed his excellence in marketing the produce by associating with Falcon Chilika Fresh outlets, which are operating in Bhubaneswar city. When he was appointed officially as a Consultant for the World Fish project in Odisha in association with State Department of Fisheries, Mr. Biswal took it as a self-educating platform to learn from the experiences, involvement in these activities and interaction with the technical officers of various organisations and different farmer groups.



Scripting a Success Story with Seabass Culture

**Mr. Seshayya P
Utukuru, Nellore, AP**

Palepu Seshaiyah, who received innovative farmer award for seabass culture from MPEDA during AAI 2019, was doing shrimp for the past several years. After attending training programme on Asian seabass aquaculture at RGCA, he changed his farming activities to Asian Seabass, *Lates calcarifer*. He procures seabass fingerlings from RGCA seabass hatchery and initially does nursery rearing in cages for two months by feeding with floating pellet feed and frequent grading. Once the animal reach 50-60 grams, it will be released to the open pond @ 2500 number per acre. First year the animal reached around 2 kg size and in the second year it reached an average weight of 5 kg. In the open pond feeding was only with live tilapia and rarely frozen chopped

tilapia. Mr. Seshaiyah is successfully harvested around 17 ton from his



Mr. P. Seshaiyah in his farm

carrying out Seabass culture for the last 4 years, and in the last crop he

2-acre pond and could able to get a net profit of Rs. 44 lakhs.



Setting New Standards in Open Water Cage Farming

Mr. Jenson
Puthenvelikkara, Thrissur, Kerala



Mr. Jenson monitoring the growth of fishes

Mr. Anthappan P.D. alias Jenson is young an aquaculturist from Thrissur, Kerala engaged in cage farming in open water. He is doing his cage farming at Thuruthipuram back waters of Puthenvelikkara village

in Ernakulam district. He started the farming in 2013 by erecting small cages in the open water and cultured Pearl spot. Later on, he improved his culture technology and started doing commercial fishes like Seabass, Red snapper, Silver pompano etc. In

2019, MPEDA Regional Division had selected him as a beneficiary for doing aquaculture demonstration on Cobia. 450 fish fingerlings having a size of 200 gm were brought from MPEDA - RGCA, Marine fin fish hatchery, Pozhizhoor on March 12, 2019. Fishes were fed with trash fishes. 505 kg Cobia fishes were harvested on July 21, 2019 with 131 days of culture and a survival of 99 per cent.

Mr. Jenson is successfully carrying out open water cage culture of fin fishes like Seabass, Grouper, Pearl spot, Red snapper etc. Recently carried out successful open water cage culture of Cobia, the first commercial scale Cage culture of Cobia, and for his efforts in open water cage farming of finfish was recognised by MPEDA in the Aqua Aquaria India 2019, Hyderabad. 🐟



View of Cobia culture cages

An Innovative Successful Tide-fed Flow Through Culture System Designed for Asian Seabass Culture

Mr. Ilanchelian K
Pulianthurai, Nagapattinam District, Tamil Nadu

In the past three decades, the shrimp farming was practised all along the coastal area but only shrimp was the candidate species under culture. After the outbreak of viral diseases and steep raise of input cost many farmers started searching for the alternative to shrimp. Many of them selected sea bass (*Lates calcarifer*) and mud crab (*Scylla serrata*), but unfortunately both are carnivore and highly cannibalistic by nature. Most of the farmers used the same pump fed culture system designed for shrimp farming. That system providing high water exchange and maintaining optimum level of physicochemical parameters proved to be quite expensive and so profit margin was very minimum. So, the search for a different model to reduce the production cost was on.

In this present model adopted by Mr. Ilanchelian in his farm near Pulianthurai in Nagapattinam District of Tamilnadu, only tidal flow is used for water exchange and maintaining water quality parameters (minimum 40-50 cm water/day in spring tide days and 25-35 cm during neap tide days twice daily for this the combined inlet and outlet sluice gates with swing doors and filter frames are used).

The site is in the Cuddalore to Nagapattinam coast of Tamilnadu where the tidal level difference is only 30-50 centimetres. In northern

states as tidal level difference increases the rate of exchange will increase. This means, high stocking density and biomass in the unit area can be maintained.

