How to Start Pig Farming and Pork Processing Business

Piggery Business Plan, Pig Farming Business Plan, Hog Production, Pork and Swine Production

(Feeding Management, Breeding, Housing Management, Sausages, Bacon, Cooked Ham with Packaging)
Introduction

Pig farming is the raising and breeding of pigs. Among the various livestock species, piggery is most potential source for meat production and pigs are more efficient feed converters after the broiler. Pig rearing has traditionally been in the main occupational axis of the socially backward down-trodden class of Indian population since time immemorial.
But at present commercial pig farming has greatly changed social scenario of this business in India. Now everyone is conscious about the economic importance of pig farming. Pig farming for meat production is one of the best and profitable business ideas for people. There are several highly meat producing pig breeds available and Initial requirements of small investment, quick returns and utilization of bristles and manure further increase the importance of this animal.
Almost all of the pig can be used as food. Preparations of pig parts into specialties include: sausage, bacon, gammon, ham, skin into pork scratchings, feet into trotters, head into a meat jelly called head cheese (brawn), and consumption of the liver, chitterlings and blood.

The following factors can influence the type of pig farms in any given region:

- Available food supply suitable for pigs
- The ability to deal with manure or other outputs from the pig operation
- Local beliefs or traditions, including religion
- The breed or type of pig available to the farm
- Local diseases or conditions that affect pig growth or fecundity
- Local requirements, including government zoning and/or land use laws
- Local and global market conditions and demand
- Traditional farming styles and methods
Commercial pig farming in India for meat production is one of the best and profitable business ideas for the Indian people. There are several highly meat producing pig breeds available around the globe. Some of those are very suitable for commercial meat production according to the weather and climate of India. Pig farming will provide employment opportunities to seasonally employed rural farmers and Supplementary income to improve their living standards. The pig farming constitutes the livelihood of rural poor belonging to the lowest socio-economic strata and they have no means to undertake scientific pig farming with improved foundation stock, proper housing, feeding and management.
Reasons Why You Should Invest in Pig Farming

- Pigs have low mortality rate compared to other animals. They are more rugged and easier to raise. They can also survive days without food or water.

- Pigs are also cheaper to raise compared to fishes or poultry because they can eat most foods that humans eat and even if you have to buy feed for them, their feeds are cheaper than those of other animals. If you do not have money for fancy pig feed, you can always make do with stuff you can find around you or food wastes from your kitchen. This is totally impossible with fishes.

www.entrepreneurindia.co
Also, you wouldn’t have to worry about people stealing your pigs because most people would not touch live pigs with a 6-feet pole.

The immune system of pigs is higher than other animals. As long as you give them the needed vaccines regularly, they would not fall sick. The same cannot be said for chickens which could be wiped out in one fell swoop by a disease outbreak.

Pigs also generate more profit and if you ever get tired of pig farming, you could easily dive into real estate, using your pig farm as your first construction site.
According to recent studies of changing scenario of Animal Husbandry and Meat Industry in India, Pig farming with a profit of 60% topped all other types of subsidiary occupations like dairying (10%), poultry (30%) and sheep rearing which is at 22%.

According to an estimate, the pork production was of Rs 1682 crores and the bristles production was of Rs. 115 crores during recent years.

The characteristic features of Pig as a livestock are the highest feed conversion efficiency, utilization of wide variety of feed stuff viz. grains, forages, damaged feeds, vegetables, fruits and garbage etc.
higher proficiency with shorter generation interval, i.e., first breeding as early as 8-9 months of age, farrowing twice in a year and 6-12 piglets in each farrowing. Initial requirements of small investment, quick returns and utilization of bristles and manure further increase the importance of this animal.

Pork production in India is estimated at 464 thousand metric tons in FY 2014-15. From year 2010 to 2015 pork imports increased at a CAGR of 11 percent on steady demand in hotel, restaurant and institutional sector as well in high-end retail segment. In 2015, pork imports increased by 28 percent from the previous year to 527 metric tons.
This handbook is designed for use by everyone engaged in the pork production. The book explains about how to raise and care for pigs, by choosing the right breed, how to house, feed and breed them, butchering process, manufacturing process of various pork products and sample plant layouts & process flow sheets with machinery details. Major contents of the book are behavior of pigs, feeding management, pig breeding, housing management, diseases, pork processing, sausages, bacon, cooked ham, chilling and freezing of meat, meat packaging. It will be a standard reference book for professionals, food technologists, entrepreneurs, and others interested in startup of pig farming and pork production.
Table of Contents

1. Introduction
Advantages of Pig Farming in India
Physical Characteristics of Pigs
SWOT Analysis of Piggery Sector
Pig Breeds
(1) Large White Yorkshire
(2) Jangali Bandel/Wild Boar
(3) Pygmi Bandel
(4) Landrace
(5) Middle White Yorkshire
(6) Hurra
(7) Chwanche
(8) Banmpudke
(9) Hampshire
(10) Duroc
2. Behaviour of Pigs
- Social Behaviour
- Rooting Behaviour
- Maternal Behaviour
- Huddling Behaviour
- Leadership
- Sexual Behaviour

