

## Re-DVV Clarifications

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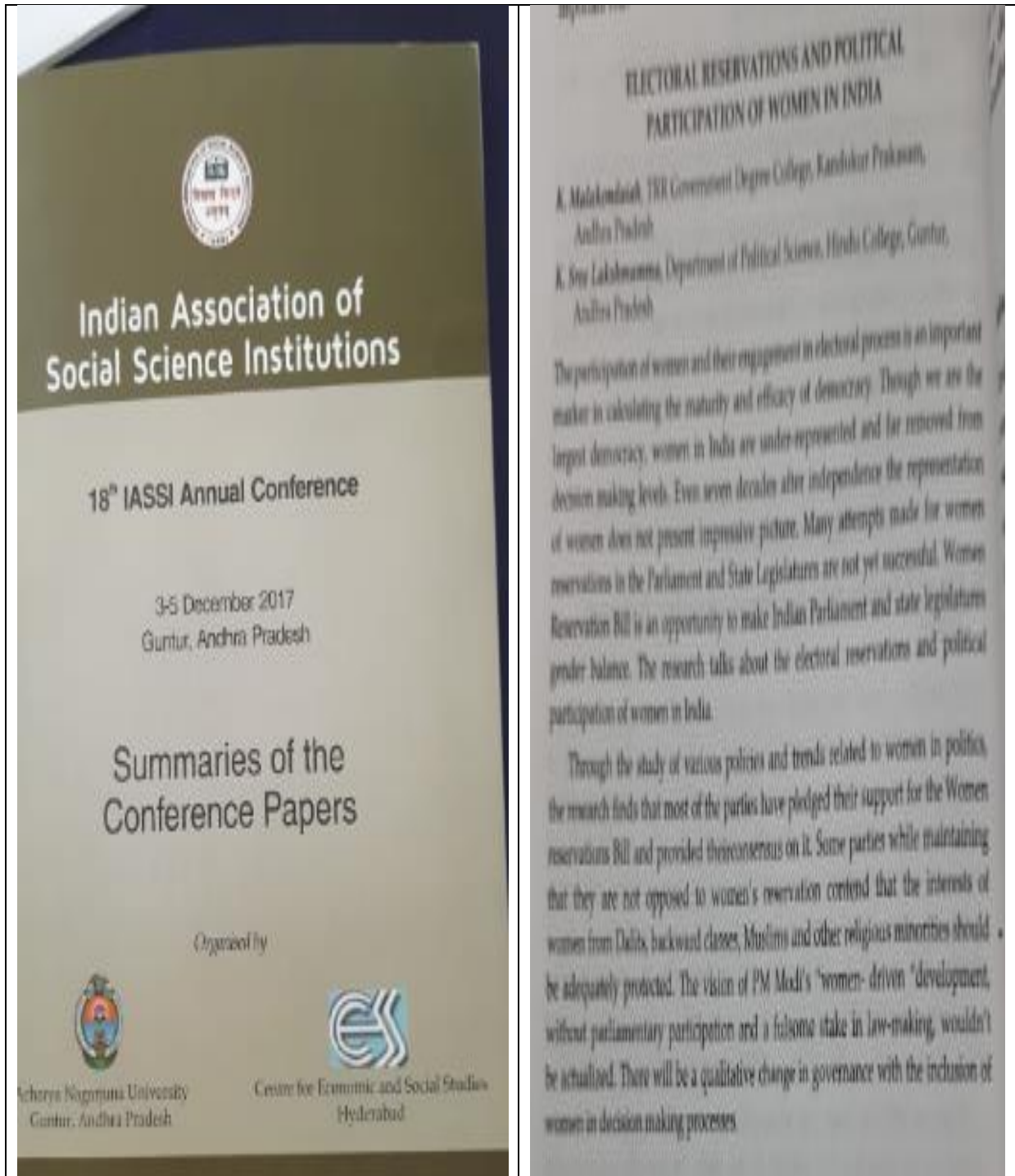
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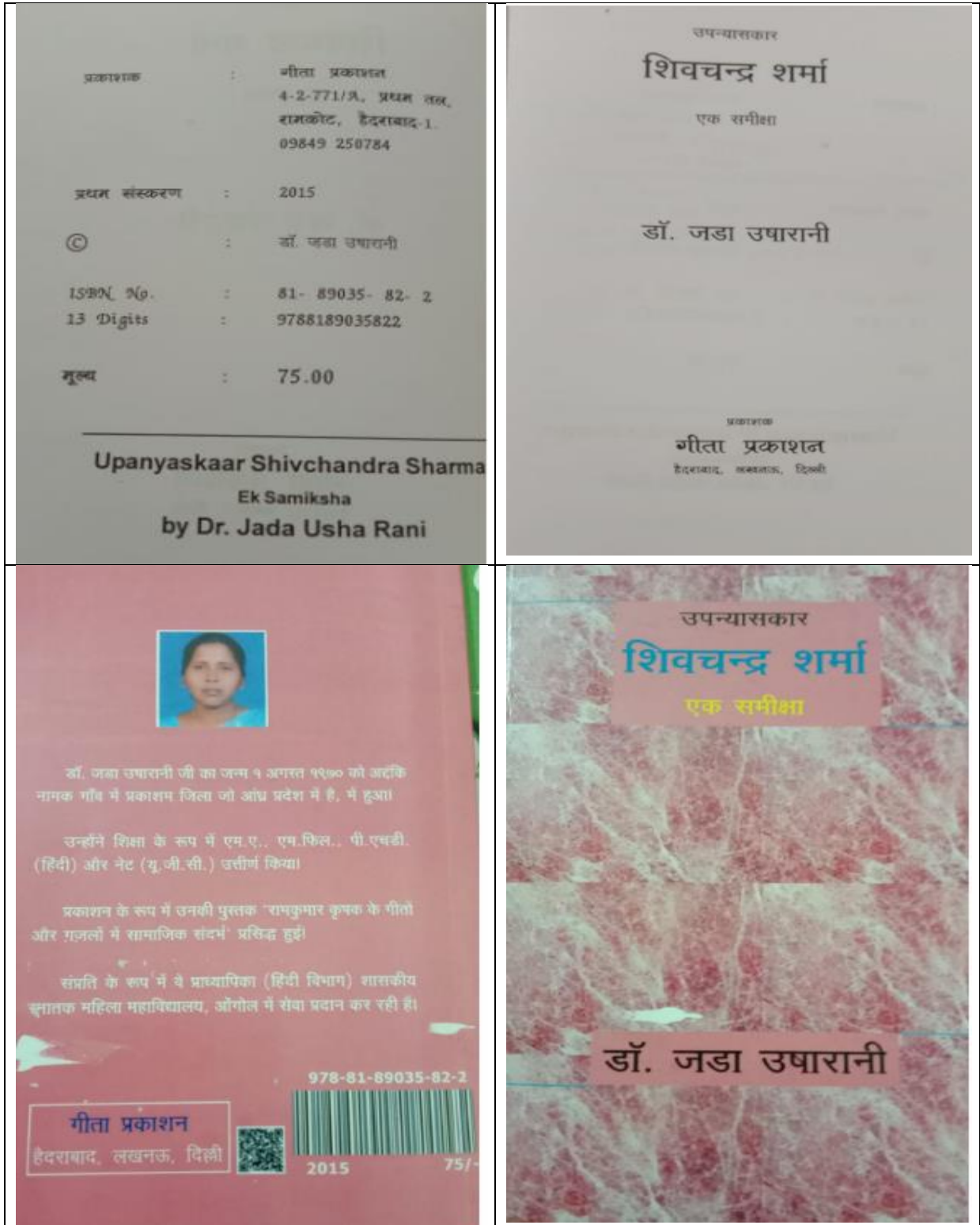
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