

# **Wealth from Farm Waste**

By Kulkarni VV

Agrotech Publishing Academy

# **WEALTH FROM FARM WASTE**

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**Agrotech Publishing Academy  
UDAIPUR**

**Published by :**

**Mrs. Geeta Somani**  
**Agrotech Publishing Academy**  
11A-Vinayak Complex-B  
Durga Nursery Road, Udaipur  
Mob. : 9414169635, 9413763031  
Email : agrotechbooks@rediffmail.com  
Website : www.agrotechbooks.com

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**Reprinted 2016**

First Edition 2013  
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**ISBN : (13) 978-81-8321-284-7**  
**ISBN : (10) 81-8321-284-0**

Typeset by :  
**Image Print Media, Udaipur**  
imageprintmedia@rediffmail.com  
Contact No. : 9413467622, 2413922

Printed in India

## **PREFACE**

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Livestock and agriculture are inseparable rural activities in India and are responsible for livelihood of nearly 75 per cent of the Indian population. The household livestock and agricultural activities are now slowly turning into medium and large scale commercial avocations. It will not be fair to say that the livestock including poultry, fishery and agricultural by-products are wasted, but they are rather underutilized. Value addition to these by adopting eco-friendly technologies will generate more revenue and reduce environments pollution.

Current pace of urbanization, consumerist societies and waste generation pose formidable challenges to global sustainability in many ways. Most of the developing Asian countries have been experiencing waste management problems in terms of collection, disposal, financial constraints and weak policy instruments. In the recent years, the 3 'R's of waste management viz. Reduce, Reuse, Recycle initiatives of good practices and educational campaigns have been promoting the values of integrated waste management and resource consumption.

Recent World Bank survey reveals that the urban areas in Asia generate 760,000 tons of municipal solid waste per day and in the year 2025; this figure may reach 1.8 million tones per day. Not only in the urban areas but also in rural parts of every nation, production and accumulation of waste create great hazards, leads to endangering the environment unfit for human habitation. Specifically methane production by the bovine dung, poultry droppings and incineration of agricultural waste increase the green house gases and reduce the oxygen content in the atmosphere. Global warming potential of Methane is stronger

than carbon dioxide hence more carbon credits can be obtained in waste management projects. Present system of collecting, transporting and dumping the waste in an open area is not a correct method of waste disposal. Hence it becomes a challenge for human society as a whole especially scientific community in particular to find solutions to convert the waste into wealth.

This compilation is a humble attempt to generate awareness amongst the academicians, entrepreneurs and students. We have tried to make the topics as comprehensive yet in simple language for the benefit of the readers, however certain errors may creep in for which suggestions and comments will be appreciated.

**VV Kulkarni**  
**A Kalaikannan**  
**D Santhi**

## **ACKNOWLEDGMENT**

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No compilation is possible without the contributions and help from colleagues and friends. Editors wish to wholeheartedly thank all the resource persons for their efforts in writing the manuscripts and putting their ideas in making the information available for the benefit of the readers.

Authors wish to thank the ICAR for sanctioning the summer school on “Wealth from waste of poultry farm, livestock farm and poultry meat processing plants” and the Tamil Nadu Veterinary and Animal Sciences University, Chennai for providing necessary facilities .

## ABOUT THE BOOK

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This is a compilation of the articles and guest lectures contributed by renowned personalities during a national level ICAR Summer School on **“Wealth from waste of poultry farm, livestock farm and poultry meat processing plants”** conducted by the Department of Meat Science and Technology on the occasion of the Silver Jubilee celebrations of Veterinary College and Research Institute at Namakkal during 2010.

The articles cover wide range of topics like present scenario of waste utilization, quantum and type of waste generated from agricultural and livestock, poultry activities, importance of waste utilization and treatment of waste. The improved ways of waste utilizations covered include composting, vermi-compost, rendering, bio- remediation, bio-methanization, incineration, treatment of effluents etc. Emerging topics like clean development mechanism, bio-ozolyte treatment, and bio-energy are also covered. Hence it is felt that this compilation will be useful for the academician, students and entrepreneurs for getting knowledge on waste utilization.

## ABOUT THE EDITORS

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**Dr. V. V. Kulkarni**, is presently working as Professor and Head , Department of Meat Science and Technology, Veterinary College and Research Institute, Namakkal- 637002, Tamil Nadu. Dr.Kulkarni is associated with various research projects in the major field of utilization of slaughterhouse by-products, solid and liquid waste utilization and rendering, *etc.* Dr. Kulkarni has professional experience of about 25 years and has published 39 research articles, 4 reviews, 66 popular articles, 5 books, 4 manuals and pamphlets and DVDs.

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## PLEDGE ON WASTE MANAGEMENT

We, with serene mind and open heart swear to realize and  
act that nothing is waste but wealth

Why do you think anything is waste?

Change into something of your taste,

Don't throw anything in haste

Reuse by making it into pulp and paste

Beauty lies in both sides of paper also; double sided weapon is  
dangerous, double sided paper is marvelous. More trees and  
trash free society is gorgeous.

Night less towns makes lightless villages,  
Power wastage in a day causes power cut in night

Think about waste water dumped in the stream  
Recycle and reuse to make the earth green  
When the factory machines are hot under the collar  
You can cool them without wasting a dollar

Over flowing water makes the earth hotter

Let our fans and lights take rest when we are out of our nest

Will to kill the trees will cull the human to nil

Usage of garbage will bring the gold age  
Make mother earth free of garbage

We swear that dust bin must win

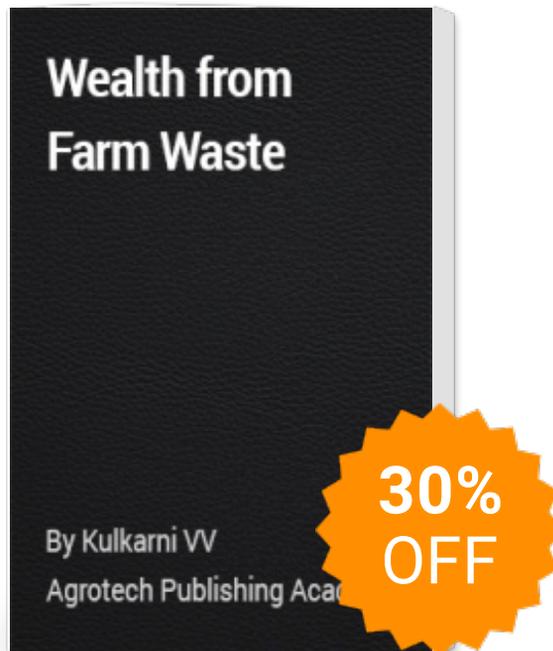
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# Wealth from Farm Waste



Publisher : **Agrotech**  
Publications

ISBN : 9788183212847

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Type the URL : <http://www.kopykitab.com/product/7290>



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