

MPEDA NEWSLETTER

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The Marine Products Export Development Authority

(Ministry of Commerce & Industry, Government of India)

MPEDA House, Panampilly Avenue, Kochi - 682 036, Kerala, India

Phone: +91 484 2311979 Fax: +91 484 2313361

E-mail: ho@mpeda.gov.in Website: www.mpeda.gov.in

MPEDA Newsletter

Vol. IV No. 8 November 2016

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Cover: Sushi preparations
Image credit: Dr. T R Gibinkumar
Location: Seafood Expo Global, Brussels

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Mr. B Sreekumar

Secretary

on behalf of

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Email: support@mpeda.gov.in

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Asst. Editor

Mrs. Divya Mohanan K M
Junior Clerk

Cover design

Dr. T R Gibinkumar
Deputy Director (P&MP)

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On the Platter.....!!



Dear friends,

As we analyze the provisional figures of marine products export for April to November 2016, an increase of 13% in rupee value and 9% in US \$ earnings compared to the same period last year, sustaining the trend displayed during the first half of the current fiscal. However, the volume growth is not very significant indicating a higher unit value realization this year. The unit value realized in the current year also grew by 9% to US\$ 5.42 against US\$ 4.99 last year. Provisionally, the cumulative figure upto November is around 6.60 lakh tons of seafood worth Rs. 23,900 Crores equivalent to US \$ 3.6 billion. With the positive reports about New Year demand, we are hopeful that the exports will cross US \$ 5 billion mark once again.

MPEDA was honoured by the visit of Mr. Ton Sinh Thanh, His Excellency Ambassador of Embassy of the Socialist Republic of Vietnam to India during the month. Vietnam is a major seafood importer from India and India is a major customer of Vietnam's Basa fish. I am hopeful that our seafood trade ties will be further strengthened by mutual understanding and cooperation with that country and His Excellency's visit and interaction has helped in knowing about the market perceptions further.

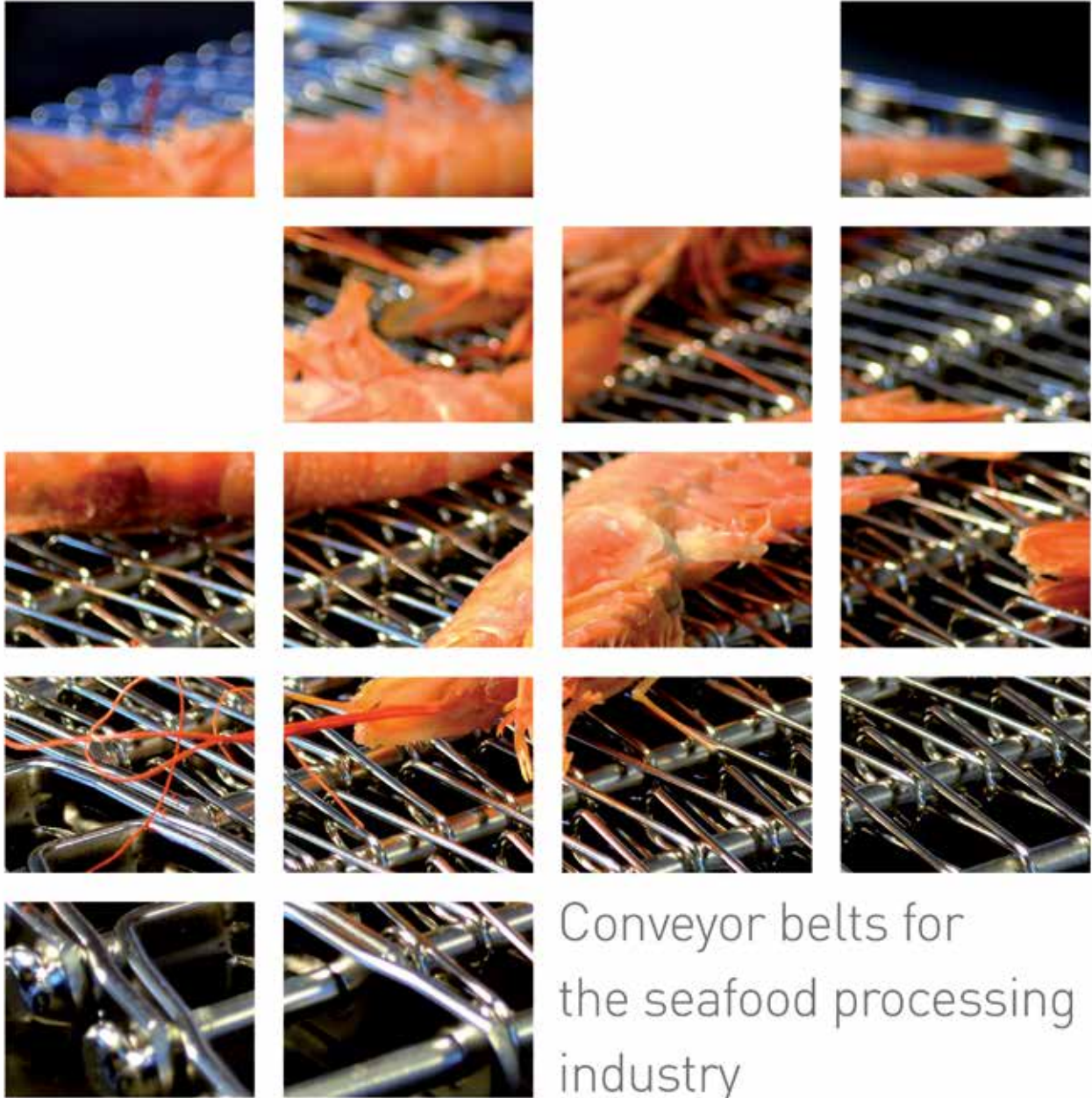
MPEDA also had a detailed discussion with the Management Committee members of the Seafood Exporters Association of India at Cochin where we had detailed discussions on the recent EC decision to escalate the sampling frequency of frozen farmed shrimp consignments to atleast 50% and other important trade issues. MPEDA has already taken up certain issues in the appropriate arena for possible solutions.

Besides, an Officer from MPEDA was also deputed to join the Indian delegation that attended the 10th India – EU Joint Working Group on SPS/TBT measures and participated in the discussions on the trade impediments. The decision by EC was noted with quite disappointment, as India feels that it has taken adequate measures at its level to curb the menace of antibiotic residue in farmed shrimp or fish, and the same is backed by minimal rejections on that account from EU market. We are hopeful that the next FVO mission will be able to take a stock of the improvements made and recommend reverting the sampling rate back to 10% or even lower.

Thank you.

November 2016
Kochi - 36

Dr. A JAYATHILAK IAS
Chairman



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MPEDA participates in 21st China Fisheries and Seafood Expo 2016, Qingdao

China Fisheries and Seafood Expo, 2016 is one of Asia's largest seafood trade event. The 21st annual China Fisheries & Seafood Expo was hosted at the Convention and Exhibition Centre, Qingdao during 2-4 November 2016. The event featured around 1,400 exhibiting companies from 44 countries. More than 29,000 people from 100 countries attended the world's second largest seafood exposition. The soaring appetite of China's elite middle class for more imported seafood has resulted in an 18% increase in the number of overseas exhibitors at the expo. This show provided great opportunity for overseas exporters who want to deal directly with Chinese buyers. Russia had put up two gigantic pavilions indicating their extraordinary interest in the Chinese market. Many major players of the trade such as USA, Japan, South Korea, Indonesia, Chile and Canada also had put up attractive country pavilions.



MPEDA Pavilion at China Fisheries and Seafood Expo 2016



Mr. Sunil Kumar U and Mr. A Sakthivel, Assistant Directors, MPEDA interact with visitors in MPEDA stall

India Pavilion by MPEDA

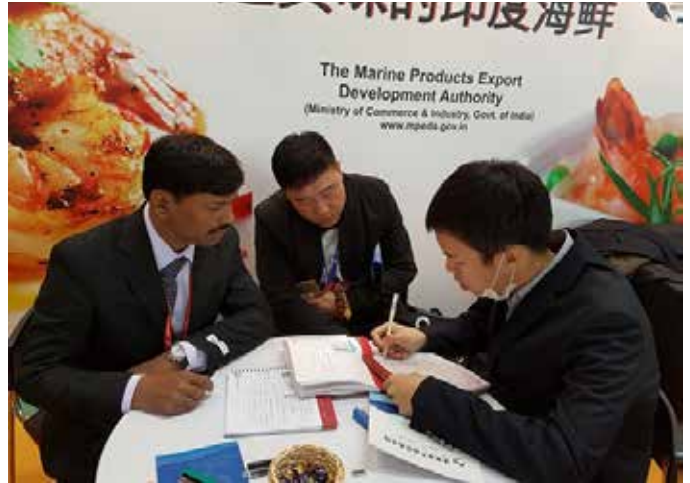
The India pavilion was organized by MPEDA at E2-1401 that covered an area of 72 sq. m. with 6 exporters as co-exhibitors. The pavilion was open from all sides and the MPEDA stall of 20 sq. m. was open from three sides. The back drop with the theme "Incredible seafood from Incredible India" attracted many. The frozen, chilled, dried and ready to eat samples were displayed in MPEDA

Co-exhibitors of MPEDA in China Fisheries and Seafood Expo 2016

1. Goan Fresh Marine Exports Pvt Ltd, Karnataka
2. Karavali Freezers & Exporters, Karnataka
3. Rameshwar Cold Storage, Veraval
4. Jagadeesh Marine Exports, Bhimavaram
5. Keshodwala Foods, Veraval
6. Gadre Marine Exports Pvt Ltd, Mumbai

stall in freezer, chiller and open containers. The samples especially chilled Ribbon fish got great attention from various overseas customers. Apart from China, there were buyers from Japan, Australia, Singapore,

Malaysia, Vietnam, Thailand, Indonesia, Ukraine, USA, Russia, UAE and many more countries. The major items in demand were Frozen Ribbon fish, Squid, Silver Pomfret, Croaker, Shrimp, Whelk (Baigai)



Co-exhibitor exporters and MPEDA officials in India Pavilion

and dried small shrimps (*Jawala*). The participation of MPEDA and coordination of Indian Pavilion were done by Mr. Sunil Kumar U and Mr. A Sakthivel, Assistant Directors, MPEDA.

About 183 trade enquiries received at the show are separately enlisted in the concerned section of this newsletter. The majority of enquiries were for Ribbon fish which is meant for local consumption. There was huge demand for raw shrimps for value addition too. The cultured Vannamee shrimp from east coast of

India was in great demand. Around 3000 visitors visited the MPEDA stall alone. 90% of Chinese buyers speak only Chinese and therefore MPEDA had availed the services of two interpreters. Most of the Chinese buyers are using 'We Chat' mobile application for their business negotiations.

Profile of Chinese seafood market

Rising income has changed the way Chinese people live. The middle class' newfound disposable income, coupled with easy access to the global marketplace, has

had far-reaching consequences. Celebratory banquets are an important part of Chinese culture. Weddings, business gatherings and government meetings are often marked by lavish spreads of rare delicacies from across the plant and animal kingdoms.

Chinese consumers, including those in Hong Kong are also purchasing a progressively more diverse basket of seafood products. For example, Chinese demand for luxury seafood – such as Live Lobster, Live Mud Crab, Live Grouper, Dried Fish



Russia's aggressive marketing in China Fisheries and Seafood Expo 2016

220.69 Million US\$ as against the export of US\$ 221.44 in 2014-15 (Source:MPEDA). The market share of China for Indian seafood was approximately 2%. The major exported items were frozen Ribbon fish, Silver & Yellow Croaker, Leather Jacket, Reef cod, Silver Pomfret, Squid, Vannamei Shrimp, Surimi, Live Mud Crab and Lobster. High import tariffs and arduous regulations in mainland China have resulted in some seafood importers seeking alternative trade routes.

Chinese supermarket and live fish market

The delegation had been to the Supermarket in Hisense Plaza and Maidaos live fish market in Qingdao to have a firsthand experience on the sale of raw fish and value added products in Chinese markets. The Supermarket had a separate section for seafood. There were value added products in Frozen, Dried and ready to eat forms. There is very good demand for products like breaded & battered shrimps, Squid products, frozen vacuum packed fish fillet etc.

The live fish has a distinct demand for households as well as restaurants. Live items of Mud Crab, Lobster, and Grouper are also highly demanded for restaurants as well as households.

Freshness and food safety are the most important attributes Chinese consumers consider while purchasing seafood and they generally have more confidence in imported seafood. They are becoming more and more quality conscious and interested in diversified species available in

Maws and Dried Jellyfish – has also expanded alongside rising incomes.

China is the largest exporter of seafood in the world with 15 % of global share. China became the third-largest fish-importing country by value in 2011 after Japan and the United States. Part of the fish imports is raw material to be re-exported after processing.

China's per capita fish consumption grew to 33.1 kg per year in 2010, at an annual rate of 6% between 1990 and 2010. With the rapid growth in production, China's share in the global fish production grew from 7% in 1961 to 35% in 2011. Notwithstanding that China consumes 34% of global food fish supply; it is still a net exporter of food fish. China is both an importer as well as exporter of fish. During 2015, China imported seafood of worth 12.18 billion US\$ and exported fish and fishery products worth 20.53 billion US\$ (Source- UN COMTRADE).

Major seafood imports to China included flours and meals of fish,

frozen Alaska Pollock, frozen fish, frozen Cuttlefish and Squid. The top suppliers of fish and fishery products to China are Russia, USA, Canada, New Zealand and Norway. Shrimp imports registered a positive growth of 125% in the first quarter of 2016 compared to the same period of previous year. The leading suppliers of shrimps were Argentina, Canada, Ecuador, Thailand and India. This increase in shrimp demand was attributed to the decrease in domestic production and high demand during the Chinese New Year period.

Major item of seafood exports from China are frozen Cuttlefish, Squid, frozen Shrimps, frozen Chinese Cod fillet, frozen Chinese Alaska Pollock fillet and prepared/preserved fish. During 2015, the top export destinations were Japan, USA, Hong Kong, Republic of Korea and Thailand.