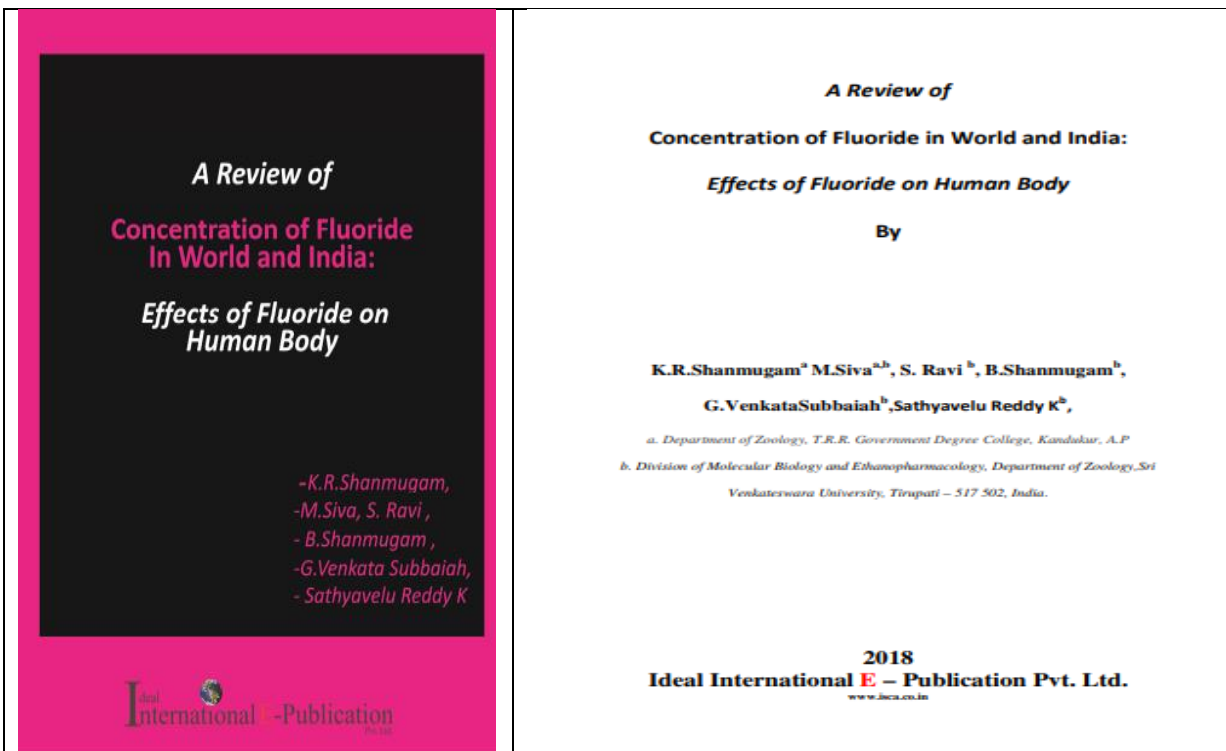
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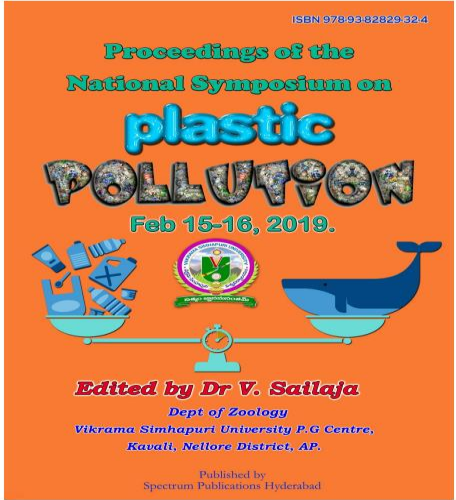
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Vikrama Simhapuri University P.G Centre,  
Kavali, Nellore District, AP.

