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#### **ISSN No.2231-5063**



AN ECONOMIC STUDY OF FISH PROCESSING WORKERS IN THOOTHUKUDIDISTRICT



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#### **ABSTRACT:**

here is a tremendous growth in the resources and infrastruc ture of the Indian seafood industry today. This paper attempts to examine quality of work lifeof fish processing workers in Thoothukudi District. The present study is based on both primary and secondary data

covered only six months period (2014). Percentage, averages, ranking method,

standard deviation and multiple regressionswere used for the analysis.It has been observed that the dominant fish processing workers relate to out of 75 workers majority (32 percent) of them belong to cleaning. It is followed by setting and canning (20 percent), grading (10 percent), peeling and cutting (12 percent), freezing (4 percent), Packing (8 percent), and loading and transporting (14 percent). Results onnature of work revealed that 75 percent of workers are skilled workers and the remaining 25 percent of workers are too unskilled workers in the fish processing units. The study revealed that 31% of



J. Moses Gnanakkan

014). ea hod, them is earning Rs.3000-6000 monthly, 40% are earning Rs.6000-12000 monthly, and the others 12% are earning above Rs.12000 monthly.

It is revealed that three of the variables were entered into the equation and the order of inclusion was as follows: Job satisfaction, quality of family life and income. As each of the additional was entered, the multiple R

and R2 increased. This indicates that job satisfaction quality of family life and income were the best set of predictors of quality of work life having a combined contribution of about 98 per cent. Allowing one of the independent variables to operate, while controlling the other variables in the equation, revealed that it was job satisfaction which had the highest contribution to the quality of work followed by the quality of family life and income respectively.Involvement of fish processing workers in all types of aquaculture practices should be encouraged. It is better to promote "men and women partnership firms" instead of exclusively women oriented enterprises. It is seen

the respondent's income up to Rs.3000, 17% of

that husband-wife enterprises with one or two helpers in fish processing marketing and other fishery related activity have better prospects.

**KEY WORDS**: fish processing, seafood industry, peeling and cutting, financial institutions, quality of work, marketing.

#### **INTRODUCTION:**

With the growing demand for Indian seafood products across the world, the dynamics of the seafood business in India is changing fast. There is a tremendous growth in the resources and infrastructure of the Indian seafood industry today. This implausible export growth of the seafood sector with very little assistance from the government is a tribute to the enterprise and resilience of the small Indian entrepreneur. The Indian Seafood Industry is comprised mainly of small and medium size family concerns and large corporate companies have almost no presence here. Even those that ventured withdrew due to an inability to manage the environment and dynamics of the industry. Very recently with the consolidation and systematization of the industry, large corporate companies have begun to invest in the Indian Seafood Industry.

Over 150 processing facilities have received European Union approval from the existing 350 processing facilities in India. The factories are located in 20 clusters along the East and West Coast of India and we need to develop these clusters into international seafood processing hubs. Globalisation has brought mixed socio-economic outcomes for men and women involved in the seafood industry. In Kerala there are 2703 fish markets comprising 185 wholesale and 2518 retail outlets which includes 1126 wayside markets (Anon., 2000).

If some people benefitted from new emerging work and business opportunities, for various reasons women tend to win less than men, and sometimes tend to even be left behind. On-going global changes are drastically altering the sharing of human, financial and natural resources on a worldwide scale, with a disproportionate effect on women. Research carried out on this topic indicates that women in coastal areas depending on seafood as a source of revenue or a source of food are particularly affected by these changes. Women's position in seafood processing in the developing world is remarkably similar to that of women in seafood processing in developed countries, albeit at a very different economic level (Macalister Elliot and Partners Ltd., 2002)

Income of processed fish was depending on the product size, specificdemand for particular species and quality of processes product. The similar finding was also taken in a dry fish market of West Bengal, India (Ghorai et al., 2014). The cost of processed fish depends on size, quality of species, transportation, labour and season (Faruque et al, 2012). Lacks of scientific temperament, infrastructure and transport facility are the major factor behind reduced cost of processed fish. Apart from these, deficient knowledge of market information and instability of price of product also affected the economic status of processed fish (Ghorai et al., 2014 andFaruque et al, 2012). The active involvement of women's was recorded during the investigation and it was also recorded worldwide (Kolawole et al., and Ghaly et al.,). Skinner and Ivancevich (2008) argued that Quality of Work Life is associated with adequate and fair compensation, safe and healthy working conditions, opportunities to develop human capacities, opportunities for continuous growth and job security, more flexible work scheduling and job assignment, careful attention to job design and workflow, better union management cooperation, and less structural supervision and development of effective work teams.