Seafood exports from India to China

During 2015-16, India exported 50,042 MT of seafood worth



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Evaporation Condenser



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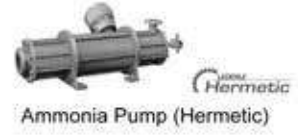
Evaporating Coil (Cu tube & Al fin)



Plate Contact Freezer



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Ammonia Pump (Hermetic)



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Cooking Machine (Water & Steam)



Aluminium (SS) Pan (Tray)



Breeding machine (Line)



Tunnel Powder Coating Machine



Shrimp Fryer



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Shrimp Peeler

Contact Window:

Mr. Shawn Wang
0086-18660021004
shawnn@live.cn

Mr. Orient Yang
0086-18653549849
yang20131003@live.com

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Value added products in the Haisen Supermarket

other parts of the world. There are several examples of successful regionally-branded seafood products, including Japanese sea cucumber, South African abalone and Canadian geoduck.

The seafood restaurants prepare dishes from the live varieties as per the choice of customer. White Shrimp, Mud crab, Grouper, Seer Fish, Octopus, Jelly Fish etc. are

easily available in restaurants.

Potential for growth

The participation of MPEDA in the fair made a distinct impact for future seafood trade by our exporters with China. China is a major market for Indian Seafood. It is poised to expand to 20 US\$ Billion market with the increased purchasing power of the working middle class. The Chinese buyers are getting

more and more brand conscious, as evident from the presence of entire global brands there. Indian seafood is welcome in China, and it is our turn to make most of the opportunity. As Chinese customers look forward for convenient value added products, India shall focus to ship more of such products to this market rather than Ribbon fish or raw Vannamee shrimp to keep Indian presence in Chinese seafood alive. ■

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For details contact:

Deputy Director (P & MP) / Editor, MPEDA Newsletter
 MPEDA House, Panampilly, Avenue, Cochin - 36
 Tel : +91-484-2321722, 2311979
 Telefax : +91-484-2312812
 E-mail : newslet@mpeda.gov.in, pub@mpeda.gov.in

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Highlights of marine fish landings in selected harbours of India during September 2016

Narayana K A, Afsal V V, Neethu N J, and Joice V Thomas, NETFISH-MPEDA

Introduction

Of the total fish production of India, about 35% comes from capture fisheries and the rest from aquaculture production. More than 1000 species are being landed along 1500 landing sites located across the East & West coasts of the country. Marine capture fisheries production is greater in waters off the West coast due to the large continental shelf in the Arabian Sea.

Information on boat arrivals and fish landings at the major fishing harbours along the east and west coasts of India is recorded by NETFISH as part of MPEDA's catch certification system. NETFISH monitors the marine fish capture along Indian coast by recording the boat arrivals and fish landings at 46 major harbours and landing centres (Table 1) from the 9 maritime states in the country. The data collected are processed to arrive at species-wise, state-wise, region-wise and harbour-wise evaluation of landings using MS office (excel). This report highlights the marine fish landings at major harbours of India during September 2016.

Estimates based on Landings

The total marine fish landings recorded all through September 2016 from the 46 selected harbours

was around 88,248.95 tons, which comprised 37,589.81 tons (43%) of Pelagic fishes, 22,241.78 tons (25%) of demersal fishes and 28,417.36 tons (32%) of shellfish resources (Fig 1).

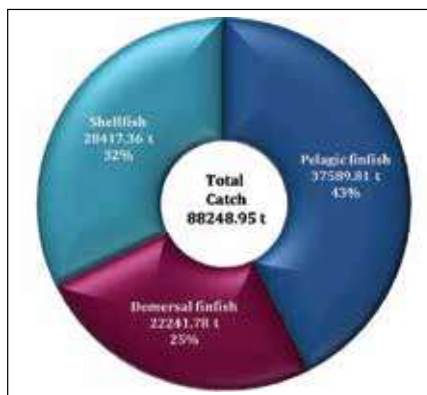


Fig. 1. Category-wise fish landings during September 2016

Table 1. List of harbours and landing centres selected for collecting the data

Sl. No.	State	Fishing harbour
1	Kerala	Beypore
2		Puthiyappa
3		Thoppumpady
4		Munambam
5		Sakthikulangara
6		Thottapally
7		Kayamkulam
8		Vizhinjam
9	Karnataka	Mangalore
10		Malpe
11		Gangoli
12		Tadri
13		Karwar
14		Honnar
15		Maharashtra
16	New Ferry Wharf	
17	Ratnagiri (Mirk-arwada)	
18	Sasson Dock	
19	Gujarat	Veraval
20		Porbandar
21		Mangrol
22	West Bengal	Digha (Sankarpur)
23		Deshapran
24		Namkhana
25		Sultanpur
26		Kakdwip
27		Raidigi
28	Odisha	Paradeep
29		Balaramgadi
30		Bahabalapur
31		Dhamara
32	Andhra Pradesh	Visakhapatnam
33		Kakinada
34		Machilipatnam
35	Nizampatnam	
36	Tamil Nadu	Chennai
37		Pazhayar
38		Nagapattinam
39		Tuticorin
40		Cuddalore
41		Mandapam
42		Chinnamuttom
43		Colachel
44		Pondicherry
45		Karaikal
46	Goa	Cutbona

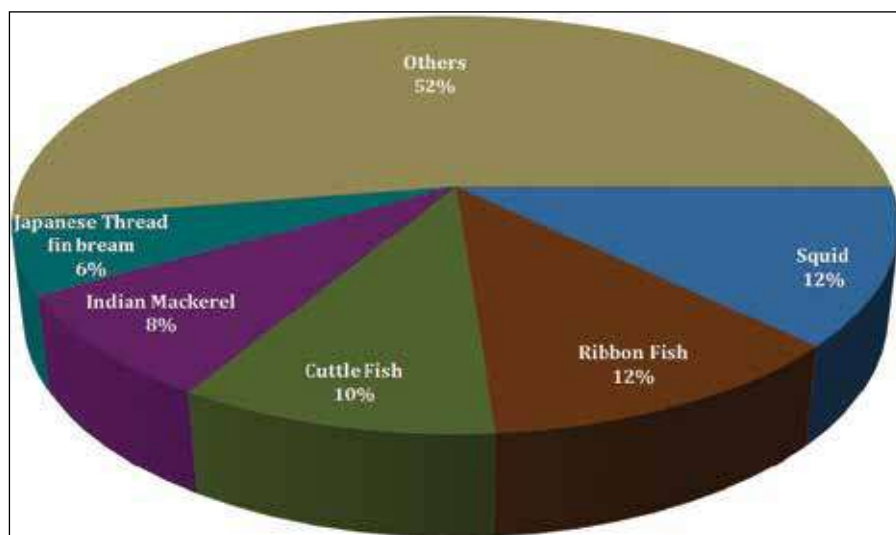


Fig. 2. Major items landed during September 2016

The top five contributors among 112 fish varieties recorded during the month were Squid, Ribbon fish, Cuttlefish, Indian Mackerel and Japanese Thread fin bream, which together accounted for 48% of the total landings (Fig. 2). The other fishery items that contributed significantly to the landings with more than 2000 tons, were Indian Oil Sardine, Croaker, Tuna, Seer fish and Lizard fish.

Category and item-wise breakups of the total landings recorded during the month is given in Table 2. Among the pelagic finfish resources landed Ribbon fish landing was the highest recording 10,274.83 tons (11.64%), followed by Indian Mackerel with 7,224.81 tons and Indian Oil Sardine with 4,191.07 tons. Tunas, Seer fish, Horse Mackerel and Anchovies were the other pelagic fishery resources that contributed more than 1,000 tons to the total landings. Japanese Thread fin bream, which recorded 5,028.97 tons (5.70%) topped the position among demersal finfishes. Croakers and Bull's eye followed with a quantity of 3,642.53 tons and

3,036.24 tons respectively. Pomfrets, Lizard fish, Reef cods, Moon fish and Catfish also contributed more than 1,000 tons to the landings. Among Shellfish, Molluscan stocks recorded more quantity (*ie.* 20,882.03 tons) than Crustaceans (7,535.33 tons). Among Crustaceans, majority of the landings *ie.* 6,766.58 tons were of Penaeid shrimps, out of which *Karikkadi* shrimp landing was the highest (1,685.02 tons). The contribution by Squid and Cuttlefish to the total landings accounted to 10,738.99 tons (12.17%) and 8,643.26 tons (9.79%) respectively.

Item	Quantity in tons	% of total catch
Pelagic finfish		
Ribbon Fish	10274.83	11.64
Indian mackerel	7224.81	8.19
Indian Oil Sardine	4191.07	4.75
Tunas	3352.18	3.80
Seer Fish	2104.79	2.39

Horse mackerel	1918.96	2.17
Anchovies	1455.05	1.65
Snapper	960.04	1.09
Scads	946.44	1.07
Bombay Duck	939.66	1.06
Barracudas	719.29	0.82
Hilsa	651.78	0.74
Herrings	532.82	0.60
Trevallies	457.28	0.52
Leather jacket	408.02	0.46
Lesser Sardines	332.25	0.38
Queenfish	249.83	0.28
Oriental Bonito	166.00	0.19
Sail fish	144.03	0.16
Marlins	102.50	0.12
Dolphin fish	97.19	0.11
Mullet	66.54	0.08
Sea bass	58.00	0.07
Silver sillago	48.97	0.06
Needle fish	43.93	0.05
Indian ilisha	38.53	0.04
Cobia	36.65	0.04
Milk fish	23.60	0.03
Rainbow runner	20.40	0.02
Flat needle fish	12.83	0.01
Indian salmon	11.08	0.01
Indian thread fish	0.48	0.00
Total	37589.81	42.60
Demersal finfish		
Japanese Thread fin bream	5028.97	5.70
Croakers	3642.53	4.13
Bull's eye	3036.24	3.44
Pomfrets	2394.65	2.71
Lizard fish	2003.45	2.27
Reef cods	1709.95	1.94
Moon fish	1206.27	1.37

Cat fish	1134.40	1.29
Sole fish	650.13	0.74
Goat fish	513.65	0.58
Eel	411.81	0.47
Rays	160.72	0.18
Pony fishes	104.31	0.12
Ghol	52.61	0.06
Emperor Bream	40.98	0.05
Whip fin silver biddy	34.35	0.04
Tiger Perch	27.45	0.03
Long spine sea-bream	25.30	0.03
White snapper	20.90	0.02
Indian Halibut	19.50	0.02
Parrot fish	11.05	0.01
Spine foots	5.20	0.01
Filefish	3.50	0.00
Starry Trigger fish	2.80	0.00
Yellow fin sea bream	0.70	0.00
Spade fish	0.38	0.00
Total	22241.78	25.20
Shellfish		
<i>Crustaceans</i>		
Penaeid Shrimps	6766.58	7.67
Sea Crab	691.04	0.78
Lobsters	41.99	0.05
Mud Crab	23.97	0.03
Non-penaeid shrimps	11.76	0.01
Total	7535.33	8.54
<i>Molluscs</i>		
Squid	10738.99	12.17
Cuttlefish	8643.26	9.79
Octopus	1499.79	1.70
Total	20882.03	23.66
Total shellfish	28417.36	32.20
Grand Total	88248.95	100.00

Region-wise landings

Among the 46 landing sites selected for the analysis, 15 belongs to South West region (Kerala, Karnataka & Goa), 7 landing sites to North West region (Maharashtra & Gujarat), 14 to South East region (Tamil Nadu & Andhra Pradesh) and 10 to North East region (Odisha & West Bengal). The landings recorded from the South West coast accounted to

39,283.75 tons which is 45% of the total landings during the month. North West contributed 32,075.82 tons (36%) whereas the South East and North East regions recorded comparatively low quantities of 7,372.35 tons (8%) and 9,517.02 tons (11%) respectively (Fig. 3).

In the South West and North East regions the pelagic finfish stocks dominated the landings whereas in North West and South East coasts

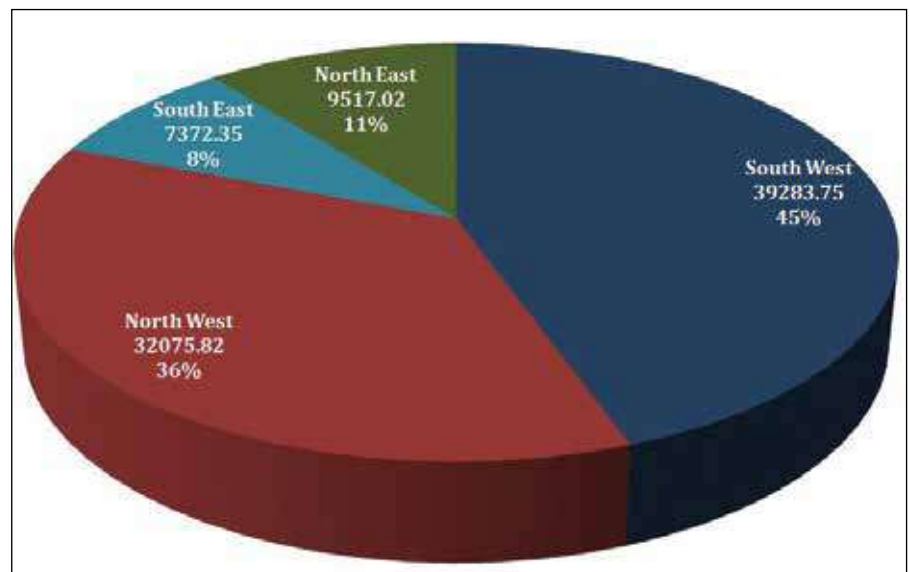


Fig. 3. Region-wise landings recorded during September 2016

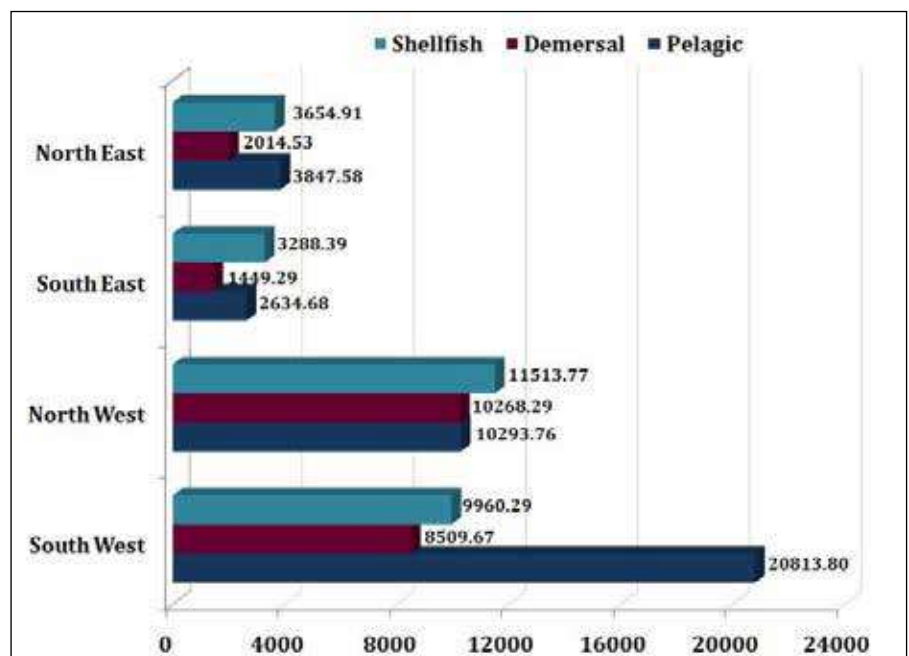


Fig. 4. Comparison of category-wise contribution (in tons) to the total landings of each region

the shellfish landings was more than that of pelagic finfishes (Fig. 4). The landing of demersal finfishes were the lowest in all the regions during September.