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**BIODEGRADATION OF BIOPLASTICS IN NATURAL ENVIRONMENTS**

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**ABSTRACT**

Plastics have been one of the highly valued materials and it plays a significant role in human's life such as in food packaging and biomedical applications. The extensive production of conventional plastics and their use in different commercial applications poses a significant threat to both the fossil fuels sources and the environment. The biodegradability of bioplastics is highly affected by their physical and chemical structure. On the other hand, the environment in which they are located, plays a crucial role in their biodegradation. According to biodegradability test, all bioplastic produced are proven biodegradable. Bioplastic materials can gradually work as a substitute for various plastic materials. Therefore, the application of the bioplastics as an alternative to plastic based materials which are harmful to the environment. According to biodegradability test, all bioplastic produced are proven biodegradable. Therefore, the results showed possible application of the bioplastic as an alternative to plastics which are harmful to the environment.

**Keywords :** Plastic, Bioplastics, Environment

**Introduction :**

Global utilization of plastic materials is a major concern to our society and environment due to their recalcitrant nature and threat to fossil resources (Chen and Patel 2012; Zhu *et al.* 2016). Also, the non-degradability of plastics leads to their accumulation in millions of tons in the land and oceans, causing a severe threat to foodweb and ecosystem (Eriksen *et al.* 2014; Jambeck *et al.* 2015).


Plastic materials originated from petrochemicals cause serious environmental problems due to their non-degradable nature. Such synthetically produced polymers are generally inexpensive, but their persistence has a significant environmental impact. With the imminent fossil fuel crisis, the alarming rate of petroleum prices and environmental impact associated with the products, the search for alternatives is essential in reducing mankind's dependencies in non-renewable resources.

Biodegradation of any plastic is processes that happen at solid/liquid interface whereby the enzymes in the liquid phase depolymerize the solid phase. Both bioplastics and conventional plastics containing additives are able to biodegrade. Bioplastics are able to biodegrade in different environments hence they are more acceptable than conventional plastics. Biodegradability of bioplastics occurs under various environmental conditions including soil, aquatic environments and compost. Both the structure and composition of biopolymer or bio-composite have an effect on the biodegradation process, hence changing the composition and structure might increase biodegradability. Soil and compost as environment conditions are more efficient in biodegradation due to their high microbial diversity. Composting not only biodegrades bioplastics efficiently but it also significantly reduces the emission of greenhouse gases.

Biodegradability of bioplastics in compost environments can be upgraded by adding more soluble sugar and increasing temperature. Soil environments on the other hand have high diversity of microorganisms making it easier for biodegradation of bioplastics to

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K. Malakondaiah, K. Sri Lakshamma, "Indo - African Political and Diplomatic Relations", International Conference on New frontiers in India-Africa relations, A multi Disciplinary focus on Political, Socio-Economic, Administrative, Sports and Educational aspects.



The cover features a world map with India and Africa highlighted, a photograph of Sri Venkateswara University, and the names of the organizers: Prof. K. Malakondaiah and Prof. K. Sri Lakshamma. The title is 'Abstracts' for the 'International Conference on New Frontiers in India - Africa Relations'.

