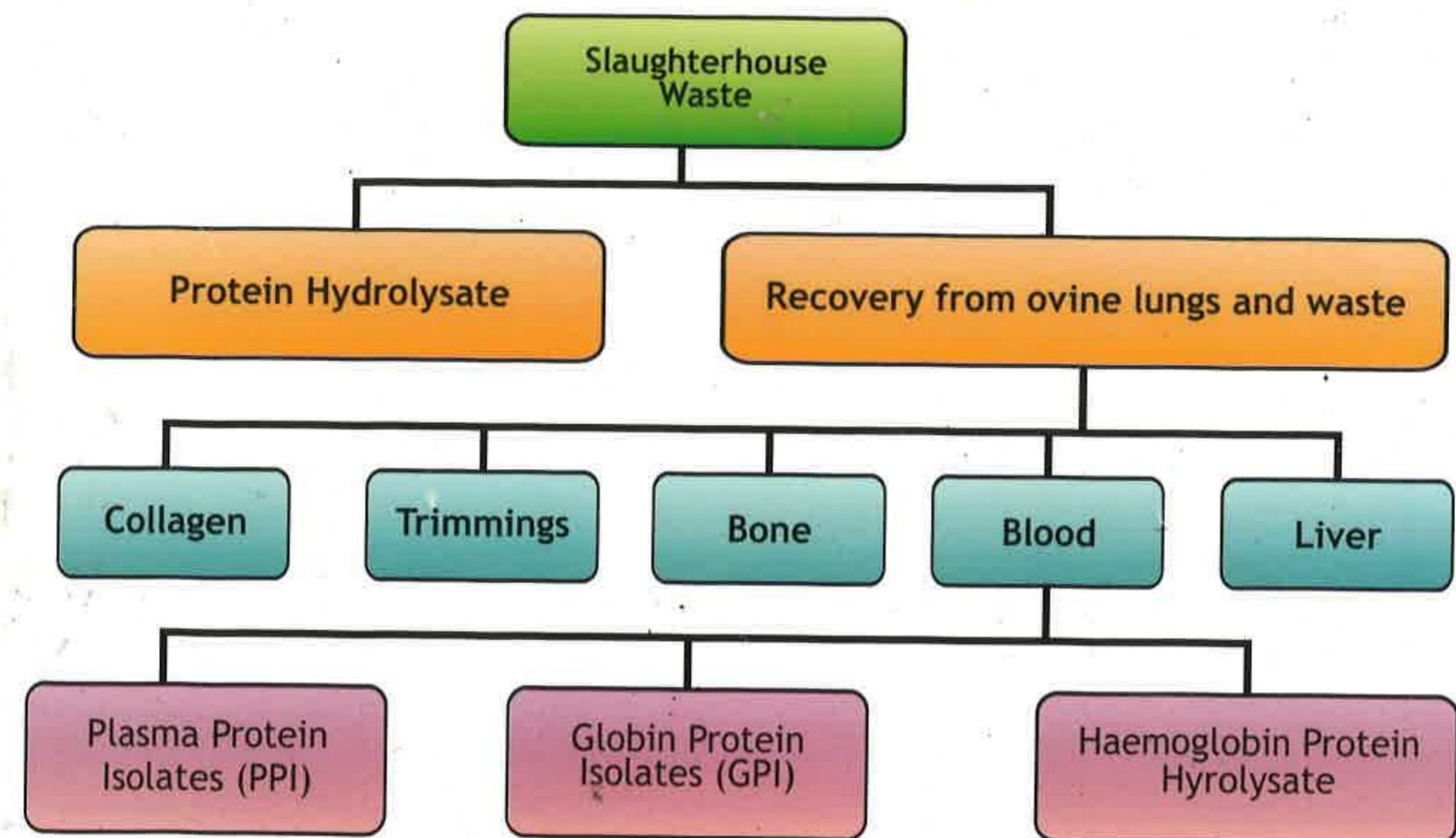


# Food Processing Waste Management

Treatment & Utilization Technology



Editors: V.K.Joshi & S.K.Sharma

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# 1

## Food Processing Industrial Waste — Present Scenario

VK Joshi & SK Sharma

### 1.1 Introduction

Due to the ever increasing world population, the demand for food would also increase. India is one of the largest food producer countries of the world (first in milk production, second largest in fruit and vegetable production and third largest in grains production). It is the seventh-largest country in the world, with a total land area of 3,287,263 square kilometres. India has varied climates of snow covered Himalayas, desserts, oceans, fertile plains and areas receiving the highest rainfall in the world. Name any food item; it can be grown in one or the other part of the country. All these make the production of various types of foods of plant (fruits, vegetables, cereals, pulses, oilseeds, spices etc) as well as animal origin (fish, meat, milk etc.) possible in the country. The annual production of cereals, fruits and vegetables is 260, 57 and 77 million tonnes respectively, besides this, the production of cow and buffalo milk is about 102.1 million tonnes and that of sugarcane and spices are 355.52 and 1.1 million tonnes respectively [15].

# Food Processing Waste Management

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“Food Processing Waste Management : Treatment and Utilization Technology” is a reference-cum-text book written in crisp and scientifically authentic language for teachers, scientists, researchers, students, industry managers, as well as all those who have a stake in food processing wastes management and utilization. It presents the latest information on the problems of wastes generated from various food industries. The contents have been divided into 14 chapters namely; Food Processing Industrial Wastes– Present Scenario, Impact of Food Industrial Waste on Environment, Grain Processing Wastes Management, Fruit and Vegetable Processing Waste Management, Milk and Dairy Waste Management, Meat Processing Waste Management, Fish Processing Waste Management, Spices and Condiments Industrial Waste Management, Sugar and Jaggery Industrial Waste Management, Fruit Kernel and Oilseed Processing Waste Management, Utilization of Waste from Food Fermentation Industry, Food Processing Waste Treatment Technology, Hospitality Industry Waste Management and Emerging Waste Management Technologies – Nanotechnology. All the segments of Food Industry and have been dealt with separately by specialists with respect to their wastes management technology. Special emphasis has been laid on the potential methods of utilization of the wastes for recovery of useful products and a supplementary means of checking pollution by their profitable utilization and disposal. The profitable utilization of the food industrial wastes would not only fetch extra profits to the industry but would also reduce the pollution load in the environment. The special feature of the book is that it covers different developments made right from the basic technologies generated for wastes management to the recent advancements and future areas of research to be done on the subject. Both for undergraduate and post-graduate degree or diploma programmes of food science and technology, postharvest Technology and fermentation technology, waste management as a subject is taught in almost all the agricultural universities in India as well as abroad. The book is expected to be very useful to the students of these disciplines. It is hoped that the treatise would be of immense value to all and would certainly open an insight into food waste management technology in the fast growing food processing industry.

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