The fishery items which contributed predominantly to the landings of each region are listed in Table 3. Ribbon fish had added a major share (ranging from 5% to 20%) to the total landings of all the 4 regions and the maximum was in North West. Squid had contributed 7% to 16% to the total landings of 3 regions viz. South West, North West and South East, but in North East Squid landing was only nearly 3% of the total landing. Cuttlefish too contributed well to the landings (ranging from 7% to 12%) of all the regions except North East where it was 1.5%.

Table 3. Major items landed in each region during September 2016

Item	Quantity in tons	% of total landings of the region
South West		
Indian Mackerel	5915.56	15.06
Squid	4619.40	11.76
Cuttlefish	3879.88	9.88
Indian Oil Sardine	3627.84	9.23
Ribbon Fish	2645.69	6.73
North West		
Ribbon Fish	6498.36	20.26
Squid	5339.32	16.65
Cuttlefish	4029.80	12.56
Japanese Thread fin bream	2328.83	7.26

Croaker	2089.91	6.52
South East		
Cuttlefish	585.38	7.94
Poovalan Shrimp	559.34	7.59
Squid	515.83	7.00
Tuna	427.90	5.80
Ribbon Fish	408.08	5.54
North East		
Karikkadi Shrimp	1052.53	11.06
Croaker	973.29	10.23
Ribbon Fish	722.71	7.59
Hilsa	651.78	6.85
Bombay Duck	638.95	6.71

State-wise landings

Gujarat, Karnataka and Kerala were the top three states which recorded high landings during September 2016 and the catch from these states accounted for around 73% of the total landings (Fig. 5). Gujarat recorded around 1,000 tons more quantity than Karnataka whereas the difference with Kerala was to the tune of 11,850 tons. The state of Goa recorded the least landings.

Table 4. Major items landed in various states during September 2016

Item	Quantity in tons	% of total landings of the state
Kerala		
Cuttlefish	2279.50	16.40
Squid	1870.13	13.46
Indian Oil Sardine	1358.58	9.77
Ribbon Fish	1273.98	9.17
Indian mackerel	1205.50	8.67
Karnataka		
Indian mackerel	4380.96	17.77
Squid	2748.38	11.15
Japanese Thread fin bream	2328.89	9.44
Indian Oil Sardine	2253.56	9.14
Cuttlefish	1600.38	6.49
Goa		
Indian mackerel	329.10	45.31
Tuna	184.20	25.36
Moon fish	96.60	13.30
Needle fish	35.70	4.91
Black pomfret	27.20	3.74

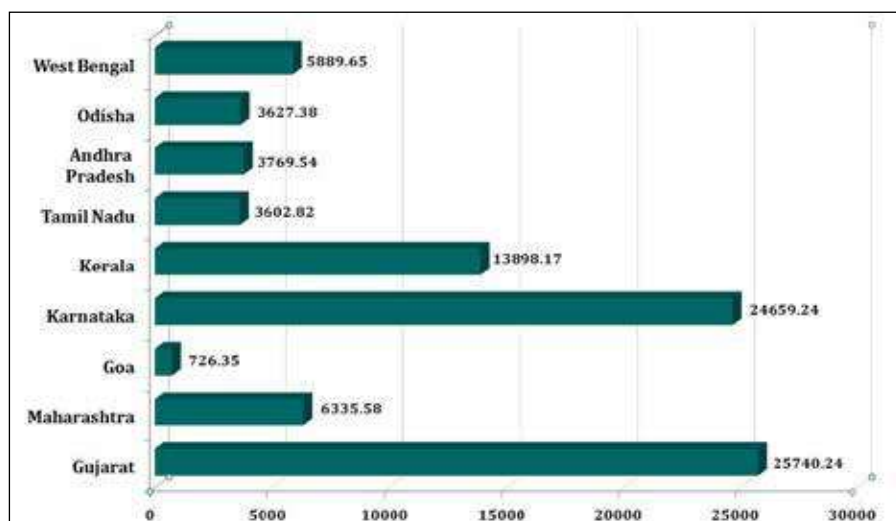


Fig. 5. State-wise fish landings (in tons) during September 2016

Maharashtra		
Squid	987.12	15.58
Horse mackerel	952.39	15.03
Ribbon Fish	678.51	10.71
Moon fish	603.49	9.53
Tuna	526.82	8.32
Gujarat		
Ribbon Fish	5819.85	22.61
Squid	4352.20	16.91
Cuttlefish	4029.80	15.66
Japanese Thread fin bream	2275.50	8.84
Croaker	1883.85	7.32
Tamil Nadu		
Cuttlefish	486.68	13.51
Squid	396.73	11.01
Indian Scad	258.22	7.17
Indian Oil Sardine	156.86	4.35
Indian mackerel	144.69	4.02
Andhra Pradesh		
Poovalan Shrimp	504.58	13.39
Ribbon Fish	298.65	7.92
Tuna	297.30	7.89
Seer Fish	261.70	6.94
Brown Shrimp	250.98	6.66
Odisha		
Ribbon Fish	653.05	18.00
Karikkadi Shrimp	560.22	15.44
Croaker	425.78	11.74
Poovalan Shrimp	207.73	5.73
Indian Oil Sardine	170.05	4.69
West Bengal		
Hilsa	599.98	10.19
Bombay Duck	569.18	9.66
Croaker	547.51	9.30
Karikkadi Shrimp	492.31	8.36
Indian mackerel	411.15	6.98

The major five fishery items landed in each state during September are presented in Table 4. Squid, Ribbon fish and Indian Mackerel were among the most landed items in 5 maritime states, though the states differed item-wise. Cuttlefish and Indian Oil Sardine too recorded as the fish items which formed a major part of the landings in minimum 4 of the maritime states. Croaker and Tuna represented the top five items in 3 states.

Harbour-wise landings

Of the 46 harbours, from where the landing data were collected, the Veraval harbour in Gujarat recorded the highest landing, which was to the tune of 14,086.55 tons (12%). Figure 6 & 7 represents the harbour-wise landings along West coast and East coast respectively. Malpe and Porbandar harbours accomplished the second and third positions with each contributing 11,231.50 tons and 8,573.54 tons

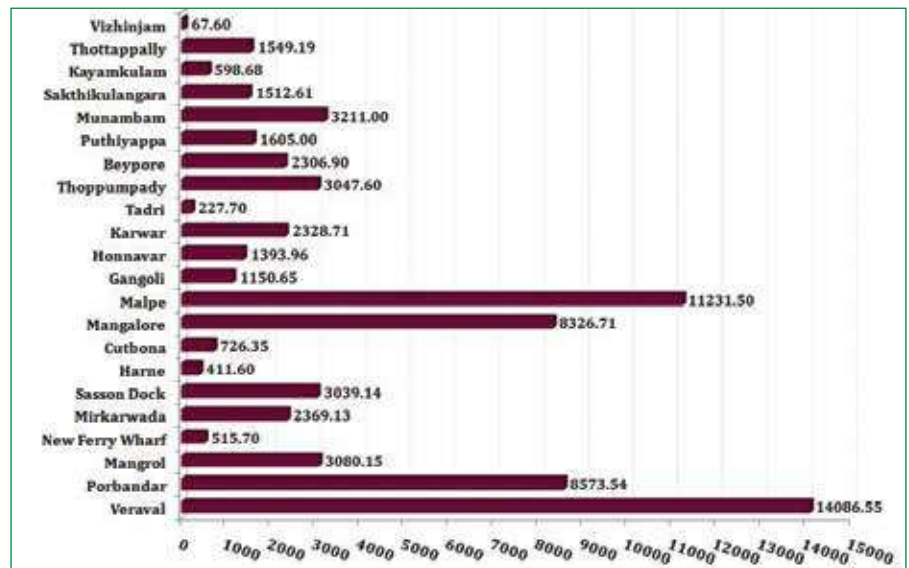


Fig. 6. Landings (in tons) at harbours along west coast during September 2016

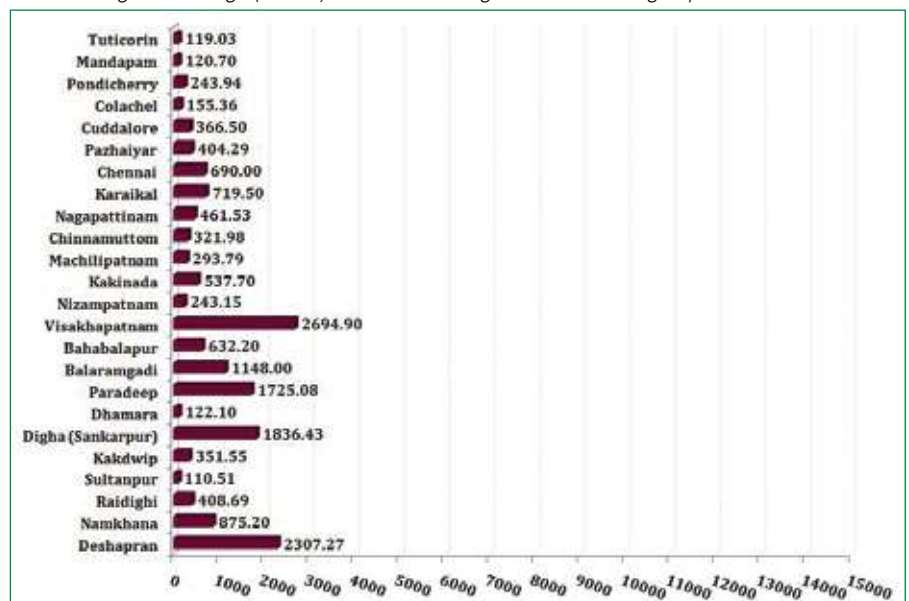


Fig. 7. Landings (in tons) at harbours along east coast during September 2016

correspondingly. The maximum landing recorded along East coast was at Visakhapatnam harbour with a contribution of 2,694.90 tons. In September, 21 of the selected harbours recorded a landing of more than 1,000 tons, out of which 16 harbours were along West coast and remaining in East coast. The least quantity landed was at Vizhinjam harbour in Kerala.

Estimates based on boat arrival

In total, 34,716 boat landings were reported during the month from the selected harbours. The harbours which recorded more than 1,000 boat landings in the month are given in table 5. The Veraval fishing harbour in Gujarat recorded the highest boat landing of 5,225, followed by

Porbandar with 3,142 boats and Malpe with 2,606 boats. More than 80% of the fishing vessels which landed their catch at the harbours belonged to the category of Trawlers. The remaining boat landings were of Purse seiners, Ring seiners, Gill netters and traditional crafts.

Comparative analysis

A comparison of the September month's data with that of July & August is presented in the Table 6. It was found that the total fish catch has increased in September by a huge margin of more than 40,000 tons, when compared to that of August. Though there was a decrease in the Pelagic finfish landing in the previous month, during September it had increased by 5%.

In contrary, the shellfish landing was found to be decreased by 7% in September. Demersal finfish stocks have not shown much variation in the landings, though a 2% increase can be observed every month. In September, Squid continued in the top position among the fishery items with maximum landing. Gujarat registered the maximum landings during September when Kerala was placed in the third position. The Veraval harbour in Gujarat gained the position of the harbour with highest landing. The total number of boat landings recorded had shown an increasing trend with recording around 10,000 more boat arrivals every month.