3. Feeding Management
- Nutrition
- Types of Nutrition
- Feeding of Boars
- Feeding of Female
- Feeding of Farrowing Sow and Litter
- Feeding for Piglets
- Feeding of Growing and Finishing Pigs
- Orphan Pigs
Weaners
Baconers
Gilts

4. Pig Breeding
Managing the Sows
Selection of Breeding Gilt
Recognising the Heat
Selecting the Boar
Managing the Boar
Feeding and Housing the Boar
Timing the Service
The Birth and Care of the New-Born Piglets
Preparation Measures
Birth
Care of the New Born Piglets
Problems Related to the Birth
Slow Delivery
Accidental Killing of the Piglets by the Sow
The Sow Becomes ill After Farrowing

5. Housing Management
Selection of Housing Location
Fencing
Construction Plan for a Good Pig House/Shed
Housing and Equipment
  • The Boar and Boar Pen
  • The Sow and Sow Pen
  • The Dry Sow and Dry Sow Housing
  • Farrowing Pens
  • Weaners and Weaner Housing
  • Grower and Finishing Pens
Different Models/Types of Pig House/Sheds
6. Diseases

Internal Parasites
(1) Roundworm
  • Symptoms
  • Prevention
(2) Tapeworm
  • Symptoms
  • Prevention

External Parasites
(1) Mange
  • Symptoms
  • Prevention
  • Treatment
(2) Lice
  • Symptoms
  • Prevention
  • Treatment
(3) Myiasis
  • Symptoms
  • Prevention and Treatment
(4) Anaphrodisias
  • Symptoms
  • Prevention
  • Treatment
(5) Leptospirosis
  • Symptoms
  • Prevention and Treatment
(6) Brucellosis
  • Symptoms
  • Prevention and Treatment
(7) Uterine Prolapsed
  • Symptoms
  • Prevention and Treatment
(8) Mastitis
  • Symptoms
  • Prevention
  • Treatment
(9) Endometritis (Bacteria)
  • Symptoms
  • Prevention and Treatment

Diseases and Disorders of Digestive Tract
(1) Birth Diarrhoea
  • Symptoms
  • Prevention
  • Treatment
(2) Red Diarrhoea or Clostridial Enteritis
  • Symptoms
  • Prevention and Treatment
(3) Fat Diarrhea
- Symptoms
- Prevention and Treatment
(4) Post Diarrhea
- Symptoms
- Prevention and Treatment
(5) Salmonellosis
- Symptoms
- Prevention and Treatment
(6) Swine Dysentery
- Symptoms
- Prevention
- Treatment
(7) Post Weaning Syndrome (Oedema Disease)
- Symptoms
- Prevention and Treatment
Diseases of the Respiratory Tract
(1) Influenza
• Symptoms
• Prevention and Treatment
(2) Pleural Pneumonia
• Symptoms
• Prevention and Treatment
(3) Atrophic Rhinitis (Inflammation of the Nose)
• Symptoms
• Prevention and Treatment
(4) Pasteurellosis
• Symptoms
• Prevention and Treatment
(5) Porcine Respiratory and Reproductive Syndrome (PRRS)
• Symptoms
• Prevention and Treatment
Disease Causing Problems in Walking
(1) Arthritis
  • Symptoms
  • Prevention and Treatment
(2) Streptococcal Infections
  • Symptoms
  • Prevention and Treatment
Nutritional Disorders
(1) Anaemia
  • Symptoms
  • Control and Treatment
Other Diseases
(1) Foot and Mouth Disease (FMD)
  • Symptoms
  • Prevention and Treatment
(2) Hog Cholera
  • Symptoms
  • Control

www.entrepreneurindia.co
(3) African Swine Fever
• Symptoms
• Control
(4) Swine Influenza
• Symptoms
• Control
(5) Transmissible Gastroenteritis (TGE)
• Control
(6) Enteric Colibacillosis
• Symptoms
• Control
(7) Salmonellosis
• Symptoms
• Control
(8) Erysipelas
• Symptoms
• Control
Anthrax

- Symptoms
- Prevention and Treatment

Vaccination Schedule for Pigs

7. Pork Processing

Stunning

Stunning Methods
- Percussion Stunning
- Electrical Stunning
- Carbon Dioxide Gas Stunning

Bleeding
- Bleeding on a Rail
- Horizontal Bleeding
- Bleeding Without Stunning

Hair or Skin Removal
Skinning Method
Evisceration
Splitting and Head Removal
Chilling the Carcass
Carcass Cutting Equipment
Basic Equipment Needed for the Slaughtering Operation
Useful Additional Equipment

