

# **Production and Formulation of Fish and Shrimp (Prawn) Feed.**

## **Commercial Aquaculture Feed Manufacturing Business**



# Introduction

**Food is the main element for living of all animal. Like other animals fish also needs sufficient and nutritious fish feed for proper growth and survival. Maximum fish production is not possible without nutritious feed. The ingredients of well-balanced nutritious feed for fish are protein, carbohydrate, fat, vitamins, minerals and water. The feed like moss or aquatic insects which produce naturally in the pond is not sufficient for fish.**

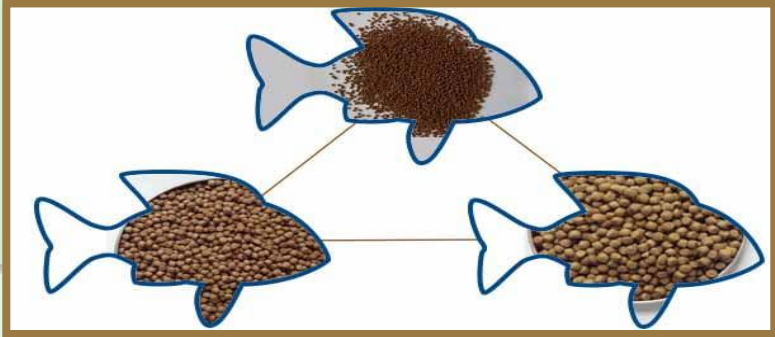


**Aquafeed, also known as the fish feed, is a commercially produced food item for various aquatic species such as fish, crustaceans, and mollusks. Aquafeed is extensively used in the aquaculture sector. Fish cultivated on farms and feeding on pests found on crops can also be categorized under the aquafeed market segment.**

**Aqua feed is food formulated specifically for fishes, which is commercially manufactured via numerous industrial procedures. Aqua feed is primarily available as pellets, which contain important ingredients that provide nutrition to fish. As per the fish species and size to be fed, these pellets are available in many sizes. Further, the properties of pellets can be easily changed so that they sink to the bottom of fish tanks or float on the surface of the water. The nutrient contents of the feed can be controlled and this has benefitted the global aqua feed market in the recent past.**

**Also, there has been a growth in the farming aquatic species such as crustaceans, mollusks, and fish.**

**With the globally increasing demand for fish and fish-based products, the compound feed demand in the aquatic animal food industry is also expected to increase. The growth is particularly high in emerging countries, such as China, India, and Brazil, owing to the increasing income levels due to expanding the middle class and increasing demand for seafood in these countries. The Asia-Pacific market though, accounts for a significant share in the overall market, is relatively unexplored, owing to the low level of organizing in the industry.**



**Andhra Pradesh accounts for 22% of India's total commercial aquafeed consumption followed by West Bengal; however, the penetration of commercial aquafeed is still at 10% for finfish category and a little higher for shellfish category in Andhra Pradesh. This makes the state an attractive investment destination for aquafeed manufacturers.**

**From a land of traditional aquafeeding comprising rice/wheat bran, groundnut cake, and other agro products, India is emerging as a significant producer of commercial aquafeed. The thriving Indian aquaculture industry is the biggest advantage for aquafeed manufacturers. However, as majority of farmers feeding the aquatic species with traditional feeds owing to easy availability and lower prices, the transition towards commercial aquafeed will definitely take time.**