Conclusion

During September 2016, the fish landings recorded from 46 major fishing harbours of India accounted to a total of 88,248.95 tons in which pelagic finfish (43%) contributed more than that of Shellfish (32%) and demersal finfish (25%). The majority of the landings were from West coast, of which Gujarat contributing the major share. About 21 of the selected harbours recorded more than 1,000 tons of marine fish landings during the month, where harbours along West coast contributing more. Gujarat, Karnataka and Kerala were in lead positions among the maritime states in terms of fish landings and the Veraval harbour in Gujarat recorded the highest landing as well as the maximum boat arrivals during the month. ■

Table 5. Fishing harbours which recorded > 1000 boat landings during September 2016

Sl. No.	Fishing harbours	State	Number of boat landings
1	Veraval	Gujarat	5225
2	Porbandar	Gujarat	3142
3	Malpe	Karnataka	2606
4	Mangalore	Karnataka	1428
5	Mangrol	Karnataka	1375
6	Sasson Dock	Maharashtra	1340

Table 6. Comparative analysis of the data

	July 2016	August 2016	September 2016
Total Landings	17453.75 t	48725.30 t	88248.95 t
Landing of Pelagic finfishes	45%	38%	43%
Landing of Demersal finfishes	21%	23%	25%
Landing of Shellfishes	34%	39%	32%
Species recorded highest landing	Anchovy (13%)	Squid (13%)	Squid 12%
State recorded highest landing	Tamil Nadu (30%)	Kerala (35%)	Gujarat (29%)
Harbour recorded highest landing	Kayamkulam (12%)	Munambam (12%)	Veraval (16%)
Total Boat landings	13,441	24,455	34,716

Cleaning campaign conducted by the staff club members of MPEDA and Spices Board

Under the Swachh Bharat Mission, Staff Club members of MPEDA and Spices Board jointly conducted a cleaning campaign on 2nd October, 2016 at the premises of Govt. Primary Health Centre, Nettoor, Maradu Municipality. The cleaning campaign was inaugurated by Ms. Divya Anilkumar, Chairperson of Maradu Municipality. Mr. B Sreekumar, Secretary, MPEDA presided over the meeting. More than 90 officials and the hospital staff were participated in the campaign. The officials cleaned the surroundings of the hospital premises, removed unwanted bushes/plants, wastes, etc. Dusting, sweeping and mopping were done inside the hall and rooms for patients. Officials washed and cleaned the compound wall before painting the wall with emulsion paint. The fish pond of the hospital was also cleaned, painted the outside wall and filled with fresh water. The officials planted spice plants and other flowering plants in front of the Hospital garden.



Mr. B Sreekumar, Secretary, MPEDA addressing the participants



Participants at Govt. Primary Health Centre, Nettoor



Hospital premises cleaning in progress

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Seafood HACCP basic training programme

MPEDA Sub Regional Office, Bhimavaram organized a 4-day Seafood HACCP basic training programme from 25-28 October 2016 at Bhimavaram, West Godavari district, Andhra Pradesh. The main objective of the training program was to ensure the production of safe food by the effective application and successful implementation of HACCP system in seafood processing establishments with the help of HACCP trained manpower. The training program was based on the curriculum 'Hazard Analysis and Critical Control Point' developed by the National Seafood HACCP Alliance and 'Fish and Fishery Products Hazards and Controls Guidance' developed by US Department of Health and Human Services Food and Drug Administration Center for Food Safety and Applied Nutrition. 35 participants from various seafood processing plants registered with Sub-Regional Office, Bhimavaram attended the training programme.

The training programme was inaugurated by Mr. U Anand Ramesh Varma, Director, Ananda Group. In his inaugural address, Mr. Ramesh stressed on the importance of training programs for updating the man power of the industry on the latest technologies and market specific quality requirements. Earlier, Mr. Rakesh Thomas Kurian, Assistant Director, MPEDA SRO, Bhimavaram welcomed the gathering. Technical



Mr. Rakesh Thomas Kurian, Assistant Director, MPEDA SRO, Bhimavaram welcomes the gathering



A view of the participants



Participants alongwith MPEDA officials

sessions were handled by Mr. S S Shaji, Deputy Director, Mr. V Vinod, Assistant Director and Ms. K B Biji, Junior Technical Officer, MPEDA.

The first day of the program was based on the broad aspects of Good Manufacturing Practices and Sanitation Standard Operating Procedures which form the underlying support to HACCP plan. The following days systematically addressed the Principles of HACCP, 12 steps of developing HACCP plan, US Seafood Regulations, EU directives and National Standards. Each day's theory classes were

followed by practical sessions at the end of the day. The participants were divided into four working groups and each group was provided with different seafood product to develop the respective HACCP plan. The aptitude of each working group was evaluated through the presentations organized at the end of the training. In addition to the presentations, a final exam was also conducted to evaluate how the sessions were helpful to the participants.

The concluding session of the 4-day training program was chaired by Mr. V Vivekanandan, Deputy Director,

MPEDA, Quality Control Laboratory, Bhimavaram who stressed on the importance of the training program and shared his views on the functioning of the Quality Control section and Quality Control Labs of MPEDA. Suggestions were taken from all the participants to provide scope for further improvement of the program. The training program was a great success and all the participants acknowledged the effectiveness of the same for the successful implementation of HACCP in their respective establishments.



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MPEDA participated in Codex Committee on Food Hygiene

As in the previous year, MPEDA has participated in the 48th session of Codex Committee on Food Hygiene (CCFH) held at Los Angeles, California, USA. The Indian delegation was headed by Dr. A Jayathilak IAS, Chairman, MPEDA. Other delegates were Mr. S S Shaji, Deputy Director(QC), MPEDA, Mr. Sunil Bakshi (FSSAI), Ms. Praveen Gangahar (QCI), Mr. Aditya Kumar Jain (NFDB), and Ms. Simi Unnikrishnan (APEDA).

Dr. Emilio Esteban, of the United States of America, chaired the plenary session of CCFH. The Session was attended by delegates representing 48 member countries, a member organization and 8 international organizations including FAO and WHO.

The CCFH session was preceded by the following four meetings on 6th November 2016, i.e., (1) Meeting of the Chairs (France, Chile, Ghana, India and USA) of the working group on revision of the *General Principles of Food Hygiene* and its HACCP Annex with the Chair of the CCFH; (2) Meeting of the delegations of the members of the FAO/WHO Regional



Indian delegates in the plenary L-R: Ms. Simi Unnikrishnan, Ms. Praveen Gangahar, Mr. S S Shaji, Dr. A Jayathilak, Mr. Sunil Bakshi & Mr. Aditya Kumar Jain

Coordination Committee for Asia (CCASIA) with the delegation of the USA; (3) Meeting of the delegations of the members of the CCASIA; the meeting was chaired by India, and (4) Meeting of CCASIA members with the Chairman of CCFH, Dr. Esteban.

All the above meetings and an additional meeting of CCASIA members on 8th November 2016, were attended by the members of the Indian delegation as well.

Dr. Christine Bruhn, retired Director of Center for Consumer Research, University of California, was the key note speaker, who made a presentation on “Safe Food for Consumers”. The plenary started after the above presentation. The Agenda included various matters

referred by the Codex Alimentarius Commission (CAC) and other subsidiary bodies to CCFH such as *General Standard for the Labelling of Prepackaged Foods (CODEX STAN 1-1985): Date Marking, Revision of the General Principles of Food Hygiene (CAC/RCP 1-1969) and its HACCP Annex, Proposed draft guidance on histamine control and sampling plans for histamine and Water Quality*, to name some those were of concern to the seafood sector.

India’s concern on some of the documents was suitably addressed in the plenary. The 48th Session of CCFH concluded on 11th November, after finalising the report. The chair declared that the 49th session of CCFH shall be held during 13-17 November 2017 at Chicago, USA.



A view of the dais

MPEDA joins the Indian delegation for 10th Indo-EU Joint Working Group on SPS/TBT

As nominated by MPEDA and DoC, Mr. Vaniya Kishorkumar V, Technical Officer (QC) of MPEDA has participated in the 10th Indo-EU joint working group (JWG) on Sanitary and Phytosanitary Measures/ Technical Barriers to Trade held at Office of DG-Trade, European Commission, Brussels, Belgium during 10-11 November 2016. Indian delegation comprising 10 members from different departments and Mr. Sarvesh Rai, Adviser, Embassy of India, Brussels participated in JWG. Indian side meeting was co-chaired by Mr. Santosh Kumar Sarangi, Joint secretary, Department of Commerce. From EU side the meeting was chaired by Mr. Peter Berze, Office of DG-Trade, European Commission. Points raised from Indian side pertaining to seafood include imposing of default level for fish



Mr. Vaniya Kishore Kumar, Technical officer, MPEDA (extreme right) along with other delegation members discusses fisheries subject with EU members

and fishery products (Ethoxyquin), strict EU measures imposed by 50% sampling of Aquaculture products, modification of EU Rapid Alert system, wrong alerts on trade samples, provision for re-testing

of consignments, destruction of rejected consignment, stringent level for lead in Cephalopod etc. The Joint working group discussion was beneficial to enhance trade relation between India and EU.



Members of Indian delegation

AQUACULTURE SCENE

Training programmes and campaigns in aquaculture by MPEDA field offices

Satellite Centre, Ratnagiri

MPEDA Satellite Centre, Ratnagiri organized five awareness campaign programmes on 'Abuse of antibiotics' at Golap, Bakale, Nanij, Vesvi and Karivane villages of Ratnagiri district respectively on 1st, 2nd and 20th September, 9th and 10th November 2016 and one awareness program on 'Diversification of aquaculture' at Kondsor village, Ratnagiri district on 1st September 2016. Sixty two shrimp/prawn/fish farmers & new

entrepreneurs were benefited from the programmes.

The farmers were explained about the quality requirements of customers in major overseas markets and the EU directives for screening of farmed samples for antibiotic residues during the awareness campaigns against use of banned antibiotics in aquaculture. Farmers were advised not to use banned antibiotics during their culture practices and explained

them the consequences of using banned antibiotics. Importance of eco-friendly and sustainable aquaculture was stressed.

During awareness campaign on 'Diversification of aquaculture' the need of diversification of aquaculture was highlighted. Techniques involved in farming of crab/seabass/tilapia were explained to the farmers and relevant literature materials were distributed to the participants.



Campaign at Kondsor village, Ratnagiri district



Campaign at Golap village, Ratnagiri district



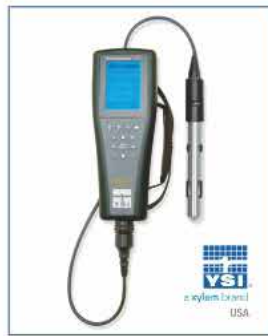
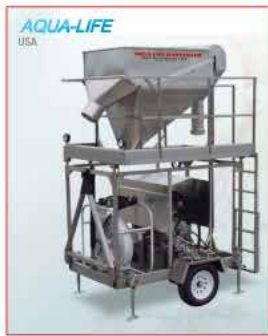
Campaign at Bakale village, Ratnagiri district



Campaign at Nanij village, Ratnagiri district

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Campaign at Vesvi village, Ratnagiri district



Campaign at Karivane village, Ratnagiri district

Regional Centre, Bhubaneswar

MPEDA Regional Centre, Bhubaneswar organized a 5-day training programme on 'Adoption of BMPs in shrimp farming and species diversification' from 17-21 October 2016 at Karal village, Puri district involving shrimp farmers of the Scheduled Caste. The programme was attended by 20 farmers from Karal, Natara, Korana, Anakana and Chhuriana villages.

The programme was inaugurated by Mr. Swadin Kumar Naik, Chairman, Astaranga Panchayat Samiti. Mr. N V Tambada, Assistant Director (AE) welcomed the gathering. Technical sessions were handled by Mr. U C Mohapatra, Deputy Director (Aqua), Mr. N V Tambada, Assistant Director (AE), Mr. S M Shirodkar, Junior Technical Officer, MPEDA, Mr. Sakrajit Patasuni, Field Manager, NaSCA, Puri and Mr. Duryodhana Sahoo, Fishery Extension Officer, Gop. Topics on site selection, construction / maintenance of shrimp farm, biological aspects of shrimp, selection of quality seeds, transportation, acclimatization and stocking, pond preparation, soil / water quality management, feed and feeding management, disease prevention and avoiding banned



Mr. Swadin Kumar Naik , Chairman, Astaranga Block Panchayat Samiti addressing the farmers



A view of the participants during field visit to shrimp farms

antibiotic use, bio security in *L. vannamei* farming, economics of shrimp farming, GPS in aquaculture and diversification to farm varieties such as Crab, Sea bass, Tilapia; aqua society formation and its benefits, farm enrollment and online system for financial assistance schemes and procedure for obtaining CAA registration were presented and discussed.

On 20th October 2016, a field visit was carried out to the shrimp farms in Raiberua and Belanga villages to provide an opportunity to the trainees to familiarize with nursery rearing, bio-security measures and monitoring of water parameters. Relevant literatures were distributed to the participants. Certificates and stipend were distributed to the participants on the last day of the programme.

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CMFRI initiative to empower fisherwomen begins

The Central Marine Fisheries Research Institute (CMFRI) has launched phase-II of 'Theeranaipunya,' a two-month training programme for skill enhancement and capacity development among fisherwomen, in the State.

The CMFRI is organising the programme with support of the Society for Assistance to the Fisherwomen (SAF) under the Department of Fisheries.

'Theeranaipunya' focuses on skill development and imparting on-

job training to girls hailing from the fishermen community. In the first month, training will be imparted to participants on higher education, job skills, personality development, leadership, entrepreneurship, communication skills and skill development for competitive examinations. The participants will also be given training at educational/technical institutions, companies, business firms and work places of their choice.

Almost all those participated in phase-I of the project, which was held in the February-April period

this year, secured jobs according to their educational qualifications. The training programme was inaugurated by SAF Executive Director, C R Satyavathi on 05.11.2016.

CMFRI Principal Scientist and Course Director Shyam S Salim said the programme was part of the CMFRI's social responsibility initiatives. Around 70 faculty members from within and outside the Institute will lead classes on various subjects.

-The New Indian Express

Seafood body to tell EU of steps taken on shipment quality

The Marine Products Export Development Authority (MPEDA), an agency for promotion of seafood exports from India, will approach the European Union after the latter tightened its inspection norms for aquaculture products sourced from India.

"We are going to prepare a detailed statement and give it to the European Authority when they come for discussion. It will contain all the steps we have taken and what we intend to take. There is a meeting scheduled in November in Kochi," said A Jayathilak, chairman, MPEDA. "Secondly, we are intensifying the testing norms to find out what went wrong and where the problem lies."

MPEDA recently wrote to its sub-

offices in Odisha and Tamil Nadu, where the shrimp seed samples tested positive for banned substance such as chloramphenicol and nitrofurans, asking action be taken.

