

# **FISHING**

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## **Outline:**

- **Types Of Profession**
- **Fishing As A System**
- **Subsistence And Commercial Fishing**
- **Marine And Inland Fishing**
- **Solution**
- **Development**
- **Advantages**
- **Disadvantages**

# **TYPES OF PROFESSION**

*1) Primary profession because directly related to nature.*

*2) Other primary profession*

- a) Forestry*
- b) Farming*
- c) Mining*
- d) Quarrying*

# FISHING AS A SYSTEM

<b>Inputs</b>	<b>Process</b>	<b>Output</b>
<ul style="list-style-type: none"><li>1) <i>Water Bodies</i></li><li>2) <i>Labor</i></li><li>3) <i>Capital</i></li><li>4) <i>Handmade nets</i></li><li>5) <i>Wooden Boats</i></li><li>6) <i>Sailing</i></li><li>7) <i>Ice baskets</i></li><li>8) <i>Gill netters</i></li><li>9) <i>Chillers</i></li><li>10) <i>Mechanical boats</i></li><li>11) <i>Cans</i></li><li>12) <i>Salts</i></li><li>13) <i>Vaccine</i></li></ul>	<ul style="list-style-type: none"><li>1) <i>Catching</i></li><li>2) <i>Feeding</i></li><li>3) <i>Vaccination</i></li><li>4) <i>Refrigerating</i></li><li>5) <i>Gutting</i></li><li>6) <i>Canning</i></li><li>7) <i>Breeding</i></li><li>8) <i>Salting</i></li></ul>	<ul style="list-style-type: none"><li>➤ <b>Fish And Fish Products</b></li></ul>

# **SUBSISTENCE V.S COMMERCIAL FISHING**

## **Subsistence:**

- *For home use/family use*
- *Less amount of capital is invested*
- *Costal only (If Marine)*
- *Less catch*
- *Traditional methods e.g. sailing & wooden boats, ice baskets, family labor, inherited knowledge, handmade nets.*

## **Commercial:**

- *For sale/profit*
- *Height amount of capital is invested*
- *Can go to 50-60 Km off shore*
- *High catch or higher amount of output*
- *Modern methods e.g. engines, gill netters , skilled labor, chillers & nylon nets are used.*

# MARINE VS INLAND FISHING

## Marine:

- *Practiced in sea waters e.g. Makran & Sindh Coast.*
- *Both for commercial and subsistence us.*



## Can be For Local Market

## International Market (Exported)

- *Modern as well as Traditional Methods are used.*
- *Relatively less labour as compared to Inland Fishing.*
- *But more catch as compared to Inland Fishing.*
- *Sharks, Drum, Cat Fish, Ray, Corkers, Hearings and Skates are caught.*

## Inland Fishing:

- *Practiced in river, Lakes, Ponds, Reservoirs of Dams etc. (Includes Fish Farms As well) e.g. Reservoirs of Mangla & Tarbela Dams, Haleji Lake etc.*
- *Commercial (local market only) & Subsistence.*
- *Less Catch due to less quantity and Traditional Methods.*
- *More Labor because .....*
  1. *.....More People Live Near River.*
  2. *.....For Catching.*
  3. *.....People Need On Hatcheries.*
  4. *.....For Vaccination on Inland Farms.*
  5. *.....For Feeding On Inland Farms.*
  6. *.....For Vaccination.*
  7. *.....For Transportation.*
- *Trout, Rahu, Thalla, Palla, Grass and Silver are caught.*

# **SINDH COAST AND MAKHRAN COAST**

## **Sindh Coast:**

- *Karachi Port.*
- *Less Coastal Area.*
- *However More Catch Due To More Creeks/Natural Harbor.*
- *More Use of Modern Methods.*
- *.....Developed Infrastructure e.g. Road, Railway For Transportation.*
- *.....Wide Shallow Sea (More Continental Shelf)*
- *More Availability of Nutrients For Fish In The Indus Delta.*
- *Better Processing & Refrigerating Facilities Due To Electricity.*

## **Baluchistan coast:**

- *Jiwani, Ormara, Pasni, Gawadar.*
- *More area i.e. 70%.*
- *However less output due to....*