Mr. Ilamchelian is engaged in aquaculture for the last 30 years. He is successfully carrying out Crab and Seabass culture in a tide-fed flow through system without using any power. The crab pond has flow through canals planted with mangroves along the bunds. He is successful in carrying out culture of both Crab and Seabass. This tide-fed farming system and previous project was recognised by Tamil Nadu fisheries University as innovative one in 2014. Mr. Ilamchelian was honoured by MPEDA in AAI 2019 as the best Mud Crab farmer.

Details of this farming system are: Sea bass seed of 3-4 cm size (7000 number) was purchased from RGCA hatchery Sirkali. First stocked in the nursery fed with seabass feed formulated and manufactured by nutrition division of CIBA Chennai. Maintained up to 100 days from



A view of the farm

1st July 1918 to 10th October and periodic grading was done. After 100 days 3 size ranges were separated

1. 80-120 grams: 2156
2. 60-80 grams: 3965
3. 30-60 grams: 914

Zigzag canals in the ponds were partitioned into 3 compartments and each size range was stocked in separate compartments and fed with Unipresident marine floating fish feed and cultured for 260 days and harvested.





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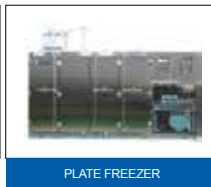


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Campaign against use of banned antibiotics in Aquaculture

MPEDA Regional Division, Kolkata and National centre for Sustainable Aquaculture (NaCSA) organised a campaign against use of banned antibiotics in aquaculture at Kanmari and Bermajur, Sandeshkhali, North 24 Parganas District on November 22, 2019. The main objective was to educate the farmers on ill-effects of banned antibiotics in aqua culture. They were also given a class on diversification of species in aquaculture. The programme was attended by 21 farmers in Kanmari and 18 farmers in Bermajur.

Various topics and lectures related to the subject were handled by Mr. Johnson D'Cruz, Assistant Director and Mr. Pradip Maity, Field Manager, NaCSA. Posters on the subjects were used as teaching aids at the programme.



Mr. Johnson D' Cruz, Assistant Director, MPEDA interacting with aqua farmers

Awareness campaign on Diversification in Aquaculture

In order to promote diversified export-oriented aquaculture, a programme on diversification in aquaculture was conducted in Haldipur village of Uttar Kannada district on November 18, 2019. The programme was organised by the MPEDA Sub Regional Division, Karwar.

Mr. Sheshendra Shirodkar, Junior Technical Officer explained to the participants how to diversify their culture with species having export potential such as Tilapia, Mud crab, Seabass etc. Culture aspects of these species, ranging from stocking, grow-out management to harvesting, were also explained.

He also talked about the RGCA Training Centre and the availability seeds of different species, besides giving a brief overview on the

enrollment procedure of MPEDA and its financial assistance scheme. As many as 21 stakeholders attended the programme.



Campaign underway at Haldipur village, Honnavar

Awareness campaigns on misuse of antibiotics in aquaculture

With the consignments of Indian aquaculture shrimps getting rejected during export due to presence of residue of banned antibiotics, the need to improve export quality material has been felt like never before. To address this issue, the Sub Regional Division of MPEDA at Karwar is conducting field-level programmes in aquaculture areas every month to make more and more farmers aware about banned antibiotics used in aquaculture.

The Division organised three campaigns in November 2019 on misuse of antibiotics. Two programmes were in Harwada and Poojgeri villages in Ankola on November 14, 2019, which were attended by 28 and 11 participants respectively. Another programme on the same subject was held at Karki in Uttar Kannada district on November 18, 2019, in which 18 people attended.



Participants at Belamber village, Ankola

Mr. Sheshendra Shirodkar, Junior Technical Officer explained how the antibiotics issue can cause problems and adversely affects export potential. He also talked about concepts like eco-friendly and sustainable shrimp

farming as well as biosecurity and Best Management Practices.

Details of the banned antibiotics were displayed at the venues for better understanding for the participants.