Under the revised norms of EU, the member-states shall, by using appropriate sampling plans, ensure official samples are taken from at least 50% of consignments presented for import at border inspection posts on their territory. Earlier, the testing was done only on 10% of the consignments.

If a consignment consists of aquaculture products from more than one establishment of origin, samples shall be taken for each individual establishment, the EU

said in a notification.

The EU is the third largest market for Indian shrimp exporters with a share of 21% in dollar terms after the US (28%) and South East Asia (25%).

Quantity-wise, too, the EU is the third largest destination with a share of 19.7% of the 945,892 tons of seafood exported from India (2015-16 figures).

The obligation for mandatory testing should be strengthened to continue to deter producers in India from misusing the relevant substances and to minimise risks to human health in the EU, the notification noted.

- Business Standard

Call to use remote sensing to assess fisheries potential

India should use remote sensing data to assess the potential of fisheries and to implement a sustainable fisheries management suitable to the country, Trevor Platt, an eminent marine-optics scientist from the UK, has said.

Platt, Professorial Fellow at Plymouth Marine Laboratory in the UK, was speaking after inaugurating national training programme on 'Monitoring Structure and Functions of Pelagic Ecosystem at Regional Sectors: Relevant for Fisheries' organised by the Central Marine Fisheries

Research Institute in association with the Jawaharlal Nehru Science Fellow (JNSF), currently with the institute.

According to Platt, marine scientists should think from the point of view of an ecologist to formulate effective management strategies for the fisheries sector.

The Indian fisheries sector is facing a number of challenges, including the depletion of commercially important fish species, he said, adding that ecosystem based approach was essential for maintaining the

sustainability of the fishery.

He also stressed the need for incorporating the latest technology in the marine sector, giving prior focus to the ecological importance.

The training programme is aimed at boosting the research base towards the development of an eco-friendly fishery management practices in the country.

The programme was sponsored by National Innovations in Climate Resilient Agriculture (NICRA).

- *Business Line*

Value-added, battered, shellfish, driving chilled growth in UK

Chilled fish sales have continued to grow both in value and volume in the UK, according to market researcher Kantar's figures analyzing the 12 weeks ending Nov 16. The figures showed that all meat, fish and poultry categories were growing, except sliced, cooked meats.

"Compared with last year, chilled fish has seen 645,000 more shoppers, with added value bringing in the most new shoppers," Kantar's business unit director or meat, fish and poultry, Nathan Ward, said. Added value, battered and shellfish are the key markets in driving growth for chilled fish, Ward added.

Salmon, shrimp, haddock, cod and seabass were the biggest contributors to the increased value of the category, according to the research. In particular, salmon and prawns contributed to the growth in added value, while cod, seabass and salmon saw strong growth in natural.

- www.undercurrentnews.com

Indo-U.S. collaboration to focus on pelagic fish resources

From predicting harmful algal blooms (HAB) and fishery of small pelagic species, there is quiet a lot that earth scientists could tell the world.

The Ministry of Earth Sciences,

India and the National Oceanic and Atmospheric Administration (NOAA), U S, are jointly working on a research collaboration programme to use combined scientific and technical skills in enhancing the observations of the Earth.

The collaborative programme, implemented through the National Marine Fisheries Services, NOAA and the Centre for Marine Living Resources and Ecology (CMLRE) and the Indian National Centre

for Ocean Information Services (INCOIS), would focus on prediction of pelagic fish resources, especially sardines.

The small pelagic, Indian oil sardine, mackerel and anchovies, contribute almost 55% of the marine fish catch from the south eastern Arabian Sea. Of this, the sardine alone accounts for almost 16%. Almost 90% of the artisan fishermen directly or indirectly rely on these fishes for their livelihood and so the inter-annual variations in the availability of these fishes have a considerable impact on the economy of the common men, pointed out M Sudhakar, Director, CMLRE.

Increasing frequency and extent of harmful algal blooms in the coastal and oceanic area of the Indian Exclusive zone is a

cause for concern, as it disrupts biogeochemical cycles and possibly enhances the oxygen minimum zones. This in turn affects marine ecosystem processes such as energy flow and prey availability for mid- and upper-trophic predators. Therefore, the understanding of formation mechanisms of the harmful algal blooms, its spread and the environmental set-up favouring their production is of utmost significance, he explained.

The institutions together would develop improved predictive capability for the small pelagic of the south eastern Arabian Sea especially sardines and develop harmful algal blooms monitoring and prediction system for the coastal oceanic occurrence, he said.

There would be technological



support and sharing of expertise for the development of statistical forecast models on the abundance and distribution of small pelagic fishes and biophysical models to relate plankton production to physical ocean dynamics.

The lessons learnt from sardine fishery management in the California current would also come in support of the Indian fishery programme, the researchers hope.

- *The Hindu*

Honour to ICAR-CIFT, Cochin

The Quality Assurance and Management Division of ICAR- Central Institute of Fisheries Technology, Cochin undertakes different consultancy programme for the Kerala State Departments in the area of food safety, laboratory design and getting accreditation as per ISO/IEC 17025:2005 Laboratory Quality Management System. The Chemical and Microbiological Laboratory of State Dairy Department, Thiruvananthapuram, designed and developed by the ICAR-CIFT recently received accreditation from National Accreditation Board for Laboratories (NABL), New Delhi. In recognition of the services, the State Dairy Department felicitated



Mr. Pinarayi Vijayan, Hon'ble Chief Minister of Kerala honouring Dr. T V Sankar, NABL Manager

the Quality Assurance and Management Division, ICAR-CIFT, Cochin. Hon'ble Chief Minister of Kerala Mr. Pinarayi Vijayan honoured Dr. T V Sankar, Principal Scientist and NABL Manager of the Institute

on the occasion of the dedication of the Laboratory to the State in the function held on 7th September, 2016 at Thiruvananthapuram.

- *CIFT*

Trade marks to ICAR-CIFT, Cochin

ICAR-CIFT has successfully registered two trademarks, FERTIFISH® and FISHMAGIC®. Both the trademarks were published in Trademark Journal No:1741, in April, 2016 and will have validity up to June, 2022.

FERTIFISH® is registered under the trademark Class 1, as fish based manure. Class 1 deals with chemical products used in industry, science and agriculture, including those

that go to the making of products belonging to other classes.

FISHMAGIC® is registered under the trademark Class 35, as exclusive outlets for business management, business administration and office functions. Class 35 includes mainly services rendered by persons or organizations principally with the object of, help in the working or management of a commercial undertaking, and/or help in the



management of the business affairs or commercial functions of an industrial or commercial enterprise.

- CIFT

New fish species discovered yet again from India's north eastern state of Manipur

A new fish species of torrent minnow has been discovered yet again from India's North Eastern state of Manipur. The new species *Psilorhynchus konemi* locally known as 'Ngathanu' in Anal tribe dialect was discovered by a research team of Manipur University's Department of Life Sciences (fishery unit) from the Chakpi River in Manipur's Chandel district bordering Myanmar.

"We've submitted our paper last year but it was accepted only this month following a thorough examination by the reviewers," says key researcher Bungdon Shangningam who named the fish in memory of her late father BD Konemi for the continuous support during their research.

"So far I have discovered three such species from Chakpi alone which means this river could be an ideal habitat for them."

With this, Shangningam had so far discovered as many as 10 new fish species from Manipur's border streams and rivers namely Chalou, Dutah, Namy and Chakpi. In fact, researchers and scientists believed that Chakpi River, which originates from Tengnoupal peak to join Manipur River at Sugunu before flowing through a narrow gorge to join the Chindwin River in Myanmar, could be a paradise for researchers if conserved properly.

Earlier, this young researcher under the guidance of Prof. W Vishwanath, member of IUCN's fresh water fish specialist group, discovered four species of *Psilorhynchus*, three species of *Garra* and 1 species of *schistura* besides two *Psilorhynchus*



species (under re-description). Six species of torrent minnows of the genus *Psilorhynchus* namely *P. Brevimior*, *P. Chakpiensis*, *P. Maculatus*, *P. Microphthalmus*, *P. Ngathanu* and *P. Rowleyi* are also distributed in the Chindwin basin of Manipur.

The International Commission on Zoological Nomenclature, which

provides and regulates a uniform system of zoological nomenclature ensuring that every animal has a unique and universally, accepted scientific name declared that fish species is new to the world few days back.

The newly discovered fish is distinguished from other members of the *Psilorhynchus homaloptera* species group by a combination of

characters including colourations on the body dark olive, unbranched pectoral fin rays prominent dark brown and caudal fin with small melanophores and an incomplete black bar. The fish measures around 59 mm which is somehow similar to that of cobotids (Ngakijou in Manipur).

It may be mentioned that earlier in the month of October, a new

fish species belonging to genus *Physoschistura* has been discovered from Lohit River in the easternmost part of the state at Walong under Anjaw district by a survey team of Arunachal Pradesh Regional Centre of the Zoological Survey of India (ZSI), Itanagar.

- www.thenortheasttoday.com

Scarce freshwater fish pose danger in India

Alarm bells have started ringing in India. Migratory fish like the Hilsa (*Tenualosa ilisha*), which travel long distances inland through major rivers in East Central India, are at the threshold of extinction. Similarly, Bhetki (Barramundi or Asian Sea Bass), and Khainga (Grey Mullet), which migrate to the sea for spawning are also becoming a rare entity in these waters, writes A Nair.

India's freshwater fish are under pressure. Multiple factors like pollution, low water flow levels in rivers that can restrict the ability of fish to migrate to spawning grounds, and unregulated fishing during the breeding season have been posing a threat.

The India government is looking to arrest the drastic downslide in fish catch.

"Rivers are crucial breeding grounds for freshwater fish. Several factors have contributed to the decline in fish population and a major criteria is unregulated inland fishing during the breeding season," said Shailendra Dwivedi, Joint Secretary, F&ARD (Fisheries and Animal Resources

Development department), Government of Odisha.

A survey conducted by the Wildlife Society of Odisha (WSO) underscored the point. It revealed that the fish catch in the distributaries of the Mahanadi, which is a major river that runs through East Central India, has dwindled by as much as 80% over the past two decades. While the slump has impacted the income of river fishermen, many have been forced to shift to alternative livelihoods to shelve unemployment.

WSO secretary Biswajit Mohanty said for the last 16 years the organisation has been demanding a ban on fishing in the rivers and lakes of Odisha during monsoon to protect the adult breeding fish and ensure spawning. The neighbouring states of Madhya Pradesh, Andhra Pradesh, Tamil Nadu and Kerala in South India have already banned fishing in the rivers and lakes during the breeding season.

Asked about the ban, Shailendra Dwivedi said the state government is seized of the matter and is looking

into the issue.

"In addition to imposing the ban, we have to ensure that we try and bring back the many species of river water fish that have become extinct. Many of the fishermen in the neighbouring states have been using unproductive and dangerous fishing methods like explosives, which have to be curtailed," he said.

Mr. Dwivedi went on to add that the Odisha government is also looking to expand aquaculture, which involves cultivating freshwater and saltwater populations under controlled conditions.

While fishermen have been complaining of a low catch, many point out that the average size of the common river carp species such as rohu, catla, mrigal and catfish has slumped to just 1-2 kilogram (kg). Earlier, they say they could net large specimens of 5-8 kg, a feat which is almost unheard of these days.

Shailendra Dwivedi added that the Odisha government is setting in place conservation programmes to counter the Hilsa decline.

"A year ago, Hilsa was available at USD 18 (Rs. 1,200) per kg. It is now available at USD 27 (Rs. 1,800) per kg. The low catch is unremunerative for farmers. Even in neighbouring Bangladesh, the delicious fish is on the decline," said Mr. Dwivedi, who had been to Dhaka last year.

The threat to natural fish stocks in Odisha assumes significance as the state is largely dependent on the neighbouring state of Andhra Pradesh. The southern state supplies over 45,000 tons of

freshwater fish every year to meet Odisha's high domestic demand.

Satish Ranjan Das, Nodal Officer from Odisha's Directorate of Fisheries said there was 11% more production this year as compared to last year.

"Freshwater fish production was 337,000 metric tons in Odisha, as compared to 300,964 metric tons last year. We imported 48,000 metric tons from Andhra Pradesh to feed local demand. Overall, we had 469,000 metric tons in 2014-2015, and

521,000 metric tons in 2015-2016. Hence, 11% increase," he said.

Last year, the Odisha government added 2,600 hectares of new area. "In the brackishwater sector, we added 400 hectares of new water areas, and another 2,200 hectares in the fresh water sector with more ponds and tanks," Das added. He pointed out that the state government was stocking "good quality fish seeds in the reservoirs and actively supporting many fisheries."

- *TheFishSite News Desk*

ICAR-CIFT conducted awareness workshop on Lobster traps

For promoting and supporting the sustainable small scale fisheries, especially the spiny Lobster fisheries in Mandvi region of Gujarat state, WWF in association with ICAR-CIFT has conducted a one day awareness workshop on Lobster traps and benefits of trap fishing on 10th November, 2016 at Vivekand Research and Training Institute, Mandvi, Kutch district of Gujarat.

The programme was officially inaugurated by Mr. Haji Yakubhai Patel, President, Mandvi Fishermen Society. Dr. K K Prajith, Scientist of the Veraval Research Centre of ICAR-CIFT gave a talk on "Lobster traps: Design and operation strategies for resource conservation". He explained the use and benefits of lobster trap designed and popularized by ICAR-CIFT in Southern coast of India. He also stressed about the need



Participants along with resource persons

of using energy efficient and eco-friendly fishing gear for resource conservation and sustainable harvest. Fishermen asked for demonstration field trials with ICAR-CIFT lobster traps at various fishing grounds. During the function, a leaflet on "Trap fishing for resource conservation and energy efficient fishing" was also distributed to the fishermen.