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**Indo African Political and Diplomatic Relations.**

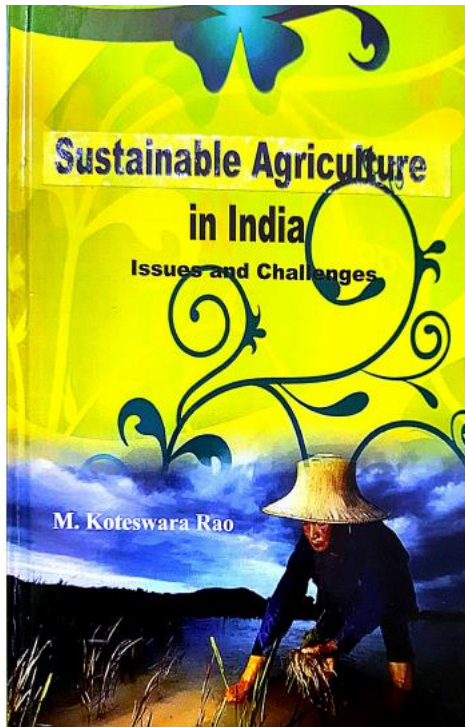
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India and Africa share a rich history of political interactions, rooted in the spirit of developing together as equals. After independence India manifested its strategic role in the international platform on Apartheid. India supported African struggles of decolonization and the quest for development. India's Foreign Policy is rooted in Africa based on equality, mutual respect and benefits. India's Foreign Policy is rooted in Nehru's inclinations towards multilateralism and South - South solidarity. India's role in peace keeping in the continent and her generous assistance towards capacity building in the defence sector have been widely appreciated. India has been supporting its African regional institutions. India African Forum, BRIC for Cooperation under the auspices of African's capabilities to fight international terrorism. India believed that the UN Security Council must reflect contemporary geopolitical realities. Many countries in Africa have expressed their support for India's call for reform and expansion of UN Security Council and democratization of IMF and World Bank. The present paper under takes to examine India's political and diplomatic relations with a large to future cooperation in Africa. In the process scenario India has to accelerate engagement with Africa by improving bilateralism in the diplomatic process and has to evolve a soft policy strategy. India needs to articulate a policy on Africa and engage with the continent through a doctrine.

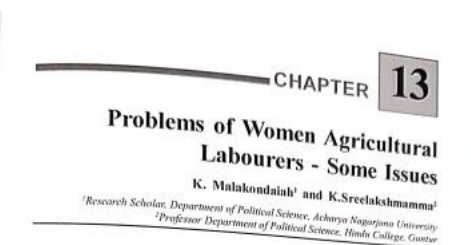
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x Sustainable Agricultural in India: Issues and Challenges

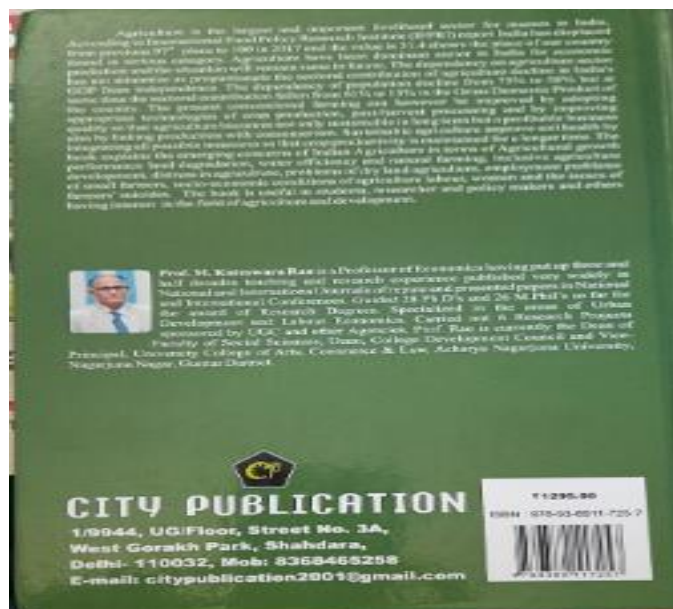
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1. Introduction

Agriculture is the largest sector of the rural economy and is a family enterprise, since 56 per cent of its population is dependent on it in India. India's economic security is heavily dependent on agriculture. In terms of employment, it is the most important sector. Women in India are the backbone of the society and important human resource. They play a significant and crucial role in agriculture and allied operations and household activities. Traditionally, women have always played an important role in agriculture – as farmers, co-farmers, family labour, wage labourers and managers of farms. The selection, preservation and maintenance, the development and sharing of seed stock has long been preserve of women. They have been active not just in crop cultivation but also in allied areas such as horticulture, livestock and fisheries. The fact is that women's contributions in these sectors have either been largely ignored or inadequately acknowledged. Women constitute nearly half the population in any country either it is developed or developing country. Accordingly to U.N. Reports, "Women are almost half of the adult population. They constitute one-third of labour force but consume two-thirds of the world's working hours and yet earn only one-tenth of the income and own only one per cent of world property.