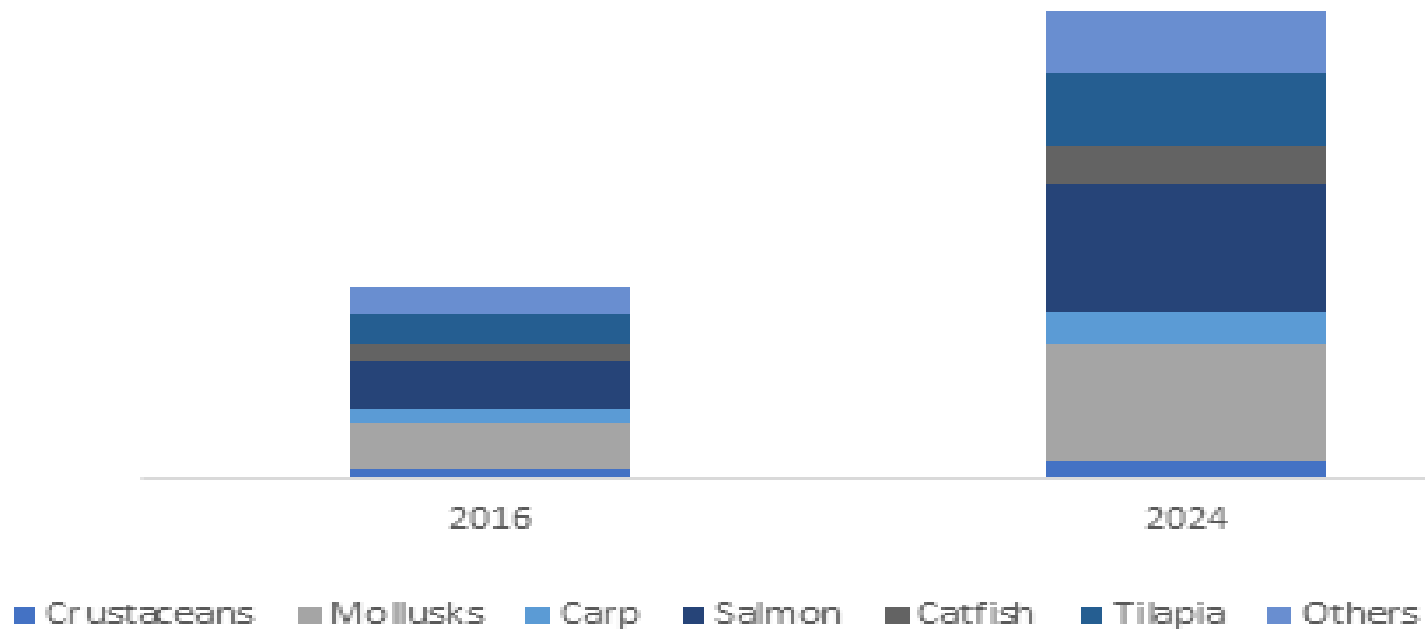
**With the growing awareness among farmers regarding benefits of feeding the aquacultured species with commercial aquafeed, the popularity of commercial aquafeed is trickling down to various parts of the country. Further, the growing demand for fish in both the national and international markets is propelling fish cultivators in India to inculcate commercial feeding practices, so that the end product is healthy and nutritional.**



**The global aqua feed market is segmented on the basis of geography and end-users. By end-users, the global aqua feed market is classified into crustaceans, carp, catfish, salmon, mollusks, tilapia, and others such as milkfish, eels, and trout. In 2012, by end-user, the highest demand for aqua feed was from the carps segment, accounting for 25% of the global aqua feed market. Carps have the highest demand in the retail industry whereas crustaceans have the highest demand in the food and the pharmaceutical industries. The rising demand for aqua feed from end-user segments such as mollusks and salmons is expected to propel the global aqua feed market in the near future.**



## Europe Aquafeed Market Size, By End-Use, 2016 & 2024, (USD Million)





**In terms of end-user, the global aqua feed market has classified into carp, crustaceans, salmon, mollusks, catfish, tilapia, and others. Carp stood as the leading end-use segment and accounting for 25% of the global aqua feed market. The carp and crustaceans segments are expected to display the fastest growth as they can withstand harsh environmental conditions. Mollusks segment accounted for the second largest share of the overall market and is expected to display above average growth rate in the near future. This is mainly due to the increasing consumer awareness about the health benefits of mollusks.**



**Shrimp feed is produced in order to meet the nutritional requirements of farmed shrimps. It helps in maintaining the required levels of essential amino acids, vitamins, minerals, fatty acids and other important nutrients. Some of the common ingredients used in shrimp feed include fish and squid meal, lecithin, fish oil, cereal flour and other essential and propriety additives. The use of good quality feed helps in improving the shrimp production, profits, and minimizing the environmental pollution generated from shrimp farming.**



**Shrimp feeds have crude protein levels ranging from 32-38% and fat levels of 5-6%. Shrimp Feed production was approximately 600,000 tons, and fish feed production was 650,000 tons. If all the smaller feed mills were included in this survey, the total feed production in 2014 would have been more than 1.5 million tons. The Indian shrimp feed market reached a production volume of 872,700 Tons in 2017.**

**One of the primary factors catalyzing the growth of the Indian shrimp feed market is the massive marine wealth in India that sustains the development of the aquaculture industry.**



**Prawn Feed**

**Although shrimp farming is fully dependent on formulated feeds, freshwater finfish farming is still in the process of transitioning to use of pelleted feeds, from use of raw agricultural by-products, farm-made feeds and organic fertilizers. High value coastal carnivorous fin fish continues to be produced via a combination of trash fish and formulated feeds, both imported and produced locally.**

**Recently, Indian, aqua feed sector is exploring the opportunity to utilize abundantly available spent residues, dried distillery grains with soluble as a potential ingredient in fish and shrimp feeds.**



# Project at a Glance

PROJECT AT A GLANCE				( in lacs)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	35.00	35.00	Capital	0.00	97.51	97.51
Buildings	0.00	130.50	130.50	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	84.40	84.40	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	6.00	6.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	26.75	26.75	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	292.53	292.53
Preliminary& Pre-operative Exp	0.00	2.50	2.50	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	7.00	7.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	82.89	82.89				
TOTAL	0.00	390.04	390.04	TOTAL	0.00	390.04	390.04

# Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	`	`	`	`	`	%	`	%	`		%
1-2	5.66	8.97	15.66	24.00	0.00	100.00	5.66	0.00	5.66	1.00	0.00
2-3	8.56	11.47	24.22	18.00	0.00	100.00	8.56	0.00	8.56	1.00	0.00
3-4	11.51	14.07	35.72	12.00	0.00	100.00	11.51	0.00	11.51	1.00	0.00
4-5	14.35	16.60	50.07	6.00	0.00	100.00	14.35	0.00	14.35	1.00	0.00
5-6	17.05	19.05	67.12	0.00	0.00	100.00	17.05	0.00	17.05	1.00	0.00

# Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.32	1.32		1.53	1.53	5.44		4.58%	1.92%	1.29%	403.78	9.44%	4.41	1.08
2-3	1.64	1.47		0.74	0.74	3.65		4.98%	2.58%	1.67%	470.93	9.44%	4.59	1.14
3-4	2.02	1.64	2.02	0.34	0.34	2.59		5.26%	3.08%	1.97%	538.20	9.44%	4.60	1.22
4-5	2.48	1.82		0.12	0.12	1.93		5.45%	3.44%	2.18%	605.47	9.44%	4.52	1.31
5-6	3.02	2.02		0.00	0.00	1.50		5.57%	3.69%	2.33%	672.74	9.44%	4.38	1.48

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	58.04%
Total BEP (% of Installed Capacity)	60.94%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	28.64%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	39.259



# Major Queries/Questions Answered in the Report?

- 1. What is Fish and Prawn Feed Manufacturing industry ?**
- 2. How has the Fish and Prawn Feed Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Fish and Prawn Feed Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Fish and Prawn Feed Manufacturing plant ?**

- 5. What is the structure of the Fish and Prawn Feed Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Fish and Prawn Feed Manufacturing Business?**
- 7. What are the operating costs for setting up Fish and Prawn Feed Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Fish and Prawn Feed Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Fish and Prawn Feed Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Fish and Prawn Feed Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Fish and Prawn Feed Manufacturing Business?**
- 12. What is the Manufacturing Process of Fish and Prawn Feed?**

- 13. What is the total size of land required for setting up Fish and Prawn Feed Manufacturing plant ?**
- 14. What will be the income and expenditures for Fish and Prawn Feed Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Fish and Prawn Feed Manufacturing plant ?**
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# Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

# Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

## ***Scope of the Report***

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Fish and Prawn Feed.” provides an insight into Fish and Prawn Feed market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Fish and Prawn Feed project. The report assesses the market sizing and growth of the Indian Fish and Prawn Feed Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Fish and Prawn Feed sector in India along with its business prospects. Through this report we have identified Fish and Prawn Feed project as a lucrative investment avenue.**

Commercial Fish Feed, Fish Feed Formulation and Production, Fish Feed Production, Fish Feed Production Plant, Fish Feeds and Feeding, Fish Feed Production Pdf, Fish Feed Production Process, Fish Feed Pellet Production, Ingredients of Fish Feed, Fish Feed Industry, Prefeasibility of Production of Fish Feed at Small Scale, Fish Feed Pellets Production Plant, Fish Feed in Aquaculture, Production of Fish and Shrimp Feed, Fish Feed Preparation, Fish Feed, Feed Formulation, Fish & Aquatics Feed Products, Aquaculture Feed, Fish Feeds Processing and Technology, Commercial Aquaculture Feed Production, Fish Feed Processing, Feed Manufacturing, Shrimp Feed Formulation and Manufacturing Process, Manufacturing Process for Shrimp Feed, Shrimp Feed Pellets Making, Shrimp Feed Production Process, Prawn Feed Manufacturing, Feed Formulation, Prawn Feed, Prawn Feed Preparation, Shrimp Feed Industry, Shrimp Feed, Project Report on Fish Feed Processing Industry, Detailed Project Report on Fish Feed Processing, Project Report on Prawn Feed Manufacturing, Pre-Investment Feasibility Study on Fish Feed Processing, Techno-Economic feasibility study on Prawn Feed Manufacturing, Feasibility report on Fish Feed Formulation and Production, Free Project Profile on Prawn Feed Manufacturing, Project profile on Fish Feed Processing, Download free project profile on Prawn Feed Manufacturing

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**NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.**

**Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.**



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**The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,**

**Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.**

**We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)**



# **Contact us**

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



# Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

*We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.*



*We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.*

# What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

## How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

# Our Approach

**Requirement collection**

**Thorough analysis of the project**

**Economic feasibility study of the Project**

**Market potential survey/research**

**Report Compilation**

# Contact us

## NIIR PROJECT CONSULTANCY SERVICES

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