Dr. D Divu, Scientist, Veraval Regional Centre of ICAR-CMFRI delivered a talk on "Sustainable lobster fishery management and culture aspects". Mr. B Vishnu,

Fisheries Officer, Bhuj, Govt. of Gujarat spoke on "Lobster fishery along Gujarat coast". Mr. V K Ghoel, WWF-India made a presentation on "Scope of eco labeling/ MSC certification of lobster fishery". Twelve fishermen of Mandvi actively participated in the programme and expressed their views and suggestions for the implementation of the new fishing technology. The programme concluded with a vote of thanks by Mr. V K Ghoel, WWF-India.

- *CIFT*

ICAR-CIFT conducted training on “Disease diagnostics and disease management in aquaculture” for fishery officials from Kerala State

Aquatic animal health is fundamental to efficient aquaculture production. Aquatic animal diseases have resulted in serious socio-economic losses and environmental impacts as well as threats to food security and the livelihoods of vulnerable sectors of society. Global losses to White Spot Syndrome Virus (WSSV), the causative agent of white spot disease in shrimps and other crustaceans, have been estimated to cost between US\$ 8-15 billion. Measures to combat diseases of fish and shellfish have only recently assumed a high priority in many aquaculture-producing regions of the world. Diagnostic methods play an inevitable role in health management. Advanced molecular methods are used for rapid disease diagnosis. In order to strengthen the skill of State Fishery Officials on disease diagnostic tools and methods in aquaculture, training programmes on “Disease Diagnostics and Disease Management in Aquaculture” was organized at ICAR-Central Institute of Fisheries Technology, Cochin during 18-21 October, 2016. A total of 23 officials from Department of Fisheries, Kerala and Agency for Development of Aquaculture (ADAK) were trained on diseases of finfish and shellfish, diagnostic techniques,



*Dr. C N Ravishankar delivering the inaugural address
(Also seen are: Dr. K V Lalitha, Dr. Toms C Joseph, Dr. A K Mohanty and Dr. V Murugadas)*



Participants and faculty of the programme

water quality parameters, methods of sample collection, preservation and transportation of samples for disease diagnosis, biosecurity in aquaculture and key inputs in aquaculture. The training programmes was organized under National Fisheries Development Board (NFDB) funded "National Surveillance Project on Aquatic Animal Diseases". Hands on practical sessions were also provided to all officials on disease diagnosis. The training programme

was formally inaugurated by Dr. Ravishankar C N, Director, ICAR-CIFT. During the programme, Dr. K V Lalitha, Principal Investigator of the project and Course Director, welcomed the gathering and Dr. V Murugadas, Scientist proposed a vote of thanks. Dr. Toms C Joseph, Principal Scientist gave an overall view of the training course. Dr. A K Mohanty, HOD, EIS offered felicitation.

- CIFT

Promotion

Mrs. Ramadevi S, Senior Stenographer, MPEDA Regional Office, Kolkata promoted as Junior Superintendent.

Transfer

Mrs. Neethu Hussain, Accounts Assistant, Chairman's Office transferred to Accounts Section, MPEDA Head Office.

Retirements

❖ Mr. Vimal Kumar K N, Joint Director upon superannuation after completing 36 years and 9 months of excellent service in various capacities.

❖ Mr. Vasa Venkata Raju, Assistant Director (ROs) upon superannuation after completing 34 years and 9 months of excellent service in various capacities.

❖ Mrs. Vijayakumari V K, Assistant Director (ROs) upon superannuation after completing 34 years and 10 months of excellent service in various capacities.

❖ Mr. Chandramohan K S, Senior Photographer upon superannuation after completing 31 years and 7 months of excellent service in various capacities.

❖ Mrs. Usha M K, Junior Superintendent upon superannuation after completing 37 years and 3 months of excellent service in various capacities.

❖ Mrs. Mangala K R, Assistant upon superannuation after completing 34 years and 1 month of excellent service in various capacities.

❖ Mr. G Mohanan Nair, Assistant upon superannuation after completing 31 years and 6 months of excellent service in various capacities.

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Mega Marine Pride
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Pasuruan 67154, Indonesia
Tel: +62343656446
Fax: +62343656195
Mob: +628123507408
E-mail: production@
megamarinepride.com
Web: www.ptmmpride.com
Vannamei shrimp small size

2. Miya

Hongkong Meng Yuerui
International Import and Export
Trade Co. Ltd.
703A, Building A, Li hai Asia
International,
Zhong Jian Road 9,
the Asian Business District,
Nanning, Guangxi
Tel: 7715785203
E-mail: 894349029@qq.com
*Vannamei, shrimp (medium,
small, big)*

3. Ana Fernanda Molina Corrasco

Sealact Honduras Export and
Import
USA
Tel: +50427813568
E-mail: anamolina@
selacthonduras.com
Web: www.selacthonduras.com
L. Vannamei

4. Lt Low

SMS Food Pte Ltd.
99, Bokit timah Road # B2 01,
Alpha Center, Singapore 229835
Tel: 6563378662
E-mail: ltlow@live.com
Web: www.sms.food.com
Vannamei, Black tiger

5. Diao Xin Yang

Xiao Jiao Niking Food Ltd.
China
Tel: 13998605158
Shrimp (30-40)

6. Thachopong Bejnakashem

Foodway Co. Ltd.
Thailand
Tel: +6631021971
E-mail: getfoodways@gmail.com
Cooked shrimp

7. Frank

Sky Marine Business
Tel: +8613785708811
Mob: 13785708811
E-mail: 1427657118@qq.com
Vannammei small (40-50)

8. Huang

Tian jin
China, Tianbin
Tel: 15320117778 – We chat
E-mail: 4975 14785@qq.com
Black Tiger shrimp

9. Narupon (Jay)

Tanaraksirithaworn
S Ruamthai Co. Ltd.
24/15, Moo 1 pharam 2 road,
Bangnumcherd, Muang Dist.,
Samutsakorn, Thailand 74000
Tel: +66(0)34441871
Fax: +66(0)34441870
E-mail: s_ruam@thaisquid.com
Web: www.thaisquid.com
Dried shrimp

10. Geng Guangwen

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E-mail: gl.seafood@live.ca
Shrimp

11. Susana Liao

Sushi Express Co. Ltd.
Taiwan
Tel: 8863327033
E-mail: susanaliao@
sushiexpress.com.tw
Frozen shrimp

12. Ou Wu

Yong Fa Seafood
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Dianbai, Gangdong, China
Tel: 668 5342458
E-mail: 1461635879@qq.co
Vannamei shrimp

13. Lu Van Phe

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CA Mau City, Vietnam
Tel: +847803839365
E-mail: Salesmanager@cases.com.vn
Web: www.cases.com.vn
*Frozen shrimp Vannamei big
size*

14. Mireya Carrenze

Ancl Venko
Colombia
Tel: 3185484044
E-mail:
mireya.carrenza@anclayviento.com
Vannamei (frozen)

15. Wang Yan Yu

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- 16. Ralph**
United Aquaculture Ltd. Co.
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E-mail: she_eer@yahoo.com
We chat: zombies_invision
Shrimp head-on
- 17. Mrs. Mona Wu**
East China Seas holdings,
C 1904, HuaPu Garden, No. 9,
Dong Zhimen, South Street,
Beijing, P R China , 100007
Tel: +861064096818
E-mail:
purchase3@eastchineseas.com
Web: www.eastchinaseas.com
*Shrimp (Vannamei), Headless
(Block) (IQF) whole*
- 18. Edith Najib**
Las Montanas Supermarket,
Las Montas Supermarket
No. 3,
13901 San Pablo Avenue,
San Pablo, CA 94806, Canada
Tel: 9253825271
E-mail: edithnajib@yahoo.com
Headless Vannamei shrimp
- 19. Zhn Meng**
Hiri Tong Seafood Co. Ltd.
Tel: 1328345 1666
Vannamei (16-20, 100-120)
- 20. Sai Guocheng**
Dalian Huasheng Aquatic
Products Co. Ltd.
Dalian Zhuanghe Heidao Resort,
China
Tel: +8641182876677
Shrimp
- 21. James Sun**
Dalian Shenghui Food Co. Ltd.
Yida New World Plaza A,
No. 68, Jinyestreet,
Xigang District Dalian,
China 116001
- Tel:+ 8615942885588
E-mail: sunzhixu@msn.com
Vannamei shrimp
- 22. Tony Li**
Ocean Dragon JJ Seafood Co.
Ltd.
Room 5, 36th Floor,
New Times Business Center,
Main Building No. 456,
Wuluo Road, Wuchang District,
Wuhan, China
Tel: +86 27 8773 9520
E-mail:
oceandragon4tony@gmail.com
Vannamei shrimp
- 23. Pen Fen Long**
Xin Da Seafood
Shandong, China
We Chat: 18860540678
Dried marine shrimp
- 24. Julian**
Qingdao ESF Trade Co. Ltd.
Rm 2202, 22F, (Cyberport),
Flagship Building, No. 40,
Middle Hongkong Road,
Qingdao, China
Tel: 53286677760
E-mail: Julian@esftrade.com
IQF frozen shrimp
- 25. Jackson Kung**
Toei Reefer Line Limited
8th Floor, Shibakoen Building
No. 5-5, Shiba 3-chome,
Minato-ku, Tokyo,
Japan 105 0014
Rm 406, No 2, Yugang M, 1st
Road, Chianjen Dist., Kaohsiung,
Taiwan, ROC, 80672
Tel: +81354762082/
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Mob: +886931160067
E-mail: kyo@toeireefer.jp
Dried shrimp
- 26. Xu Sheng Pong**
Xu Sheng Pong Ltd.
Dongbei, China
Tel: +8613804173903
(We chat)
Dried shrimp
- 27. Liang Da Dan**
Qing Dug Zgd International Co.
Ltd.
China, Qingdao
Tel: +86 53255713311
E-mail: nina@zgdfoods.com
Frozen shrimp
- 28. Zhang Li Juan**
Zhan Jiang Heng Yi Aquaculture
Ltd.
China, Zhengzhn
Tel: 13283715918
White shrimp, Vannamei
- 29. Bu Fan Ji**
Yong Hai Seafood
Shandong, China
Tel: 13804874777
E-mail: 347883856@qq.com
Shrimp
- 30. Wu Jiuzhou (Joe)**
Blossom Commercial Limited
Room No. 2625, Luer Building,
Xinghua Street No. 5,
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E-mail:
joe.wu@bls-commercial.com
Frozen raw shrimp

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Fax: +86755 23905497
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Ribbon fish
- 3. Zheng Xiong**
Mu Guo Business Company
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E-mail: 3861 6868@qq.com
Ribbon fish, Yellow croaker
- 4. Wn Chun**
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E-mail – wvchanduna@163.com
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Silver Pomfret
- 6. Chen Jixiang**
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Tel: +865965887877
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E-mail: haikui@21cn.com
Ribbon fish
- 7. Olive Qi**
Export Packers Company Limited
107 Walker Drive Brampton
Ontario Canada L6T 5K5
Tel: +905 792 9700 Ext 4475
Fax: +905 792 7421
E-mail: olive_qi@exportpackers.com
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- 8. Marcol Gong**
Grand Harvest Foods Co. Ltd.
Room 2004, 2nd Building of Jinhua Rooming House No. 100
Nanjing Road, Qingdao City, China 266071
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Fax: +86 532 85806182
Mob: 13854256901
E-mail: ghfoods@vip.163.com
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Hua Hai Xing Cheng Seafood
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Tel: 13703276627
Silver Pomfret
- 10. Wang Hui Zhong**
Xiao Wang Seafood
China
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E-mail: 1004742287@qq.com
Ribbon fish, Yellow croaker
- 11. Sofia**
Foodspath Ltd.
China Beijing
Tel: 18604670052
E-mail: AE03@foodspath.com
Ribbon fish
- 12. Bian Yu**
Rongcheng Puchen Aquatic Co. Ltd.
China Shandong Province
Tel: +8618816309823
E-mail: 2425649419@qq.com
We chat: bianyu1858
Web: www.rcpcsc.com
Ribbon fish
- 13. Lilei Guan**
Dalian Haihui Yongchang Trading Co. Ltd.
China
Tel: +8615898102067
E-mail: fishtop100@hhycdl.com
Web: www.haihuiyongchang.com
Ribbon fish
- 14. James Zhang**
Shanghai Sino International Trading Co. Ltd.
1 SF Junjiang International Building,
No. 228, Ning Guo Road, Yang Pu District, Shanghai, China
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Beijing Xingda Xinyuan Aquatic Products Company
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We chat: 13701111619
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- 16. Miao Yue Ging**
Sheyang Guan Feng Food Co. Ltd.
China Jiangsu Province
Tel: 051582758728
Ribbon fish