Women constitute in innumerable way to the development process. Broadly their contribution to socio-economic development has two fold i.e., i) in the home ii) outside the home. In the home, women's role as daughter, wife and mother cannot be under estimated. A woman as a caretaker of the members of the family attends to food requirements. She looks after the health of all members of the family. Woman is also the first teacher. The training imparted by her to the child forms the basis of future skills formation among the work forces. Outside home, a woman tries to be an equal and able partner in the economic activities. In agriculture, she is engaged in seeding, planting, weeding, irrigating, processing, harvesting and threshing operations. In Economic terms women:





Shaik Mastan Vali & O. Aniel Kumar & S.B. Padal, "Studies on ethno-medicinal plants used by Chenchu Tribals in Giddalur forest division of Prakasam district, Andhra Pradesh, India", volume 5, issue 4, oct. – dec. 2018, e-ISSN 2348 –1269, print ISSN 2349-5138, <http://ijrar.com/>, p.no-147-153.

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## Studies on ethno-medicinal plants used by chenchu tribals in Giddalur forest division of Prakasam District, Andhra Pradesh, India.

SHAIK MASTAN VALI & O. ANIEL KUMAR & S.B. PADAL

DEPARTMENT OF BOTANY, ANDHRA UNIVERSITY, VISAKHAPATNAM, ANDHRA PRADESH.

Received: September 02, 2018

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### ABSTRACT

An ethnobotanical exploration was conducted to collect information about medicinal plants used for the treatment of diabetes and associated complications by the chenchu tribals in Giddalur forest area, Prakasam district, Andhra Pradesh, India. The indigenous knowledge of local traditional healers and tribal doctors of chenchu for native plants used for the treatment of diabetes related health disorders were collected through questionnaire and personal interviews. The present study describes the identification of plants and documentation of plants well known for medicinal value by the virtue of the tribal traditional practices. A total 10 informants with in the age group of 50-75 were interviewed, among them two were herbal practitioners. Our investigation revealed that, the local ethno-medicinal knowledge remains pretty specific to each single area and the traditional healers, tribal inhabitants use 30 species of plants belonging to 22 families to treat diabetes and related complications. Antidiabetic medicinal plants used by chenchu tribes have been listed along with preparation of their medicine. This paper showed many medicinal plants from different families of which are purely anti-diabetic potential.

**Keywords:** Antidiabetic plants, Giddalur forest area, Chenchu tribes, ethnobotanical plants.

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Deepak K. Mishra • Pradeep Nayak  
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**Land and Livelihoods  
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CHAPTER 8

**Agricultural Land Markets in India: A Case  
of Maharashtra**

**Ch. Sankar Rao**

1 INTRODUCTION

Property in the soil is the original source of all wealth (Marx 1970). For many households in rural India, agricultural land is not only a production factor but also key asset. The well-functioning of markets for such soil, that is, land is important for its equitable access and efficient use. In an expanding economy like India, the market for agricultural land has been undergoing many changes, especially in the late reforms period. The land prices in India have exponentially increased during post-liberalization period, much above the prices in advanced nations (Chakravarty 2013).<sup>1</sup> There is a situation of land price bubble during rapid but skewed economic growth period (Hirashima 2008). There were contrasting evidences about the benefits of land sale markets in India. Some studies found that

<sup>1</sup>The average price of agricultural land per acre in India is close to the price of Illinois, a high-productive corn-belt state in the United States, and is more than the average prices in Spain, France and Germany. But the productivity of land in India is much lower than in the above countries (Chakravarty 2013).

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## Agriculture and Rural Transformation

Issues and Challenges

(With Special Reference to North-East India)

Edited by

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Giribabu M.**



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*Ch. Shankar Rao*

# 1

## Change in Cropping Pattern and Its Factors

A Study of Undivided Andhra Pradesh

Ch. Shankar Rao

Cropping pattern (CP) is a manifestation of the cropping being adopted. To augment the growth of agriculture production, adoption of scientific CP optimally suited to the technological changes is essential. The main objectives of a cropping system are stable agricultural growth and income, balanced diet food security, and environmentally sustainable development. The present cropping system and the strategy crop diversification (CD) in Andhra Pradesh, India, is not fully ensuring any of these above-mentioned objectives, as the agriculture in the state is undergoing a crisis, that is, farmer suicides, stagnation in yields, decelerating growth rates, declining net farm incomes, and falling per capita nutritious food grain (coarse cereals and pulses). CP in India, particularly in Andhra Pradesh, has witnessed a tremendous change during the green revolution period. The second wave of change in the CP took place post green revolution period.