Judge, et. al, (1993), mentions that employee satisfaction is positively correlated with motivation, job involvement, organizational citizenship behaviour, organizational commitment, life

satisfaction, mental health, and job performance, and negatively related to absenteeism, turnover, and perceived stress and identify it as the degree to which a person feels satisfied by his/her job. This paper attempts to examine quality of work lifeof fish processing workers inThoothukudiDistrict.

# **VARIETY OF MARINE PRODUCTS EXPORTS**

	Quantit	20	20	20	20	20	20	20	20	20	200	201	201	201	201	201
Ite	y/	00	01	02	03	04	05	06	07	08	9-	0-	1-	201	3-	4-
m	Value	-	-	-	-	-	-	-	-	-	10	11	12	13	14	15
		<b>01</b> 11	<b>02</b> 12	<b>03</b> 13	<b>04</b> 12	<b>05</b> 13	<b>06</b>	<b>07</b> 13	<b>08</b> 13	<b>09</b> 12						
	Quantit	18	77	48	97	80	51	73	62	$60^{12}$	130	151	189	228	301	357
	y in ton	74	09	15	68	85	80	97	23	39	553	465	125	620	435	505
	y in ton	44	41	46	40	42	42	45	39	37	418	571	817	970	193	224
	Value in	81.	39.	08.	13.	$\frac{12}{20}$ .	71.	06.	41.	79.	2.3	8.1	5.2	6.3	68.	68.
	Crore	51	92	31	07	67	51	08	62	8	5	3	6	6	3	12
Fr.		-	87	95	87	93	97	99	98	83		126		180	321	370
Shri	US\$	98	1.0	3.4	6.6	8.4	0.4	7.6	0.6	9.2	883	1.8	174	3.2	0.9	9.7
mp	M illio n	5	3	4	4	1	3	4	2	8	.03	1	1.2	6	4	6
		21	17	19	13	15	18	27	22	23						
	Quantit	29	49	63	80	96	23	07	02	85	260	312	347	343	324	309
	y in ton	03	76	22	23	89	44	51	00	44	979	358	118	876	359	434
		87	71	84	62	75		14	13	17	203	262	328	329	429	
	Value in	4.6	3.1	1.6	0.7	9.2	99	52.	03.	22.	2.3	3.8	4.1	6.8	4.8	377
	Crore	8	1	5	3	7	8.7	88	41	34	3	9	5	6	1	8.5
Fr.F		19	15	17	13	16	22	32	32	37						
inFi	US\$	2.2	0.0	4.6	5.8	8.6	5.9	1.9	6.2	5.2	430	583	683	617	708	619
sh	M illio n	5	4	3	2	9	4	5	9	4	.94	.48	.5	.59	.63	.66
		33	30	41	39	44	49	55	45	50						
	Quantit	67	56	38	61	23	65	70	95	75	635	591	546	632	685	823
	y in ton	7	8	1	0	9	1	1	5	0	04	59	71	96	77	53
	37.1	28	28	41	43	47	54	79	74	76	0.00	110	134	135	138	183
	Value in	8.9	0.0	7.0 9	5.1	4.0	9.1	7.3	4.1	1.0	923	4.5	6.7	4.2	6.9	3.2
E. C	Crore	9	7	9	7	1	5	7 17	3 18	5	.83	7	2	8	8	1
Fr.C uttle	US\$	63.	58.	86.	94.	4.8	12 4.4	5.7	18 5.6	8.2	195	244	282	251	228	300
fish	M illio n	52	93	30. 37	94. 91	4.0 9	4.4 8	5.7	5.0 6	0.2 7	.69	.62	.72	.54	.13	.69
11511	IVI IIIIO II	37	39	37	37	48	52	47	34	57	.09	.02	.12	.54	.15	.09
	Quantit	62	79	83	83	12	35	25	17	$12^{1}$	614	875	773	753	874	695
	y in ton	8	0	8	2	4	2	2	2	5	45	79	73	87	37	69
	y in ton	32	32	38	37	47	57	56	40	63	15	101	122	137	173	127
	Value in	4.4	9.6	4.3	2.9	7.2	5.5	8.3	8.4	2.3	622	0.5	8.1	8.0	1.9	5.2
	Crore	3	7	7	2	6	2	2	2	5	.63	7	9	8	7	5
Fr.		-				10	13	12	10	14			-	-		-
Squi	US\$	71.	69.	79.		6.6	0.4	6.2	1.2	2.8	132	223	262	256	284	209
d	M illio n	31	36	83	81	3	9	5	9	7	.24	.67	.72	.9	.6	.84
					12		14	24	22	31						
	Quantit	75	83	81	57	96	16	29	41	68	470	790	537	729	679	705
	y in ton	32	07	78	4	92	7	3	4	8	53	59	21	53	01	44
					14	12	13	18	25	42						101
Drie	Value in	70.	67.	84.	5.6	1.0	2.5	3.1	8.8	0.7	981	954	562	819		0.1
d	Crore	22	96	23	8	1	6	6	8	5	.11	.94	.65	.9	998	6
item	US\$	15.	14.	17.	31.	27.	30.	40.	64.	92.	208	212	117	152	167	165
S	M illio n	43	3	46	69	09	03	75	72	51	.72	.22	.66	.81	.89	.52