- 17. David Zhou**
Dalian Buyfresh Food Co. Ltd.
Room 1316, Mingshi Fortune
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No. 20A, Gangwan Street
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China
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Mob: 13079827888
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Sole fish, Ribbon fish
- 18. Allen Wang**
Binary Star Trading Company
Limited
No.3 1404 room, Quan Shui Bay
Building. Gang Zing, Zi District,
Dalian, 116600, Liao Ning, China
Tel: +86159 41167107
E-mail: aiyuseafood@foxmail.com
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Ribbon fish
- 25. Lu Xin Qing**
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Qingdao, China
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Ribbon fish
- 27. Chen Jie**
Fuzhon City Mawei district Ding
Feng Trading Co. Ltd.
Mawei Dist. Ting Jing,
Zhen Chang Bing Village,
Fuzhou Cita,
58 # floor 1, Room 101
(Pta experiment area) China
Tel: +8613075889965
E-mail: chenchen77726@163.com
Ribbon fish
- 28. Li Wei**
Shijiazhuang Yulifeng Seafood
Co.
1,301,Room 301, Bldg. 1, Block
B, Kaixang Cheng, Qiaodong
District, Shizizhang City, China
Tel: 13180588859
Mob: 15227111771
E-mail: ylf@ylfseafood.com
Ribbon fish
- 29. James Zhong**
Aeon (China) Co. Ltd.
Room 301, Long Bao Bldg.
No. 36, Maizidian,
Chaoyong District,
Beijing, China P C: 100125
Tel: 15800228063
E-mail:
James_zhong@aeonchina.com.cn
www.aeonchina.com.cn
Ribbon fish
- 30. Wei Xian Ch Uan**
Heilongjiong Hongkong Trading
Co. Ltd.
China Heilongjiang Province
Tel: 156 4517 7133 – We chat
E-mail: 976479193@qq.com
Grouper (large) whole
- 31. Du Su na**
Wei Hai Hai Ri Agriculture Ltd.
Shandong, China
Tel: 15698213805
E-mail: whr_dusuna@vip163.com
Ribbon fish, Silver Pomfret
- 32. Huang Xwe Ning**
Tiang Feng Seafood
China Shanxi Province
Tel: 18634553328
E-mail: 934980516@qq.com
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- Tel: +67439300/66101279
E-mail: enfrozen@hotmail.com
Indian mackerel, Silver Pomfret
- 34. Zhong Ali Ling**
Guan Dong Jiang Men Co.
China
Tel: 133 9262558 (We chat)
E-mail: 707447830@qq.com
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Hong Nuo Seafood
China, Shandong
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Ribbon fish, Yellow croaker
- 36. Jin Yan xi**
Jin Yanghai Seafood
China Shandong Province
Tel: 13963051588 (We chat)
Ribbon fish
- 37. Zhong Bao Wei**
Baowei Seafood
China Henan Province
Tel: +37189996330
Ribbon fish
- 38. Rao Feng**
Rao Feng Seafood
China Tianjing Province
Tel: 139 0208 1387 (We chat)
Silver Pomfret, Ribbon fish (A/B)
- 39. Lin Ji Chang**
Jin Qin Seafood
China Guangzhon Province
Tel: 755 82640525
E-mail: 599255963@qq.com
Ribbon fish
- 40. Greg**
Gunagdong Yonth seafood Co.
Ltd.
#1, south West Road, Dianbai,
Gangdong, China
Tel: +8618129800086
E-mail: Yongfa_seafood@163.com
Ribbon fish, Pomfret
- 41. Sun**
Xiamen YMJ Trading Co. Ltd.
Room G, 11th Floor,
Jinlo Bldg. #252, Dongdu Road,
Huli, Xiamen, China
Tel: +8613959287136
E-mail: yefang_xm@163.com
Ribbon fish
- 42. Li Bao Lin**
Kun Yuan Seafood
China Jiangsn Province
Tel: +813656 6923
E-mail: 911910776@qq.com
Ribbon fish 300-400, Silver Pomfret
- 43. Sun Yuanri**
Shenyang New Sea sun
Intemotion tiade Co. Ltd.
17 Honghu, 2nd Street,
Economic and Technological
Development Zone,
Shenyang, China
Tel: +860242518129
E-mail: sunyuanri18@aliyun.com
*Silver pomfret, Ribbon fish,
Yellow / white croaker*
- 44. Jane Li**
Pure Fresh International
Holdings Co. Ltd.
China
Tel: +8675729291970
E-mail: lixy@pzfresh.com
Web: www.pziriesh.com
Ribbon fish
- 45. Kevin**
Kevin Company
China Shandong Province
#17-14-54, Yihaicuiting Garden,
ATDA, Yantai Shandong, PR
China
Tel: +8615506650516
E-mail: Kevin@ytenyang.com
Ribbon fish
- 46. Olog Podgurskyy**
Baltref Service Ltd.
Tel: 5513996089878
E-mail: olexp@icloud.com
Web: www.baltreservice.ru
Frozen tuna for canning
- 47. Wang Ziteng**
Hai Yang Frozen Seafood
China
Tel: 18663825113 – We chat
E-mail: dztwtx@163.com
Croaker, Ribbon fish
- 48. Wang Ai Hua**
Hong Yang Seafood
China Shandong Province
Tel: 18653122165 – We chat
E-mail: 178290665@qq.com
Frozen Ribbon fish
- 49. Sha**
Linergy fisheries
Hongkong
Tel: +8613560414859
E-mail: shaping01@hotmail.com
Dried anchovies
- 50. Semy**
Guangdong Heying Cold Fresh
Food Co. Ltd.
China
Tel: +8606622202777
Fax: +8606622208220
E-mail: semyhuang2006@126.com
Web: www.heyingg.com
Ribbon fish
- 51. Cao Fujie**
Lu Shun Business Company
China Shandong Province
Tel: 153 3534 8799 – We chat
Ribbon fish
- 52. Samuel Chen**
Zhong Chgeng Food Co. Ltd.
Tel: 20 81259675
E-mail: gzjinwan@163.com
Web: www.es-island.com
Ribbon fish

- 53. Jewel Wen**
Shenzhen Taizhou Industrial Development Co., Ltd
Room 3605-08, Landmark #4028
Jintin Road, Futian Distt.
Shenzhen PC 518035
Tel: +8675582789922- 633
Fax: +86-755-88603851
E-mail: jewel.wen@szaizhou.com
Ribbon fish, Pomfret
- 54. Cong Minhua**
Dalian HaiHua Aquatic Products
Dalian, China
Mob: 13555943263
E-mail: congminhua@126.com
Ribbon Fish
- 55. Ben Burney**
Pendarves Limited
80 c, Takanini School Road,
Takanini, PO Box- 178,
Auckland, New Zealand
Tel: +6492961033
Mob: +6421733210
Frozen Ribbon fish
- 56. Gansu Jinfo Agribusiness Development Company Limited**
China
Tel: 18139736166
Frozen Ribbon fish
- 57. Liu Lishi**
Bingsheng Seafood
Beijing, China
We chat: 135523228299
Frozen Ribbon fish
- 58. Kongjude Shipin Youxiangongshi**
Shandong, China
Tel: 5304368988
E-mail: 1161767651@qq.com
Frozen Ribbon fish
- 59. Xing Chuan Ge**
Risheng Seafood
Shandong, China
Tel: 18863126999
Frozen Ribbon fish
- 60. Liv De Jian**
Hua xing Yuan Seafood
Qingdao, China
Tel: 13906426058
Silver Pomfret
- 61. Sandy**
Chaaya Group (HK) Ltd.
39-19 Unison St. 3FI Flushing,
NY 11354, Hongkong, China
Tel: +85237088612
Mob: +852-60329282
Frozen Ribbon fish
- 62. Chen Dao Biao**
China
Tel: 15005171114
We Chat: aaa930111631
E-mail: 930111631@qq.com
Ribbon fish
- 63. Toby Xue**
Silvcorp (Qingdao) Co. Ltd.
Rm A310, Orient Business Building,
No 268, Ninxia Road, China
266071
Tel: 53285971770
E-mail: silvfoods@gmail.com
Ribbon Fish
- 64. Wei Zhu**
Shanghai Nubiz International Co. Ltd.
1503 Pu Fa Plaza, 1759
Zhongshan Road North,
Putuo District, Shanghai, China
Tel: 400883 7662
Mob: +86138 7830 113
E-mail: wei_zhu@nutrade.com.cn
Frozen Grouper, Ribbon fish
- 65. Sun Jing Sheng**
Sun Jing Sheng Ltd.
Shandong, China
Tel: 13954484836,
183693700 56 (We Chat)
Ribbon fish
- 66. Yao Ming Zhu**
Lin Yi Ming Zhu Ltd.
Lin Yi, China
Tel: 132 87173366 (We Chat)
Ribbon fish
- 67. Liu Yan Chen**
Shandong, China
Tel: 15216556568 (We Chat)
Frozen Ribbon fish
- 68. Gao Tong Guang**
Elysia Ltd.
Niyena, Tanzania
Tel: +255659 768989
E-mail: 1248926051@qq.com
Indian mackerel
- 69. Xia Lai Xi**
Xu you Seafood Retail Co.
China, Chongqing
Tel: +13996199926 – We chat
Ribbon fish
- 70. Tco Kim Bock**
San San Frozen Food Marketing SDN Ltd.
No. 6 & 8 Jalan
Perdagangal 10,
Taman University Industrial Park,
81300skudai, Joharvahu,
Johor, Malaysia
Tel: +6075205881
E-mail: sansanfood@gmail.com
Web: 6012 784 0424
Black Pomfret
- 71. Vincent Huang**
Shanghai Zuotong Food Company Limited
Shanghai City Guohe Road and
490 Jin Hong Building 1012
room, Shanghai

Tel: +8618317000478
E-mail: bsw4444@vip.163.com
Ribbon fish, Croaker

72. Xiao Jianwe

Seawater Production
Xinjiang, Urumqi City
Haihong International logistic Port,
Xinjiang Economic Development
Zone, Urumqi City, China
Tel: +8613809911
Ribbon fish, Croaker

73. Wang Jin Yan

Baoding Fishery Ltd.
China
Tel: 139 03222773
Ribbon fish

74. Zhang Ke You

Xing Hua Ltd.
China
Tel: 13609311288 (We chat)
Ribbon fish

75. Caroline (Sichen)Liu

Beijing guochangweiye Trade
Co. Ltd.
4702W7thAve, Vancouver,
bc, Canada V6T 1C6
Tel: +647 996 8956
E-mail: carolineliu@gcglobal.ca
Frozen Ribbon fish

**76. Du Huan Tian Jin Yi ang
International Ltd.**

Tel: 13920449737
E-mail: 375077971@qq.com
Ribbon fish

77. Pan Ming Jie

Da Lian AO Yui Ltd.
China, Dalian
Tel: 13998545673 (We chat)
E-mail: christinaangle2012@163.com
Ribbon fish

78. Karith Pratharm

Fatima Foods Products Co. Ltd.
170/45soi4 Moo 17
Salatasop Road, Tawowatana
Bangkon-10170, Thailand
Tel: +66909860808
E-mail: karith.sq@gmail.com
Indian mackerel

79. Chao Wang

China
Tel: 13700005669
E-mail: 49843836@qq.com
Sole fish, Silver Pomfret

80. Song Yanyong

China, Beijing
E-mail: pb@luxing.net.cn
Ribbon fish

81. Nin Jinzhong

Long Hai Seafood
China
Tel: 13906363248/ 13506494195
E-mail: wzscool@vip.qq.com
Ribbon fish

82. Jiang Fashun

Yongshan Seafood
China, Qingdino
Tel: 177532 6666
We chat: 13105187766
Silver Pomfret

83. Mu Dehua

Rongcheng Derong Food Co.
Ltd.
China
Tel: 15063150078
E-mail: mudehua007@hotmail.com
Ribbon fish

84. We Jing Hua

Fuzhou Xin xinghai Food Trade
Co. Ltd.
Fuzhoumawei Distt Building,
11th Floor, Green Iceland,
Lufujim Aquatic 11

Tel: + 59183682883
E-mail: 820178146@qq.com
Fax: +59183682883
Mob: +13763833053
Ribbon fish, Yellow croaker

85. Zhao Fa Pei

Qingdao Junlin Hai Chan Co.
Ltd.
China
Tel: 13706302088
E-mail: ying936@live.cn
Ribbon fish

CEPHALOPODS

1. Chris Chan

Hong Kong Food (Group) Co.
Ltd.
Unit – A-C, 22/F, Billion Plaza 2,
No. 10, Cheung Yue Street,
Cheung Sha Wan,
Kowloon, Hong Kong
Tel: (852) 2711 3000
Fax: (852) 2711 3999
Mob: (852) 9790 2014
(852) 9559 0391
E-mail: chrischan@hkfgroup.com.hk
Cuttlefish whole cleaned

2. Lake Feng

Sunkfa International Food
(Beijing) Co. Ltd
No. 7, Jingsheng Middle St,
Jinquo Technology Industry
Base, Najuquo dong, Tongzhou
Distt. Beijing, China 10 1102
Tel: +861056912777
E-mail: lake@sunkfa.com
Web: www.sunkffa.com
Frozen whole Lobster

3. Lzv Yv

Ri Xziv
China
Tel: 15263119922
E-mail: 739113265@qq.com
Cuttlefish, Squid

- 4. XU Xian Guo**
Jinan Shuang Yuan Co.
China
Tel: 18769518888(We chat)
E-mail: 670321959@qq.com
Cuttlefish
- 5. Manuel J Olea**
Frimapesca
Spain
Tel: 34629561631
E-mail: manuel@frimapesca.com
Web: www.frimapesca.com
Squid, Baby squid, Cuttlefish
- 6. Yang Gao bo**
Xiang Yu Logistics Ltd.
China
Tel: 5356686318, 1531868675
E-mail: Paulo00@126.com
Frozen Squid, Octopus
- 7. Lin Xiao Hui**
Chongqing Hotpot International
Supply Chair Co. Ltd.
China
Tel: +8805772269/
13857711198
Squid
- 8. Fan Chao Kiao Fan Chao Bics Ltd.**
Fojian, China
Tel: 13313775677
E-mail: fzjhy@vip.163.com
Frozen Cuttlefish
- 2. Wang**
Zhua Seafood
China
Tel: 1384159502
13898518222 We chat
Fax: +8604157552828
E-mail: 86674656@qq.com
Live Baigai (Whelk)
- 3. Jacky Chen**
Chengdu Coast Import & Export
Trading Co. Ltd.
Level 36, Yanlord Landmark
Tower,
No. 1, 2nd Section Renmin South
Road,
Chengdu 610016, China
Tel: +862865110623
E-mail: info@coastimportchina.com
Frozen Baigai, Ribbon fish
- 4. Wang Dui**
Hong Rum Frozen Food
Company
China Jiang Su Province
Tel: 13771908758/
0512-66188536
Dried Jelly fish
- 5. Zhao Xiang Lun**
Qixiang Imp & Exp. Business Co.
Ltd.
China
Tel: 15278188829, 13377093398
E-mail: 15278188829@163.com
Ribbon fish, Shrimp
- 6. Roger Wong**
Asian Food Culture Pte Ltd.
15, Jalan Tepong
#03-04 Jurang Food Hub
Singapore 619 336
Tel: 659637 0047
E-mail: roger@asianfoodculture.sg
Squid, Ribbon fish
- 7. Gaobo Yang**
Yantai Xiangyu Co. Ltd.
Room 3803, No. 158-3
Nanda Street, Yantai, China
Tel: +86 535 6686318
Fax: +86 535 6682928
Mob: +8615318686776
Web: www.ytxiangyu.cn
E-mail: PAUL000@126.COM
Dried shrimp, Frozen Squid
- 8. Wayne Wu**
Suki Group of Restaurants
Singapore
Tel: 68580880
Fax: 66360880
E-mail:
waynewu@sukigroup.com.sg
*Mud crab live or fresh, White
shrimp, Ribbon fish*
- 9. Anita Yuan**
YM Oversea Trading Co. Ltd.
No. 338 Huanshi Dong Road,
Yuexiu District, Guangzhou,
Guangdong, China
Tel: +8613922622090
Mob: +8613922622090
E-mail: anitayuan292@outlook.com
*Ribbon fish, Shrimp, Cuttlefish,
Squid*
- 10. Lin Yi Hong**
Guanghon Red Thread Frozen
Food Co. Ltd.
China Guangdong Province
Tel: 02081516400
E-mail: linyihong@maidongpin.com
Web: www.meidongpin.com
*Ribbon fish, Baigai, Yellow
croaker*
- 11. Candy**
Tianjin Yitc Frozen Seafoods Co.
Ltd.
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MIXED ITEMS / OTHER