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Training programme on Eco-friendly and Sustainable Aquaculture

MPEDA Regional Division, Kolkata conducted two training programmes for 3 days from November 26 to 28, 2019 on 'Eco Friendly and Sustainable Aquaculture' for the benefit of farmers at Rajendrapur, Basirhat-II, North 24 Parganas district. The main objective was to educate the farmers on adoption of farming methods to practice eco-friendly and sustainable aquaculture with special emphasis on diversification. As many as 43 candidates registered for the two training programmes on November 28, 2019.



View of the training

This programme was inaugurated by Dr. Y. Bangaramma, Junior Technical Officer, MPEDA, Regional Division, Kolkata. Besides Dr. Bangaramma, Mr. Johnson D'Cruz, Assistant Director and Mr. Archiman Lahiri, Deputy Director, MPEDA Regional Division, Kolkata; Mr. Pradip Maity,

Field Manager, NaCSA; Mr. Mithun Sarkar Field Extension Officer, Basirhat-II; Mr. Gaurav Barman, Fisheries Field Assistant, Basirhat-II and Mr. Koushik Deb, Manager, IFB Agro Private Limited, North 24 Parganas District led the sessions on various topics related to the

subject during the three-day training programme. On the last day, detailed discussions were held to clear the doubts participants. The participants were given certificates and stipend by Mr. Archiman Lahiri, Deputy Director, MPEDA Regional Division, Kolkata.

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HACCP training programme at Bhimavaram



A view of the participants of training programme

MPEDA Sub Regional Division Bhimavaram organised a four-day training programme on Seafood HACCP (Basic) from November 26 to 29, 2019. This training programme was organised for the benefit of the technologist, plant managers and supervisors working in the seafood processing plant of this region. The programme was attended by 30 candidates working in processing plant spread across West Godavari, East Godavari, and Krishna district of Andhra Pradesh.

The programme started with an inaugural session on November 26, 2019, with Mr. V.I. Hakkim, Deputy Director, Sub Regional Division of MPEDA, Bhimavaram welcoming the participants to the training programme. He briefed about the present status of implementation of HACCP in seafood industry and urged all participants to use the platform to effectively implement HACCP for resolving various food safety issues including the antibiotics.

The programme was inaugurated by Dr. I. Suryarao, National committee member SEAI and Managing Director

of M/s. Suryamitra Exim Pvt. Ltd., Bhimavaram. He emphasised on the need of implementing HACCP in the seafood processing industry and appreciated the efforts taken by MPEDA for organising the programme. Mr. V. Vinod, Deputy Director (QC), gave a brief introduction on HACCP. Dr. K. Pau Biak Lun Assistant Director, Sub Regional Division, Bhimavaram, proposed the vote of thanks during the inaugural session.

The first session of the training programme covered topics like Introduction to HACCP, Pre-requisite programmes and Preliminary steps, CGMP and SSOP.

The first day concluded with a work session on SSOP. The second day covered topics like Hazards, Hazard Analysis and Control Measures, Critical Control Point, Critical limit, CCP monitoring, Corrective action and concluded with a work session taken on the second day. Third day covered topics like verification, record keeping, US Seafood regulation, National standards/EU regulations, Traceability and finally work session concluded with the

sessions discussed during that day. On last day of the programme topics like HACCP Plan development and guidelines for preparation of HACCP manual, presentation of SSOP, HAW and HACCP Plan by four different group representatives among participants on specified products were taken up. The issues in the presentation were thoroughly discussed and the suggestions of the faculties were incorporated to the final recommendations. An examination was also conducted on the basis of the session undertaken by the faculties during the training programme. The feedback also was collected from all participants. The questions raised by the participants were answered by the faculties.

The four-day training programme on Seafood HACCP ended with a valedictory function where certificates were distributed to the candidates who completed the training programme. The faculty members for the programme were Mr. V. Vinod, Deputy Director (QC), Mr. Vaniya Kishor Kumar, Technical Officer (QC) and Dr. (Mrs.) Biji K.B. Junior Technical Officer (QC).