The changes in the CP vary over space and time. It is believed that the CP of a region may show a shift from traditional varieties of crops to new high-yield varieties of crops. These type of changes in CP may lead to redistribution of land resource to different crop enterprises, which ultimately have bearing on accelerating growth of crop efficiency in the region (Dhindsa and Sharma, 1995). The cropping decisions are taken by individual farmers. The decisions about the cropping system are usually based on experience, tradition, expected profit, personal preferences, as well as technological and institutional factors. Farmers allocate their land among alternative crops to maximize their expected returns subject to economic, technical, and institutional constraints (Deshpande et al., 2004). Expected normal price was found

*Ch. Shankar Rao*

Ch.Sankar Rao, G.Sudhir, M.A.Bari, Amir Ullah Khan, Abdul Shahan, "Access to credit and Banking facilities by Muslim Households in Telangana, Muslims in Telangana-A Discourse on Equity, Development and security", Springer Nature Singapore Pvt. limited, 2021, <https://doi.org/10.1007/978-981-33-6530-8-13>, Chapter 13, P.NO-273-278

G. Sudhir · M. A. Bari · Amir Ullah Khan ·  
Abdul Shaban  
Editors

## Muslims in Telangana

A Discourse on Equity, Development,  
and Security

### Chapter 13 Access to Credit and Banking Facilities by Muslim Households in Telangana

Ch. Sankar Rao

**Abstract** This chapter examines the access of Muslims to banking and credit facilities in Telangana. For the purposes, study uses both qualitative and quantitative information from various sources, such as committee reports, government departments, the unit level data from Debt and Investment Survey of National Sample Survey Office (NSSO), 70th Round, 2013. The study shows that Muslims have lower access to banking and credit facilities compared to Hindus and other socio religious groups, and Muslim borrowing is more for consumption purposes than for productive investments. The chapter suggests a comprehensive credit policy for Muslims in Telangana.

**Keywords** Financial inclusion · Religious minorities · Telangana · Muslims · Security of loans

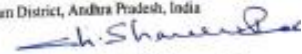
#### 13.1 Introduction

Access to credit is essential for households and firms to fulfil their needs in consumption, production, investment, etc. Despite the fast growth of bank credit in India<sup>1</sup> during the post-liberalization period, the issue of inclusiveness in access to credit among different socio-religious groups, especially Muslim minorities, remains a matter of serious concern. Unequal access to formal financial institutions across socio-religious communities can perpetuate disparities within and across the communities. The financial exclusion is important for Muslims in India for their socio-economic and educational upliftment. According to the Sachar Committee Report, economic empowerment and financial security is an important initiative to uplift the socio-economic status of the Muslim community (GoI, 2006). The Sachar Committee highlighted the point that majority of the Muslims engage in casual labour and self-employment and their representation in the proper salaried jobs of the public and private sectors is lower than other socio-religious groups (GoI,

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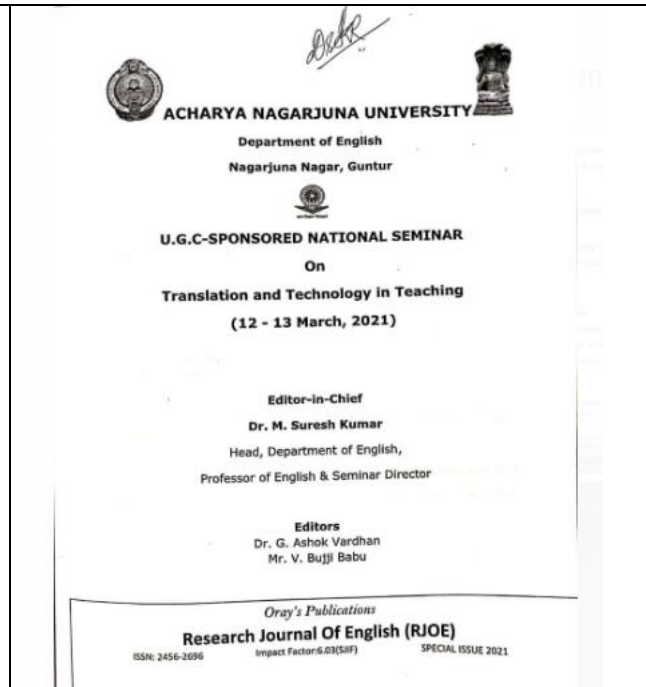
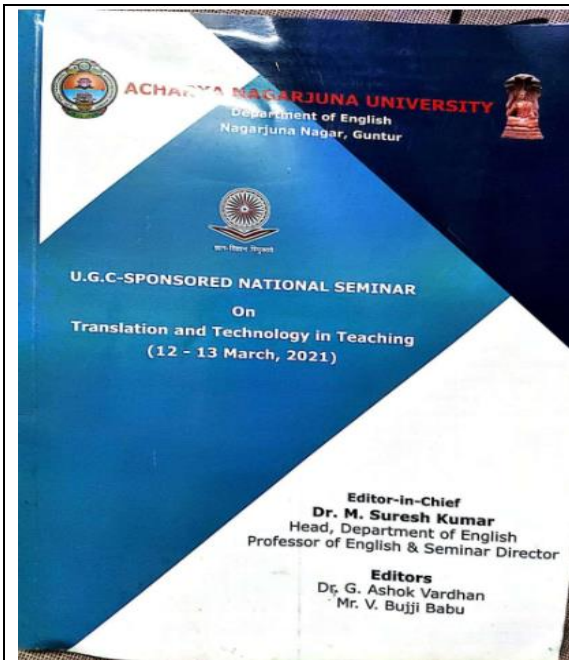


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**THE LANGUAGE OF POSTCOLONIAL POETICS**

Dr. I. Kesava Rao, Dept. of English, VSR&NVR College, Tenali

**Abstract**

Our values and ideologies are encoded in the language we use. The colonial venture actually begins in language. The power of language is manifested in the way the colonizers construct knowledge of the colonized people and try to define their identity. The colonized people internalise the language of their colonial masters and realize that their values need to be reformed by the westerners. The colonizing languages want to stifle the tremendous inventiveness of the indigenous languages.