- 1. Pan Haiyan**
Export Manager
Taizhuo Haihue Aquatic Products
Co. Ltd.
268 Yangang Road, Diaobang,
Shitong Town, Wenling City,
Zhejaing PC : 317511, China
Tel: +8613918996668
E-mail: haihua55@
seafoodhaihua.com
Ribbon fish, Squid

- District Tianjin. China
Tel: 15822462685
E-mail: candyyhc@163.com
All kind of frozen seafood
- 12. Qu Luyuan**
Shandong Rongsense Marine Development Co. Ltd.
#239 FUYang Road, High tech, Rizhao Shandang, China
Tel: +866332225519
Fax: +866332189991
E-mail: lewisseafood@163.com
Web: www.rongsense.com
Cuttlefish, Yellow croaker
- 13. Tony Zeng**
China Sinopharm International Corporation
Rm2706, Fortune Tower 1, No. 4, Hui Xin Dongie, Chao Yang District, Beijing 100029, China
Tel: +861084663809
Fax: +86108463910 3695 /84663776
Mob: +13520153424
E-mail: food@sinopharmintl.com
Cuttlefish, Black tiger, Ribbon fish, Vannamei
- 14. Shiho Mogami**
Maehama Co. Ltd.
Anwatakaracho Bldg # 203, 4-1-3, Hatchobori, Chou-Ku, Tokyo – 104 0032, Japan
Tel: +81362628907
Fax: 81362628908
E-mail: mogami-sh@maehama.ecnet.jp
Shrimp, Squid
- 15. Chen Lui Tun**
Shang Ha Yu Wing Dao Co. China
- Tel: 1851297111 (We chat)
E-mail: 159817287@qq.com
Shrimp, Ribbon fish
- 16. Riyas Hasan**
As you Fish
827 B Jumeiroad, UMM Suqueim – 3, UAE, Dubai
Tel: +971551919266
E-mail: contact@asyoufish.ae
Live Lobster, Crab, Baigai
- 17. Sun Guang**
Rushan City Oyster Foods Co. Ltd.
China, Shandong, Weihai
Tel: 6316321977
E-mail: 13863033993@139.com
Squid, Shrimp - Karikkadi
- 18. Hailey**
Qingdao HPS Industrial Co. Ltd.
#1302 Llcang, Distt., Qingshan Road, Qingdo City, China
Tel No. +86 15315509981
E-mail: hailey@hpsindustry.com
Ribbon fish, Snail, Cuttlefish
- 19. Nina Li**
Xiamen Zuoda Imp & Exp Co. Ltd.
Add. 189 Lian Yue Road, First floor of Ren He Building Wuy
Industry and Trade, Siming District, Xiamen City of China
Tel: +8605925961293
E-mail: nina_li@xmzuoda.com
Web: www.xmzuoda.com
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Shinko Trading Corporation
10F Horizon, 1 Bldg, 3030-16 Nishiwaseda,
Shinjuku –ku, Tokyo
Tel: 0362339710
Fax: 0362738710
E-mail: su@shinko-corp.com
Web: www.shinko-corp.com
Surimi
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Zhoushan Pinskey Foods Co. Ltd.
Marine Organism Industry Zone Shenjiamen Putuo District Zhoushan Zhejiang, China
Tel: +865803311212
Fax: +865803310888
E-mail: tangliner43@163.com
Web: www.pskfoods.com
Shrimp, Squid
- 22. Nick Luo**
OUDE Group Limited
No. 19, Ziawang Village, Yiwu City, Zhejiang, China
Tel: +86579851813357
E-mail: oude@live.cn
Web: www.cnoude.com
Ribbon fish, Squid
- 23. Lin Tai Hao**
Hai Wei Da Fishery Food Ltd. China
Tel: 13602445578 (We chat)
E-mail: haiweidashuichan@163.com
White Shrimp, Baigai
- 24. Yang Xue bo**
Rizhao Xue Bo Fishery Co. China
Tel: 13563320778 (We chat)
Shrimp, Fish
- 25. Han Wenq King**
Tianjin Fisheries Group XinHuiDA Sales of Aquatic Products Co. Ltd.
Hedong Distt of Tianjin

Weiguodao #69, PC 300300.
China, Tianjing Province
Tel: +13802166562
E-mail: scjtxhd@sina.com
Ribbon fish, Shrimp, Pomfret

26. Bu Jing Qiu

Sunkfa Seafood
China, Beijing
Tel: + 86 1892256464
E-mail: bujingqiu@sunkfa.com
Web: www.sunkfa.com
Frozen Baigai

27. Zeng Jian Ping

Jin Tai Seafood
China, Tianjing province
Tel: 13902162978
E-mail: 465600781@qq.com
Ribbonfish, Headless shrimp

28. Liyuan

Seacaught Farm
Beijing, China
Tel: 13614731821
Ribbon fish, White shrimp

29. Hao Liang Shan

Qingdao Taifeng Aquatic
Product Co. Ltd.
Xiagangyan Road,
Qingdo, China
Tel: 13808995391
E-mail: taifengs2819237@163.com
All kinds of seafood

30. Liu Ying

Tianjin FTZ Yujfpu Global Co.
7th floor, Jinli Bldg, Xingang
Road,
Binhi New Area, Tianjin (300452)
Tel: +8618622084728
E-mail: dony_liu@qylogistics.com
All frozen seafood

31. Jerry Liu

Lequality Life Ltd.
#99, SEC 1, Gguotaird,

Fengshan dist. Kaohsiung City,
830 (ROC), Taiwan
Tel: +886916056515
E-mail: purchase02@lequality.com
Web: www.lequality.com
Silver Pomfret, Tiger shrimp

32. Qiu Shi Yue

Heng ji Gong Zhi Company
China Gongdong Province
Tel: 13902735269
E-mail: Sthengji@21cn.com
All kinds of seafood

33. Wu Zu Xian

Guan Nan Company
China
Tel: +8613922622090
E-mail: wht58@vip.sina.co.in
All kinds of frozen seafood

34. Ming

Qwgdad Shica
Tel: 13969623221
E-mail: info@vixiang-tex.com
Frozen cuttlefish, Frozen shrimp

35. Hai Bao Hai Wei Company

Tel: 13929511608/ 13533578348
E-mail: 13929511608@139.com
Baigai

36. Xu Quan

Da Tian Kang International Ltd.
Tel: 18377036958
E-mail: xq737@allyun.com
Ribbonfish, Cuttlefish bone

37. Felicity Jane

Chengdu Coast Import & Export
Trading Co. Ltd.
Level 36, Yanlord Landmark
Tower,
No.1 Section 2, Renmin South
Road,
Chengdu, Sichuan,

China 610016
Tel: +862865110623
E-mail:
felicity881211@coastimportchina.com
Web: www.coastimportchina.com
Frozen Baigai

38. Liu Ting Jian

Daping Aquatic Product Trading
Co. Ltd.
Room 101, 29# Depart Feicui
Qinghe, Jinan City, Shandong
Province, China
Tel: +8653188663019
E-mail: dapingshuichan@sina.com.cn
Ribbon fish, Shrimp

39. Andy Yang

Chengdu Coast Import & Export
Trading Co. Ltd.
Level 36, Yanlord Landmark
Tower,
No.1 Section 2, Renmin South
Road, Chengdu, Sichuan, China
610016
Tel: + 8617723302370
E-mail:
annndy@coastimportchina.com
Web: www.coast.importchina.com
Frozen Baigai

40. Elena Petrik

Ascania Frozen Foods
Kharkov Road, 23km,
B.4 Kiev, Ukraine
Tel: +380442064660
E-mail: e.petrik@ascania.ua
Shrimp, Squid

41. Zoulei (dept no. 3)

Chinatex Raw Material
International Trading Co. Ltd.
Chinatex Mension No.19,
Jianguomennei Street Beijing,

- China 100005
Tel: +86010652811220831
E-mail: zoulei@chinatex.net
Web: chinatex.com
Shrimp, Yellow fin tuna, Ribbon fish
- 42. Jasan Yang**
Qingdao Hongfan Foodstuff Co. Ltd.
No.004183, XI Guoyuan
Community, Liuting Sub district
Chengyang District Qingdao, China
Tel: +8613780607788
E-mail: san9418@qq.com
Bombay duck, Dried shrimp
- 43. Yican**
Beihai Hystone
E-mail: quinteybh@hotmail.com
Tel: +86 158 6426699
Ribbon fish, Octopus, Vannamei
- 44. Lin Ruxin**
Fujian Hongsheng Aquatic Products Trade Co. Ltd.
No. 19, Mingcheng cold storage,
No. 66, Qingzhou Road,
Nawei District, Fuzhou City,
China
Tel: 59183681602
E-mail: linraxin.888@163.co,
Squid, Ribbonfish, Croaker
- 45. Mo Xiao Dong**
Shanghai Seeya Aquatic Products Trade
Vhina Jiangsu Province
Tel: 13661648420
E-mail: bjdbjdbjd@hotmail.com
Jellyfish
- 46. Cyril Lee**
Oceanic Food
615 Warrigal Road, Ashwood,
Victoria 3147, Australia
Tel: +61395630555
E-mail: cyril.lee@oceanic.com.au
Web: www.oceanic.com.au
All seafood products
- 47. Lin Pieke**
Shufa Wholesale
Shanghai, China
Tel: 15888311364
Ribbon Fish, Croaker, Cuttlefish, Silver Pomfret
- 48. Xie Shao Lin**
Guan Yuan Limited
Guangdong, China
Tel: 75488976858
Ribbon fish, Cuttlefish
- 49. Jing Gui Ping**
Hua Sheng Fishery Co.
China, Zhengzhou, Henan
We chat: 13676978445
E-mail: 1053841474@qq.com
Ribbon Fish, Others
- 50. Sia Boon Lan**
Global Nexus Seafood Sdn Bhd
PT 2484, Kawasan Perindustrian
Nilai 2, Block D, 71800 Nilai,
Negeri Sembilan, Malaysia
Tel: 67943088
Mob: 6012626 0123
E-mail: blsia@hotmail.my
Ribbon fish, Live Lobster
- 51. Lin Pei Ke**
Shanghai Jiahong Ltd.
Shanghai, China
Tel: 13736882293
E-mail: 197132302@qq.com
Ribbon fish, Octopus
- 52. Shen Gui Lan**
Wuhan Shengya Limited
Shanghai, China
Tel: 15327113863 (We Chat)
Ribbon fish, Shrimp
- 53. Liu Juan Zheng Shanyhai**
China
Tel: 13916611756
E-mail: ysbh13817@gmail.com
All kinds of frozen seafood
- 54. Liu Ying Yujia Pu Free Trade Zone**
Tel: +22 286 22278
E-mail: dony_lin@qylogistics.com
All kinds of frozen seafood
- 55. Du Jiang**
Pan Euro Foods
Ireland UAE
Tel: +8618806336911
E-mail: du.paneurofoods.ie
Shrimp, Vannamei, Black tiger, Squid rings
- 56. Thompson**
Yuan Qing Seafood
Fuzhon
Tel: 13825020275
E-mail: thompsonlee@126.com
Ribbon fish, Squid
- 57. Hai Le**
Rankoil (Xiamen) Industrial Co. Ltd.
Haicang district Haicang avenue
No. 893 Oil Trade Center B-2206,
Xiamen, China
Tel: +865926539366
E-mail: haile@rankoil.com
Web: www.rankoil.com
Ribbon fish, Cuttlefish, Squid
- 58. Wang Zhiya**
Zhisheng Seafood
China Shandong
Tel: 15668144448
All kinds of Seafood



Leading the way in food hygiene and packaging.

At Sealed Air Food Care, we improve access to a safer, higher quality and more sustainable sea food supply chain.

Our innovative packaging and hygiene solutions and expertise help build our customer's brands and improve food safety, shelf life and operational efficiency while reducing food waste.



FOOD SAFETY

Ensuring food safety is a top priority at Sealed Air, and our unique combination of Diversey™ hygiene and Cryovac® packaging solutions addresses food safety concerns throughout your entire process.



OPERATIONAL EFFICIENCY

With our total systems approach, we are able to view your entire business, and then optimize each section and create cost efficiencies that translate into increased sustainability and revenue.



SHELF LIFE EXTENSION

Creating quality shelf life is a crucial differentiator for running a successful process. We help you extend shelf life and reduce food waste through comprehensive hygienic procedures and innovative packaging systems.



BRAND BUILDING

All stakeholders in the value chain seek to strengthen their brands and grow customer loyalty. We help our clients stand out from an overwhelming number of choices in the marketplace.

CRYOVAC

Diversey

Sealed Air India Pvt. Ltd.

501 5th Floor Ackruti Centre Point, MIDC Central Road, Andheri (E), Mumbai - 400 093, India
 Phone: +91 22 66444222 • Fax: +91 22 66444223 • Toll Free Helpline: 1800 209 2095 • Email: foodcare.india@sealedair.com