

# PLANNING, DESIGNING AND MANAGING A MULTI-PURPOSE FISHERY HARBOUR

RAMYA.K<sup>1</sup>, RANJITHA.M<sup>2</sup>, SATHIYA.R<sup>3</sup>, SWEETY KANIKKALA<sup>4</sup>, G.ISVARYA<sup>5</sup>

BE-final year and Assistant Professor<sup>6</sup>

Department of CIVIL,

Bharathiyar Institute Of Engineering for women ,

Deviyakurichi(po), Attur(tk),

Salem(dt), Tamilnadu, India.

ramya.k1248@gmail.com<sup>1</sup>, ranjitharanjitha321@gmail.com<sup>2</sup>, sathiyabe7@gmail.com<sup>3</sup>,

sweetykanikkai@gmail.com<sup>4</sup>, gmail.com<sup>5</sup>

## ABSTRACT

In this project work to identify a suitable site for multi-purpose fishery harbour, planned, designed. The role of the fishing port may be considered as the interface between the netting of fish and its consumption. In many cases, the fishing harbour is also the focal point of pollution, both of the surrounding environment and the fishery products it produces. "Multipurpose fishery harbour should be at least of 5m deep and they should facilitate large-scale vessels. Investment made on these fishery harbors should be a benefit to the country". The construction of the fishery harbor is useful for economic, entrepreneurship and marketing including imports and exports facilities. There are various environmental forces like tides, currents, waves and sediment transports and pollutant transport associated with the coastal processes.

## INTRODUCTION

Fishing harbour is the place where fishing boats are tied up and it can be used for multi-purposes. Development of fishery harbor and fish landing center all along the Indian coast is crucial in view of the unexploited and under exploited marine fishery resources. This complex is

constructed in Royapuram near Chennai. The model of our project was constructed in Nagarcoil near Kanniyakumari and it was constructed by government of Tamil Nadu fisheries department. Development of fishery harbor and fish landing center all along the Indian coast is crucial in view of the unexploited and under exploited marine fisheries resources. The sad truth is that the capacity of the existing harbor facilities in the country can meet only 1/4<sup>th</sup> of the requirements of the existing fleet it is also an undisputed fact that some of the existing fishery harbour are either defunct or plagued down with problems such as siltation in harbor, lack of harbor management, harbour maintenance etc. This called for immediate action for not only to create harbor facilities at the required place, keeping in the view ever increasing fishing fleet size also to ensure that the available fishery harbor are managed and maintenance efficiency. A fishing harbor is a port for landing and distributing fish. These are designated to provide better landing and berthing facilities to fishing craft and provide basic facilities for deep sea fishing. India's overall fish production has shown a steady rise in recent years the sector suffers from low-scale, stagnating yields of inland and

freshwater aqua culture and poor post-harvest fish handling infrastructure. His highlights an urgent need to address the lack of infrastructure and skilled man power in the fisheries sector as well as non-compliance of food and agriculture organization, principles of fish management. New fisheries harbor and fish landing centre will help in increasing the quality of fish as if facilities better hygienic conditions by increasing turnover of fish in the country, increasing, number of boats and mechanized boats. Fishery sector has been playing a very important role in improving the socioeconomical status of the fishermen. Fishing is an important occupation next to agricultural and is regarded as a powerful income and employment generation. This is emerging as a visible sector contributing towards employment generation in fishing and allied activities.

## OBJECTIVES

The main objectives of this project work is to identify a sustainable site for multi – complex fishery harbour, plan and design such a complex and propose a management model to run that complex in an efficient and profitable manner. The purpose is to select the suitable site for multi-purpose fishery harbour and at the same time to improve the economic condition and increasing fisherman community. The various aspect under planning and designing. To draw the plan by using auto cad and analyzing by using staad pro. The outcome of this project work is a site selection, preparation of layout plan for sea and land based Facilities. What is afisheries harbor?

## DEVELOPMENT OF MARINE FISHERIES

- Safety of Fishermen at Sea
- Fishermen Development Rebate on HSD Oil
- Introduction of Intermediate Craft of Improved Design including proto-type study of new intermediate vessel design.
- Establishment and operation of Vessel Monitoring System

## Eastern and Western break water

A breakwater is a wooden or stone wall that extends from the shore into the sea and is built in order to protect a harbour or beach from the force of the waves. Waves crashing against a breakwater to a seaport. The definition of a breakwater is a barrier built in a body of water to break the force of waves and protect surrounding land.



## LANDSIDE FACILITIES

1. Parking area
2. Security
3. Canteen
4. Workshop
5. Auction
6. Rest shed

7. Net mending
8. Administration office
9. Generator room

## SOIL TESTS

Various tests on soil are conducted to decide the quality of soil for building construction. Some tests are conducted in laboratory and some are in the field. Here we will discuss about the importance of various soil tests for building construction.

The types of soil test are

1. Specific Gravity Test
2. Proctor Compaction Test
3. Liquid Limit Test
4. Sand Replacement Test

### 1. Specific Gravity Test

$$G = \frac{W_2 - W_1}{[W_4 - W_1] - [W_3 - W_2]}$$



### 2. Proctor Compaction Test



### 3. Liquid Limit Test



#### 4.Sand Replacement Test



#### REFERENCE

Amutha.D., “Socio- economic conditions of fishermen in Tuticorin.”, 1998.

Ganesan, “Marketing of marine fish – An empirical study in coastal villages in Kanyakumari” Madurai, 1987.

#### CONCLUSION

The employment and monthly income of fishermen is very poor before harbour, but after harbor the employment and monthly income of fishermen has increased.

The present study indicates that there is sample scope to increase the income of fishermen and intern the income of fisher folk provided they adopt improved fishing.

The social and educational status of the fisher folk could also be improved by educating them in various aspects.

The outcome of this project work is a site selection, preparation of layout plan for sea and land based facilities including fish court processing .