**Keywords:** Values, colonial language, colonizer, knowledge, indigenous language.

Our values and ideologies are encoded in the language we use. The colonial venture actually begins in language. The power of language is manifested in the way the colonizers construct knowledge of the colonized people and try to define their identity. The colonized people internalise the language of their colonial masters and realize that their values need to be reformed by the westerners. The colonizing languages want to stifle the tremendous inventiveness of the indigenous languages.

The colonized people can either reject the language of the master or choose the mode of appropriation and subversion. The colonial language contributes to the disappearance of minority languages and can make all other language unnecessary. English becomes a global language due to its formidable economic power. The status of English as national language provoked debate in the colonized countries. The dominance of English in India serves the purpose of the elites but the millions of Indians are excluded from the cultural and administrative activities done in that particular language. The dependence on English resulted in a linguistic divide and inequality of opportunities. **Keywords:** Language is of utmost importance. If you look at the area of cultural environment, language is the key. It is the means whereby we communicate with one another for the production of wealth. It is also, what I have called elsewhere, a collective memory bank of a people. (1996: 10)

Ngũgĩ WaThiong'o, author of Decolonising the Mind: The politics of language in African Literature (1986) has adopted the rejection of English. "On the Abolition of the English Department" was published in the collection Home coming: Essays on African and Caribbean Literature, culture, and politics. gives his reason for giving up English language, he started writing in Gikuyu, an indigenous language. He rejected looking at the world through the lens provided by the colonizers. He believes that the indigenous languages are suppressed by the colonizers tongue.

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# Thermal Slip Flow of a Three-Dimensional Casson Fluid Embedded in a Porous Medium with Internal Heat Generation

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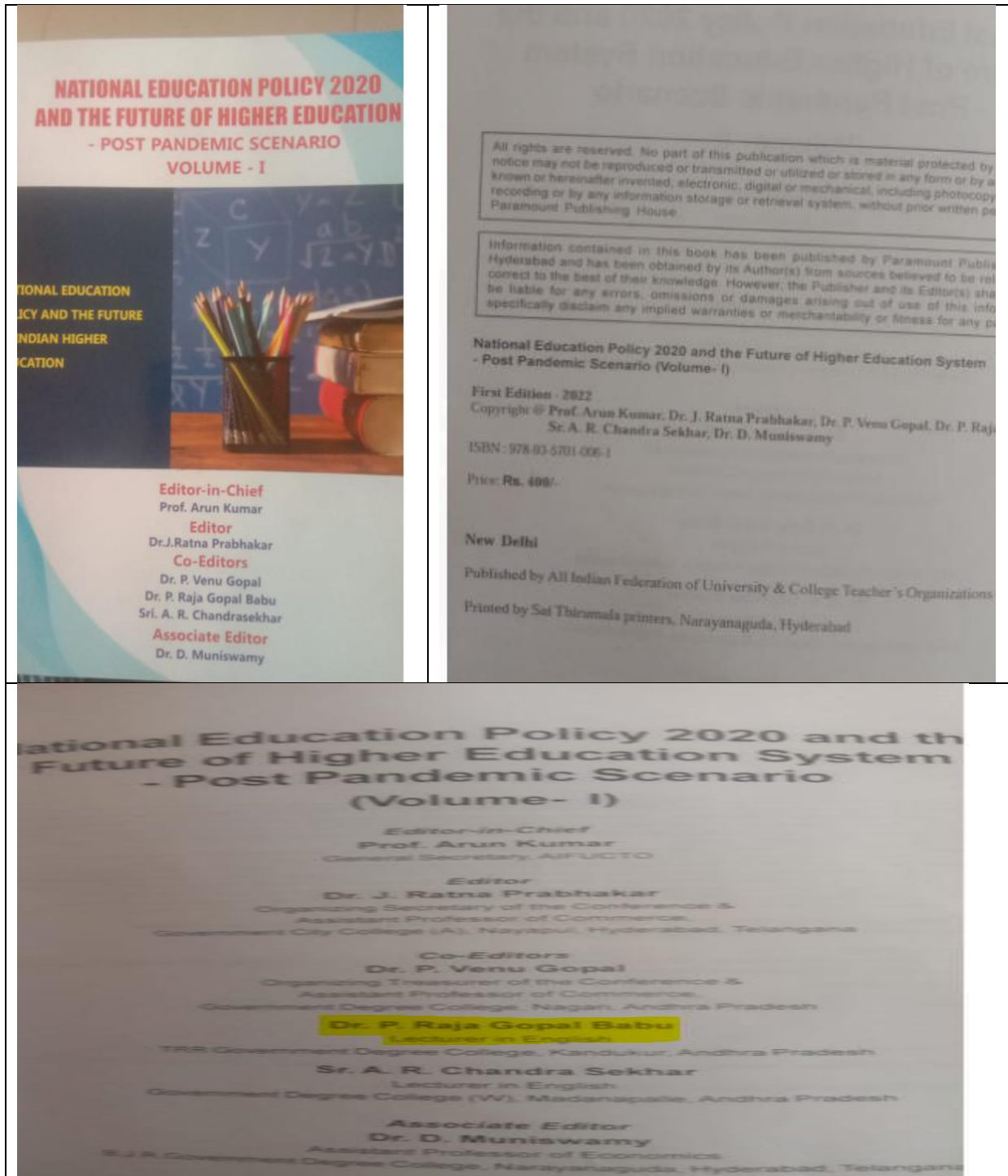
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Present assessment is considered to analysis flow as well as heat characteristics of steady, thermal slip flow of three-dimensional Casson fluid embedded in a porous medium with internal heat generation. Geometry of the present analysis is linearly stretched surface. Later, all the PDEs corresponding to the study are altered to set of nonlinear equations ODEs by means of appropriate similarity transformations. An efficient numerical scheme of spectral relaxation method (SRM) is applied to solve the nonlinear ordinary system. Variations of Nusselt number, temperature, velocity, and local skin friction coefficient with fluid parameters exhibited by