MPEDA to impose moratorium on new fish meal units from New Year

Aquaculture utilises about 45 per cent of global fish meal production. In its efforts to curb over exploitation of food fish resources, the Marine Products Export Development Authority has decided to come out with a moratorium on the registration of new fish meal and fish oil units with effect from January 1, 2020.

It was also decided to extend the moratorium on enhancement of production capacity by existing fish meal units.

Fish meal and fish oil are the major ingredients for aquatic feed manufacturing and aquaculture utilises about 45 per cent of global fish meal production.

Mr. K. S. Srinivas, Chairman, MPEDA told BusinessLine that the unabated

juvenile fishing especially for fish meal and fish oil production has become a major concern. This has resulted in stagnating catches of commercially important species and risk the depletion of the food fish resources from the marine capture sector. It has also posed a danger to the livelihood of fishermen and the availability of human protein source from sea catch.

“Hence, it has become the need of the hour to take effective measures towards sustainable development of fisheries and to curtail activities that directly or indirectly promote over exploitation of marine fishery resources,” he said.

Senior officials in MPEDA pointed out that increased demand for aquaculture feed mills with the exponential increase in Vannamei

shrimp production has propelled mushrooming of fish meal and fish oil factories in India over a decade.

The paucity of sea catch in required sizes and quantities also affected the economic viability of the processing units and handling centres that primarily depend on marine fishery resources. The stakeholders and researchers across the seafood sector have voiced their concern over the non-judicious exploitation of food fishes for aqua feed, the officials added.

There are about 56 fish meal industrial units in Kerala, Maharashtra, Karnataka and Tamil Nadu and the units together have a turnover of Rs. 1750 crore with an annual production of 2.50 lakh tons, industry sources said.

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ICAR-CIBA signed MoU with M/s. Raj Hatcheries, Pvt. Ltd. West Bengal



ICAR-Central Institute of Brackishwater Aquaculture signed MoU with Raj Hatcheries (Bengal) Pvt. Ltd., East Midnapur district, West Bengal on September 17, 2019 for transfer of milkfish (*Chanos chanos*) hatchery technology and to set up a state-of-the-art finfish hatchery in West Bengal. Milkfish is a fast-growing, euryhaline and herbivorous brackishwater food fish can be farmed in fresh, brackish and marine waters. CIBA achieved a breakthrough in the breeding of milkfish in captivity in 2015, and subsequently perfected the hatchery seed production and farming technologies. Considering the demand and preference for milkfish by local population in West Bengal, CIBA has already been taking efforts to popularise milkfish as 'Decan Hilsa' in West Bengal, which has been well accepted by the local population, where the farmed fish obtained a profit margin of Rs 60-100 per kg of fish. A value chain has been already established, through the farming of milkfish in West Bengal using hatchery-produced milkfish seed from CIBA's experimental finfish hatchery at Muttukadu, Chennai. West Bengal is vested

with 4,000,00 ha of brackishwater resources, which offers tremendous opportunity to undertake milkfish farming, and thereby increasing the fish production.

Technology support under this MoU covers, broodstock development in captivity, induced breeding, seed production and rearing. According to the agreement the technical assistance will be given in two phases. In first phase hatchery produced fertilized eggs of milkfish from CIBA hatchery will be given to client for further rearing to produce stockable size milkfish seeds. Simultaneously sub adults of milkfish will be obtained from farms and wild to build the broodstock to start the second phase followed by hatchery production of milkfish seeds in West Bengal. This joint effort by CIBA and Raj Hatcheries would be able to provide quality milkfish seeds round the year in West Bengal and neighbouring states. This is also expected to provide the livelihood support to the fisher folks and coastal population.

The MoU was signed at CIBA headquarters in the presence of Dr. K.

K. Vijayan, Director, CIBA, scientists of CIBA and Mr. Arokiaswamy, Managing Director, Raj hatchery. On this occasion, Dr. K. K. Vijayan emphasized that brackishwater aquaculture is one of the vibrant farming sectors, and CIBA's research findings have direct applications in the field. He also said milkfish being an herbivore which also accepts low protein feed, cost of production is only in the range of Rs. 90-120 to a size of 500 gm in 6 months, with market price of Rs 150-250.