↳ *Poor Infrastructure .....*

- 1. Lack Of roads fro transportation.*
- 2. Lack of education for skills.*
- 3. Lack of fresh water for processing.*
- 4. Lack of electricity for processing.*
- 5. Lack of telecommunication to market.*

- *Old traditional methods.*
- *Less shallow sea/less continental shelf.*

# **INLAND FISH FARMS**

- *These are farms which are kept for commercial use.*

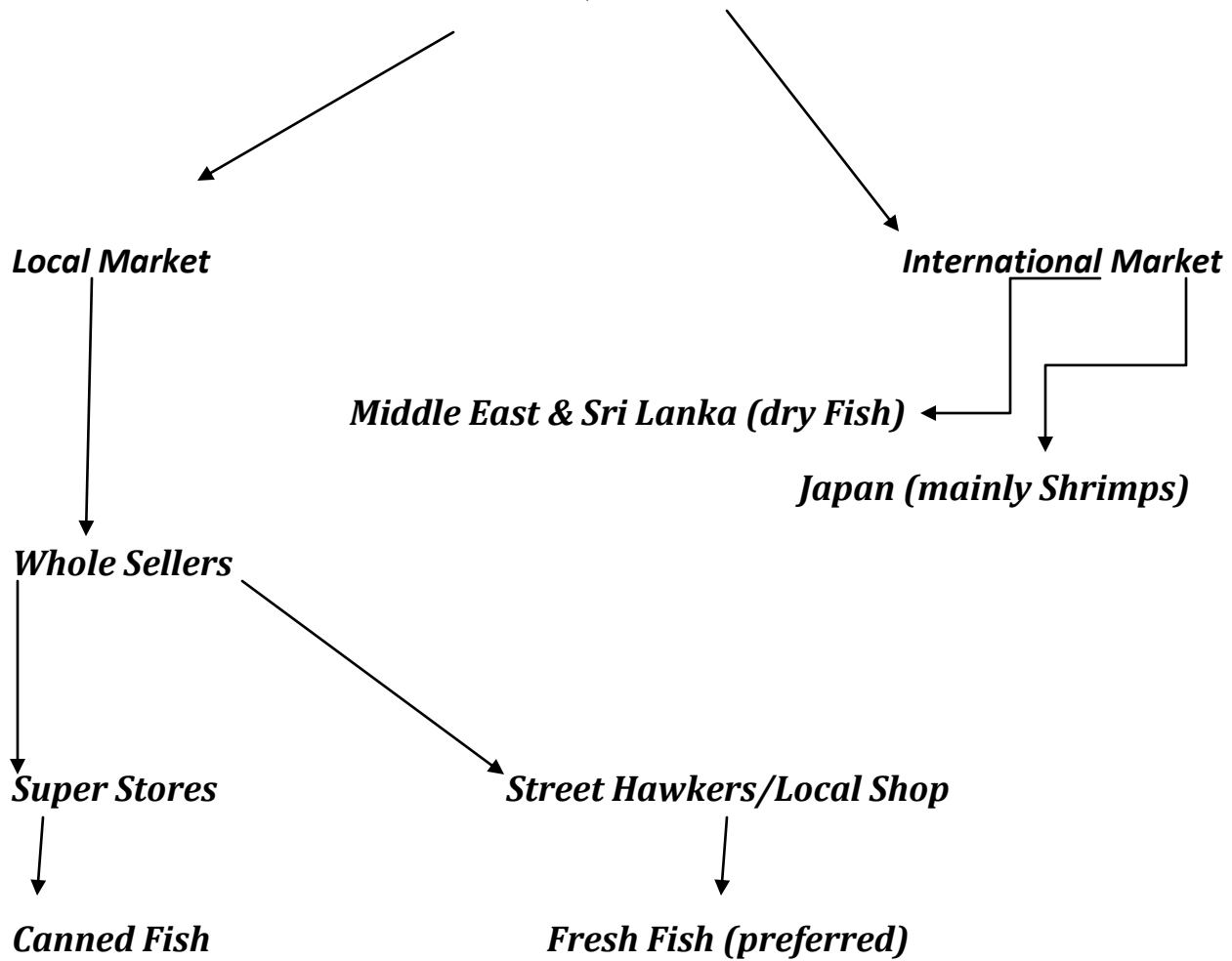
## **Distribution:**

- **Most of them in Punjab.**
  1. **Mostly along rivers/doabs**
- **Many in Sindh.**
  2. **Mainly Along River Indus.**
- **Some In N.W.F.P**
- **None In Baluchistan.**