#### AN ECONOMIC STUDY OF FISH PROCESSING WORKERS IN THOOTHUKUDIDISTRICT

	Quantit	18	16	21	23	22	25	24	24	34	549	520	419	437	508	548
	y in ton	44	28	15	41	62	68	78	98	34	2	8	9	3	0	8
	Value in	39.	40.	53.	51.	50.	61.	64.	69.		139	142	154	197	281	301
Live	Crore	88	57	66	1	75	71	06	07	99	.14	.15	.61	.89	.85	.51
item	US\$	8.7	8.5	11.	11.	11.	13.	14.	17.	21.	29.	31.	32.	36.	46.	49.
s	Million	7	4	12	15	31	99	22	21	82	52	46	46	82	7	62
										21						
	Quantit	38	32	33	37	39	50	72	65	45	288	211	212	268	197	314
	y in ton	20	84	50	79	88	60	00	41	3	17	18	78	68	55	04
									11	21						
Chil	Value in	71.	63.	59.	64.	68.	81.	11	8.1	7.3	264	257	357	537	527	635
led	Crore	63	66	14	03	14	56	7.3	1	4	.49	.54	.42	.11	.84	.93
item	US\$	15.	13.	12.		15.	18.	26.	29.	48.	55.	56.	74.	99.	88.	104
s	Million	74	39	27	14	16	4	63	62	39	87	93	03	87	48	.71
		31	38	43	48	55	60	67	73	73						
	Quantit	19	20	29	09	25	84	57	69	80	805	971	114	112	109	124
	y in ton	5	9	9	0	0	1	1	8	1	92	45	538	841	212	947
		29	32	43	38	47	57	67	77	97		108	148	156		213
	Value in	2.5	2.0	2.8	9.2	5.5	4.5	4.3	7.2	5.3	902	9.6	8.2	5.7	162	8.9
	Crore	4	9	8	3	8	8	5	9	3	.64	7	4	8	3.5	4
						10	13	14	19	22						
Oth	US\$	64.	67.	89.	85.	6.2	0.4	9.7	3.6	0.2	196	242	314	292	272	351
ers	Million	3	77	79	54	9	6	2	8	4	.84	.72	.16	.86	.34	.31
		44	42	46	41	46	51	61	54	60						105
	Quantit	04	44	72	20	13	21	26	17	28	678	813	862	928	983	124
	y in ton	73	70	97	17	29	64	41	01	35	436	091	021	215	756	3
		64	59	68	60	66	72	83	76	86	100	129	165	188	302	334
	Value in	43.	57.	81.	91.	46.	45.	63.	20.	07.	48.	01.	97.	56.	13.	41.
	Crore	89	05	31	95	69	3	53	92	94	53	47	23	26	26	61
		14	12	14	13	14	16	18	18	19	213	285	350	351		551
Tota	US\$	16.	53.	24.	30.	78.	44.	52.	99.	08.	2.8	6.9	8.4	1.6	500	1.1
1	Million	32	35	9	76	48	21	93	09	63	4	2	5	7	7.7	2
•																• • •