Mr. Arokiaswamy pointed out that the scope for utilization of vastly underutilized brackishwater bheries available in West Bengal where milkfish aquaculture can make a significant impact and this MoU will help to achieve the goal.

Dr. M. Kailasam, Head-in-Charge and Dr. Aritra Bera, Scientist, Fish Culture Division explained the technicalities involved and in milkfish breeding and scope for expansion of milkfish farming in Bengal region. The program was ended with vote of thanks by Dr. P.K Patil, Principal Scientist, ITMU of CIBA.

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NIOT developing deep-sea mining system: Venkaiah Naidu

Vice President M. Venkaiah Naidu said on Sunday that the National Institute of Ocean Technology (NIOT) is developing a deep-sea mining system to meet the nation's growing mineral needs.

Speaking at NIOT's silver jubilee celebrations here, Naidu said that he has been informed that NIOT is working towards developing a deep-sea mining system and other technologies for harnessing resources from the ocean to meet India's growing mineral needs and increase self-sufficiency in the near future.

"The development of technologies for the sustainable harvesting of living and non-living resources of the ocean is in line with the Blue Economy policy of the Government of India and will empower the nation to be a leader in oceans, just like in space technology," he said.

Naidu said that NIOT is working on almost all aspects of the six priority

pillars of Blue Economy -- fisheries and aquaculture; renewable ocean energy; seaports and shipping; offshore hydrocarbons and seabed minerals; marine biotechnology, research; and development and tourism. According to Naidu, Blue Economy also includes intangible economic benefits which may not be marketed, such as carbon sequestration, coastal protection, cultural values and biodiversity.

"While playing a sheet anchor role in sustainable management of ocean resources, NIOT must forge partnerships and collaborations across sectors and borders," Naidu added.

The Vice President said that NIOT's research includes detailed engineering for creation of sustainable coastal and offshore infrastructure, ocean data collection capability, marine biogeochemistry, marine pollution, oceanography, marine ecology, marine drugs and mariculture technologies.

Citing Niti Aayog which said oceans will become the new centres of economic activity in this era of advanced technology, Naidu said that emerging industries, such as aquaculture, marine biotechnology, ocean energy and sea-bed mining, have the potential to create jobs and spur worldwide economic growth. He said Indian epics have spoken about 'Samudra Manthan' thousands of years ago, stressing on the importance of oceans. Naidu said India's connection with ocean related activities like naval warfare and trade dates back to ancient times. "The oldest port of Lothal and the first century Chola port of Poompuhar are examples of our connection with marine infrastructure development.

"A Roman report describes how trade vessels were escorted by the king's fleet from the Poompuhar port to the estuary as it was a natural harbour in the mouth of the river Kaveri," Naidu said.

Mamallapuram, which recently hosted the meeting between Prime

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Minister Narendra Modi and Chinese President Xi Jinping, was a significant port city during the Pallava period in the 7th century.

It was also a thriving port until the end of the ninth century with the town being part of China's 'Silk Route'

and India's 'Spice Route', the Vice President said. According to Naidu, the silk industry of Kanchipuram in Tamil Nadu owes its genesis to the import of raw silk from China through Mamallapuram.

Starting from Ashoka, all Indian rulers, especially Rajendra Chola,

have shown their prowess over the seas and therefore we have traditionally acquired knowledge of creating marine infrastructure like landing jetties, mid-sea transfers of material from huge crafts to small boats and transport of materials through estuaries, Naidu said.

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Researchers find new fish species in Kerala waters



Glossanodon macrocephalus (Kerala argentine) which was discovered in Kerala waters

A team of researchers has discovered a new deep sea fish species in Kerala waters. *Glossanodon macrocephalus* (common name Kerala argentine) with whitish and silvery body and white meat is edible. According to Bineesh K.K., Scientist-D, Zoological Survey of India, Andaman and Nicobar Regional Centre, who led the group, the species belong to family Argentinidae of the genus Glossanodon.

"The new species are benthopelagic dweller found on muddy bottoms in depths of around 300 to 600 m. It is the first time the family has been reported from Indian waters," Mr. Bineesh said.