## **Methods of Inland Fish Farms:**

- *Fish Lay eggs in hatcheries.*
- *Eggs are hatched.*
- *Small fish are shifted to rectangular ponds.*
- *Feeding in ponds.*
- *Vaccination on fish farms.*
- *When fish attain certain age and weight then;*
  1. *.....They are transported to market.*
  2. *.....For Sale and Profit*

# MARKETING



***More Catch But Less Consumption Because.....***

- 1. Expensive so difficult to afford.***
- 2. Not a preferred meat as others Chicken/Mutton is preferred.***
- 3. Not available (fresh) everywhere in Pakistan which is preferred.***
- 4. People are unaware of its benefit due to illiteracy so they don't know that it's a low cholesterol and high protein diet.***



# **PROBLEMS OF FISHING INDUSTRY**

- *Lack of capital so modern methods like gill netters can not be purchased.*
- *Lack of education so fishermen are unaware of modern techniques.*
- *Unhygienic environment of fish market so buyers are reluctant.*
- *Over fishing (during breeding season) which limits the production of fish.*
- *Threat to mangroves due to polluted water which reduces amount fish because.....*
  1. *They are breeding ground of fish.*
  2. *Provide plankton (food) for fish.*
  3. *Protect them from predators.*
- *Water pollution due to oil seepage which kills fish.*
- *Lack of Government attention slow down the development.*
- *Lack of modern machinery so fishermen can't go into deep sea water for more catch.*
- *Lack of Storage Facility so a lot a fish is wasted.*

# **SOLUTION/DEVELOPMENT**

- *Increasing in processing facilities e.g. Canning/gutting etc.*
- *Increase storage facility e.g. refrigerators, ice factories etc.*
- *Modern Methods are being encouraged.*
- *Loans are being provided for purchasing new methods i.e. engine boats & gill netters.*
- *MFD* → *Marine Fisheries department which monitors deep sea vessels.*
  - *Strengthens quality control labs.*
- *Development of Makran coast like Gawadar Port.....*
  1. ....*More Storage Facilities.*
  2. ....*More Ice Factories.*
  3. ....*More Processing Facilities.*
- *Development Fish Harbor at Pasni with the help of ASIAN DEVELOPMENT BANK.*
- *Guidance & Whetever information through media & metrological Department.*
- *Awareness about establishing fish farms through pamphlets by Fisheries Department of different provinces.*

# **IMPORTANCE OF FISHING INDUSTRY**

- *Contributes to GDP/GNP, therefore to national income.*
- *Export e.g. Shrimps to Japan.....*
  1. ....*So a source of earning foreign exchange.*
  2. ....*Which Improves balance of Trade.*
- *Employment for fisherman.*
- *Extra income for agriculture farmers who own fish farms.*
- *Reduces rural to urban migration as most of the inland fishing farms are in Villages.*
- *Development of remote areas e.g. coastal areas of Baluchistan by providing roads/electricity.*

# **ADVANTAGES & DISADVANTAGES OF FISHING INDUSTRY TO PAKISTAN**

## **Advantages:**

- *More food.*
- *Healthier food for people i.e. high protein, low cholesterol.*
- *More employment/more income.*
- *Export e.g. Shrimps to Japan, dried fish to UAE and Sri Lanka which help to earn foreign exchange.*
- *Better communication e.g. better roads & telecommunication in Baluchistan.*
- *Growth of industry e.g. processing & boat building.*
- *Sustainability as fish are “free” will not “run out”.*

## **Disadvantages:**

- *Education (illiteracy) lack of skilled labor.*
- *Technology cost money/import.*
- *Water Pollution Kills, damages fish habitat, Pakistan River’s are polluted so mangroves get polluted.*
- *Restriction Marine fishing banned in June & July so the fishermen are jobless in these days.*
- *Trade----Banned by other countries like France & U.K due to unhygienic environment.....they can be piousness and unsuitable to eat.*

- *Income not large /delayed profit.*
- *Sustainability-----issues of over fishing.*