#### Source: www.mpeda.gov.in, 2014

India plays a major role in the global seafood export among the Asian countries. The marine products exports from India reached 8 lakh tonnes worth 2.8 billion US \$ in 2014-15 and registered an impressive double digit growth rate since 2010-11. India exports frozen shrimp, squids and finfish in dried, live and chilled forms to different destinations. With the current demand pattern of major seafood markets and with modern machinery for freezing and processing, several exporting firms have started development and exports of processed value added products. Among the different items exported, frozen shrimp and frozen fin fish accounted for about 75 percent of the total volume of sea food exports from India. Even though frozen shrimp contributed only 19.24 percent of the total volume of seafood exports, its share in the total value was 41.62 percent in 2014-15. Frozen fish occupies prime position in terms of quantity, however its share in the total value is only 20.38 percent showing low unit value realization (Rs. 84.16 per kg) (MPEDA, 2014).

State		Pre-Process	ing	
		No.	Capacity	
1.	Kerala	288	1987.02	
2.	Karnataka	22	286.68	
3.	Goa	13	124.33	
4.	Maharashtra	47	1262.24	
5.	Gujarat	94	1108.84	
6.	Tamil Nadu	41	367.03	
7.	Andhra Pradesh	55	6046.48	
8.	Odhisha	22	189.87	
9.	West Bengal	38	283.95	
10.	Total	620	11656.44	

#### **State wise Pre-Processing centres**

Source: www.mpeda.gov.in, 2014

Currently, there are some 399 processing plants having a daily freezing capacity of 7,283.36 tonnes of fish products. Besides, there are 471 cold storages in the country, the total estimated capacity of which is 89,274 tonnes. The number of fishing vessels which mainly contribute to the export market is calculated as 12,660. From a subsistence-based livelihood activity pursued by a group of largely poor and rural artisans, marine fisheries sector has acquired the hues of an urban-based, capital-intensive commercial sector, earning sizeable sums of foreign exchange for the country.

#### **OBJECTIVES OF THE PRESENT STUDY**

#### The objectives of the present study are:

1. To collect data on the socio-economic structure of fish processing workers in Thoothukudi District.

2.To identify the motivational factors to join fish processing industries

3.To study quality of work lifeof fish processing workers in the study area.

#### **METHODOLOGY**

The present study is based on both primary and secondary data covered only six months period (2014). Primary data has been collected through interview schedule. The proportionate random sampling technique has been adopted to select 75 fish processing workers from 15 fish processing Industries in Thoothukudi district. Secondary data and information are collected from MSME- (Micro Small & Medium Enterprises) Development Institute, Thoothukudi, District Industries Centre Thoothukudi, books, journals and websites. A separate interview schedule was designed, pilot tested and used for data collection. This is purely a descriptive study. Percentage, averages, ranking method, standard deviation and multiple regressionswere used for the analysis.

Variable	Categories	Percentage			
Gender	Male	54			
	Female	46			
Age (years)	Young (20-30)	34			
	Middle (30-45)	34			
	Old (45-60)	28			
	Above-60	4			
Education	Illiterate	8			
	Primary	26			
	Secondary	18			
	Hr. Sec	36			
<b>D</b> 11 C	Graduate	12			
Family Size	Less than 3	10			
	Low (3-6)	20			
	Medium (6-9)	10			
	Large (9-12) More than 12	20			
Daliaian		40 22			
Religion	Christians Hindus	78			
Community	Most Backward	16			
Community	SC/ST	10			
	Backward Classes	72			
Family Type	Nuclear Family	90			
ranniy rypc	Joint Family	10			
Nature of work	Skilled	75			
	Unskilled	25			
Type of work	Cleaning	32			
	Peeling and cutting	12			
	Grading	10			
		20			
	Setting and canning	4			
	Freezing Packing	8			
		14			
	Loading and Transporting				
Monthly Income	Below 3000	31			
(Rs.)	3000-6000	17			
	6000-9000 9000-12000	14			
	Above 12000	26			
Liverto alc		12			
Livestock	Goat	30			
	sheep Cattle	12 20			
	buffaloes	38			
	ounaloes	30			

# Socio-personal characteristics of respondents (n=75)

Source: Primary Data

# **RESULTS AND DISCUSSION**

The socio-economic characteristics of in the fish processing respondents were analyzed and

presented in the above table. It is evident from the results that the percentage of male is more i.e., 54% in the sample families and the percentage of middle age respondents is more i.e., 34% in the fish processing units. As per the survey middle age group's involvements is higher than that of old and young aged groups and mean size of the family worked out to be 32.31 years and standard deviation was 27.032 in the study area.