Mr. Bineesh, who is also a member of the International Union for Conservation of Nature (IUCN) Shark Specialist Group, said that he had collected four specimens of an unknown species of Glossanodon similar to Glossanodon melanomanus, during a survey, which were caught by deep-sea bottom trawlers targeting shrimp off Kollam. Further studies, however, revealed that it was distinct

from other members of the family, he said.

Habitat

According to the researchers, argentinines are small-sized, benthopelagic fishes found on offshore bottoms and seamounts throughout the tropical to temperate oceans of the world.

Two species of the genus, Glossanodon leioglossus and Glossanodon semifasciatus have commercial value in the central mediterranean and in the northwestern Pacific around Japan respectively. Currently the genus Glossanodon includes 15 nominal and valid species.

Researchers said that the new species clearly differed from their congeners with a combination of characters.

The species name 'macrocephalus' is from the Greek 'macro', meaning large and 'cephalon', meaning head, in reference to the large head in comparison with those of all

congeners.

Features

With a standard length of 12.9 cm to 16.4 cm, it has a relatively large head and moderately small eye. The new species have broad longitudinal black stripe above lateral line, a dark spot on the base to half of pectoral fin and no teeth on the tongue.

Anus is positioned immediately anterior to the anal-fin origin. There are 10-11 dorsal-fin rays, 21-23 pectoral-fin rays, 12-13 anal-fin rays, 11-12 pelvic-fin rays, five branchiostegal rays, 30-36 gill rakers on first arch, 47-48 vertebrae and a patch of small conical teeth on middle of lower jaws. The other members of the research team included Musaliyarakam Nashad, Fishery Survey of India, Port Blair; K.V. Aneesh Kumar, of Centre for Marine Living Resources and Ecology; and Hiromitsu Endo, of Laboratory of Marine Biology, Faculty of Science and Technology, Kochi University, Japan.

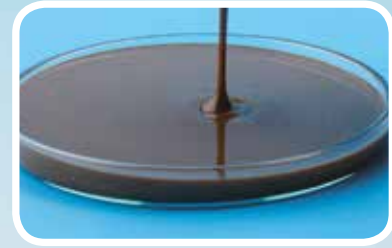
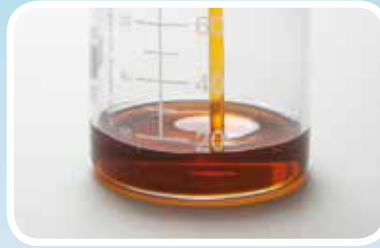
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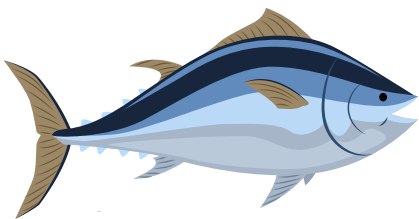
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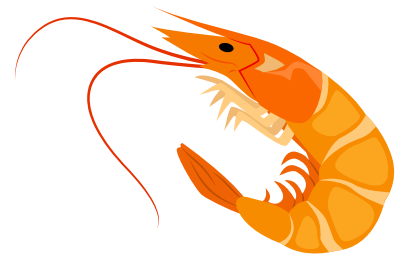
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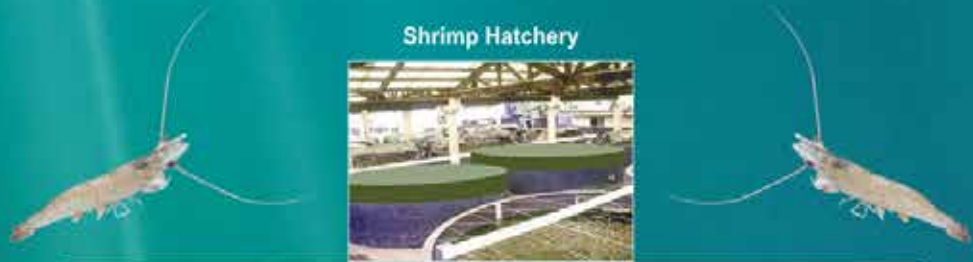
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