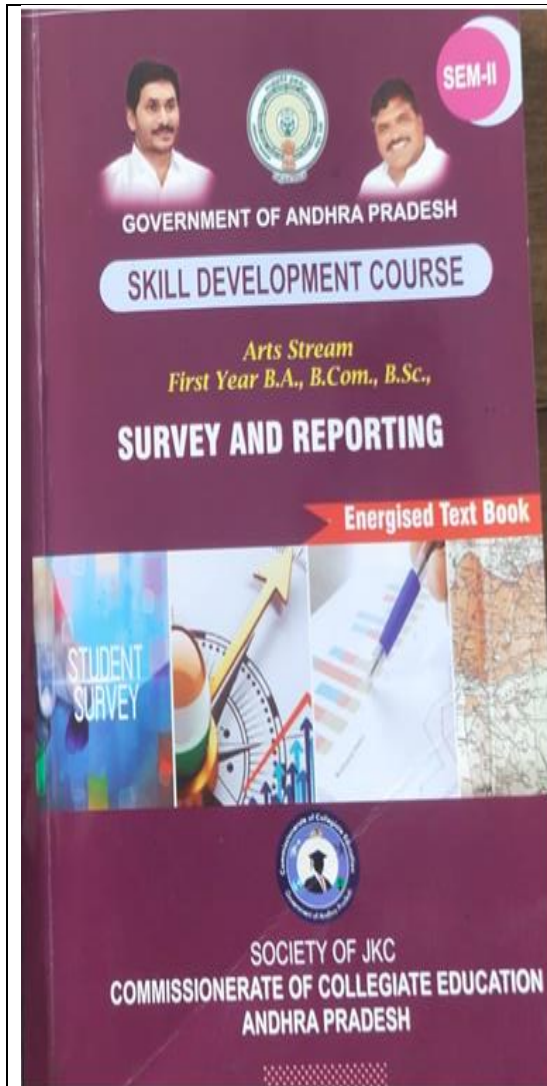
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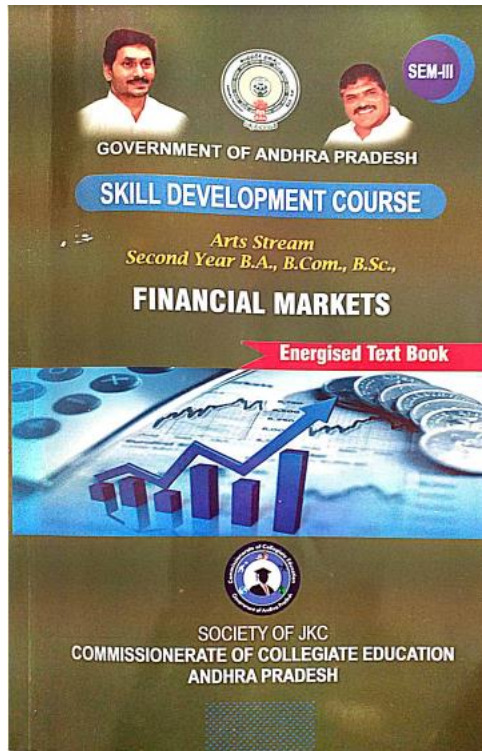
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