8. Sausages
Sausage Types
(1) Fresh Sausage
(2) Cooked Sausage
(3) Dry & Semi-Dry Sausages
(4) Luncheon Meats and Jellied Products
Sausage Ingredients
Sausage Recipes and Procedures
Fresh Pork Sausage
Italian Style Pork Sausage
Bratwurst
Nurnberger Bratwurst
Polish Sausage
Smoked Kielbasa
Coarse Ground Bologna
Frankfurters
Cooked Salami
Summer Sausage
Dry Beef Salami
Honey Loaf
Spiced Luncheon Loaf
Family Loaf

Main Types of Products Worldwide
(1) Frankfurters (Wieners)
(2) Grill Sausages
(3) Bratwurst
(4) Bologna
(5) Mortadella
(6) Mettwurst
(7) Breakfast Sausage
(8) Blood Sausage
(9) Weisswurst
(10) Liver Sausage

Processing Stages

(1) Ingredients and Additives
(2) Formulation
(3) Comminution
(4) Smoking/Cooking

Quality Aspects of the Finished Product

Safety Aspects

9. Bacon

Introduction

Processing Stages
• Traditional Wiltshire Curing
• Injection of Pork Sides

www.entrepreneurindia.co
• Immersion in a “Live Brine”
• Maturation
• Modern Wiltshire Cured Bacon
• Modern Bacon Production
• Pig Production and Slaughter
• Slaughter and Chilling
• Immersion Curing (Tank Curing)
• Bag Curing
• Dry Curing
• Smoking
• Tempering and High-Speed Slicing
• Packaging
• Storage Instructions

10. Cooked Ham
Introduction
Types of Products
Raw Materials
Processing Technology
• Reception
• Brine Injection
• Massaging and/or Tumbling
• Cooking
• Cooling
• Final Product

Quality Aspects of the Finished Product
• Color
• Texture
• Flavor

Safety Aspects

11. Chilling and Freezing of Meat
Definitions
Effects of Freezing

www.entrepreneurindia.co
Microbiological Effects
Mould Growth
Fat Rancidity
Physical Effects
Ice Formation – Mechanical and Chemical Effects
Effects on Meat Properties
• Colour
• Drip Losses
• Cooking Losses
• Fatty Tissue
Storage Life
Management of the Cold Chain
Types of Freezers

12. Meat Packaging
Advantages of Packaging
Purpose of Packaging
Requirements for Packaging Materials
(1) Single-Layer Films
(2) Multi-Layer Films

Types of Packaging
(1) Controlled Atmosphere Packaging (CAP)
(2) Vacuum-Packaging
(3) Masterpack
(4) Modified-Atmosphere Packaging

Packaging Guidelines for Meat and Meat Products

13. Sample Plant Layouts & Process Flow Sheets with Machinery Details
Niir Project Consultancy Services (NPCS) can provide Process Technology Book on Pig Farming and Pork Processing (Feeding Management, Breeding, Housing Management, Sausages, Bacon, Cooked Ham with Packaging)

See more
https://goo.gl/wmKShS
https://goo.gl/dcx0IR
https://goo.gl/jb6HHf
Visit us at
www.entrepreneurindia.co
Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd
Locate us on Google Maps

https://goo.gl/maps/BKkUtq9gevT2
Contact us

Niir Project Consultancy Services
106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com, info@entrepreneurindia.co
Tel: +91-11-23843955, 23845654, 23845886, 8800733955
Mobile: +91-9811043595
Fax: +91-11-23841561
Website: www.entrepreneurindia.co, www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on
#StreetView

https://goo.gl/VstWkd
Niir Project Consultancy Services

An ISO 9001:2008 Company

www.entrepreneurindia.co
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
- Business Plan
- Industry Trends
- Market Research Reports
- Technology Books and Directory
- 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.

www.entrepreneurindia.co
Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

www.entrepreneurindia.co
Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI’s
- Foreign Investors
- Non-profit Organizations, NBFC’s
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations

www.entrepreneurindia.co
Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
Bamboo And Cane Based Projects
Building Materials And Construction Projects
Biodegradable & Bioplastic Based Projects
Chemicals (Organic And Inorganic)
Confectionery, Bakery/Baking And Other Food
Cereal Processing
Coconut And Coconut Based Products
Cold Storage For Fruits & Vegetables
Coal & Coal Byproduct
Sectors We Cover

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer Based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing
Sectors We Cover

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
Sectors We Cover

- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing (Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc..

www.entrepreneurindia.co
Sectors We Cover

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.
Sectors We Cover

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
Sectors We Cover

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry (Packaged Drinking Water & Mineral Water)
- Wire & Cable

www.entrepreneurindia.co
Contact us

Niir Project Consultancy Services
106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.
Email: npcs.ei@gmail.com, info@entrepreneurindia.co
Tel: +91-11-23843955, 23845654, 23845886, 8800733955
Mobile: +91-9811043595
Fax: +91-11-23841561
Website: www.entrepreneurindia.co, www.niir.org
Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView
https://goo.gl/VstWkd
THANK YOU!!!

For more information, visit us at:
www.entrepreneurindia.co