Further, results revealed that 26% of the respondents had primary education, about 18% had high school education, about 36% possessed higher secondary level education and only about 12% had pursued degrees. Further, 8% remained illiterate.

The study showed that majority of them, about 78%, was Hindus and about 22% were Christians. Generally, the study area is dominated by Hindus.Results on family size categories indicate that majority of the respondents i.e., 40 percentage of families are having more than 12 size ranging from members and mean size of the family worked out to be 9.32 years and standard deviation was 5.621.

Results on family type revealed that 90 percent of the respondents belonging to the nuclear family. This clearly indicates the declining of the joint family system. Results onnature of workrevealed that 75 percent of workers are skilled workers and the remaining 25 percent of workers are too unskilled workers in the fish processing units.

It has been observed that the dominant fish processing workers relate to out of 75 workers majority (32 percent) of them belong to cleaning. It is followed by setting and canning (20 percent), grading (10 percent), peeling and cutting (12 percent), freezing (4 percent), Packing (8 percent), and loading and transporting (14 percent).

The study revealed that 31% of the respondent'sincome up to Rs.3000, 17% of them is earning Rs.3000-6000 monthly, 40% are earning Rs.6000-12000 monthly, and the others 12% are earning above Rs.12000 monthly.

Further, results revealed that cattle, goat, sheep and buffaloes are the major livestock in the area. About 30% of the sample farmers had goat, about 38% of them maintained buffaloes and about 20% of them had cattle. Poultry is widely prevalent in the study area.

Motivational factors	Average Score	Rank
For better standard of living	53.73	II
Economic necessity	56.29	Ι
Willingness	31.59	VI
Easily available	34.86	V
Uneducated	47.48	III
For dependents welfare	41.67	IV

#### Motivational factors to join fish processing industries

Source: Computed from Primary Data

It is clearly evident from the table that the prioritized motivational factors for choosing the occupation by the sample respondents in fish processing units, it is inferred that by using Garrett's score.

The first rank for choosing the occupation was assigned to economic necessity followed by

better standard of living. Third and fourth ranks were given to uneducatedand for dependents welfare respectively. Easily available and willingness were ranked fifth and sixth respectively.

Variables	Multiple R	R <sup>2</sup>	F	Р	Beta	
Job satisfaction	0.9352	0.93	327.38	0.001	0.97	
Quality of family life	0.9627	0.94	209.52	0.001	0.36	
Income	0.9498	0.98	368.24	0.001	0.04	

Step wise multiple regression dependent variable quality of work life

Source: Computed from Primary Data

# It is revealed from table that three of the variables were entered into the equation and the order of inclusion was as follows: Job satisfaction, quality of family life and income. As each of the additional was entered, the multiple R and R2 increased. This indicates that job satisfaction quality of family life and income were the best set of predictors of quality of work life having a combined contribution of about 98 per cent. Allowing one of the independent variables to operate, while controlling the other variables in the equation, revealed that it was job satisfaction which had the highest contribution to the quality of work followed by the quality of family life and income respectively.

## CONCLUSION

Location-specific and need based training programmes for fish processing workers should be organised to enhance the awareness and technical know-how enabling them to start self-generating gainful employment ventures in aquaculture and post-harvest sector of fisheries. Involvement of fish processing workers all types of aquaculture practices should be encouraged. There is enormous scope to adopt and expand ornamental fish culture to earn a very high income both in rural and urban centres. Fish processing workerscould take up pearl culture as a productive income-earning venture on account of the vast unutilised potential. Appropriate training programmes, including the possible linkages of necessary credit facilities in liaison with scientific institutes and formal financial institutions, respectively should be imparted to the primary stakeholders. It is better to promote "men and women partnership firms" instead of exclusively women oriented enterprises. It is seen that husband-wife enterprises with one or two helpers in fish processing marketing and other fishery related activity have better prospects.

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