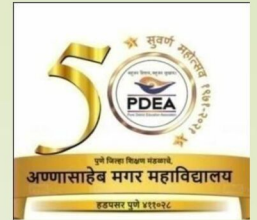




# Pune District Education Association's Annasaheb Magar Mahavidyalaya

Hadapsar, Pune- 411028

Affiliated to Savitribai Phule Pune University, Pune



## Self Study Report: 2024 (4<sup>th</sup> Cycle)



### **Criterion – 3** **Research, Innovation and Extension**

#### Key Indicator 3.3- Research Publication and Awards

##### **Metric: 3.3.2 (QnM)**

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years



Submitted to  
**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL BENGALURU**

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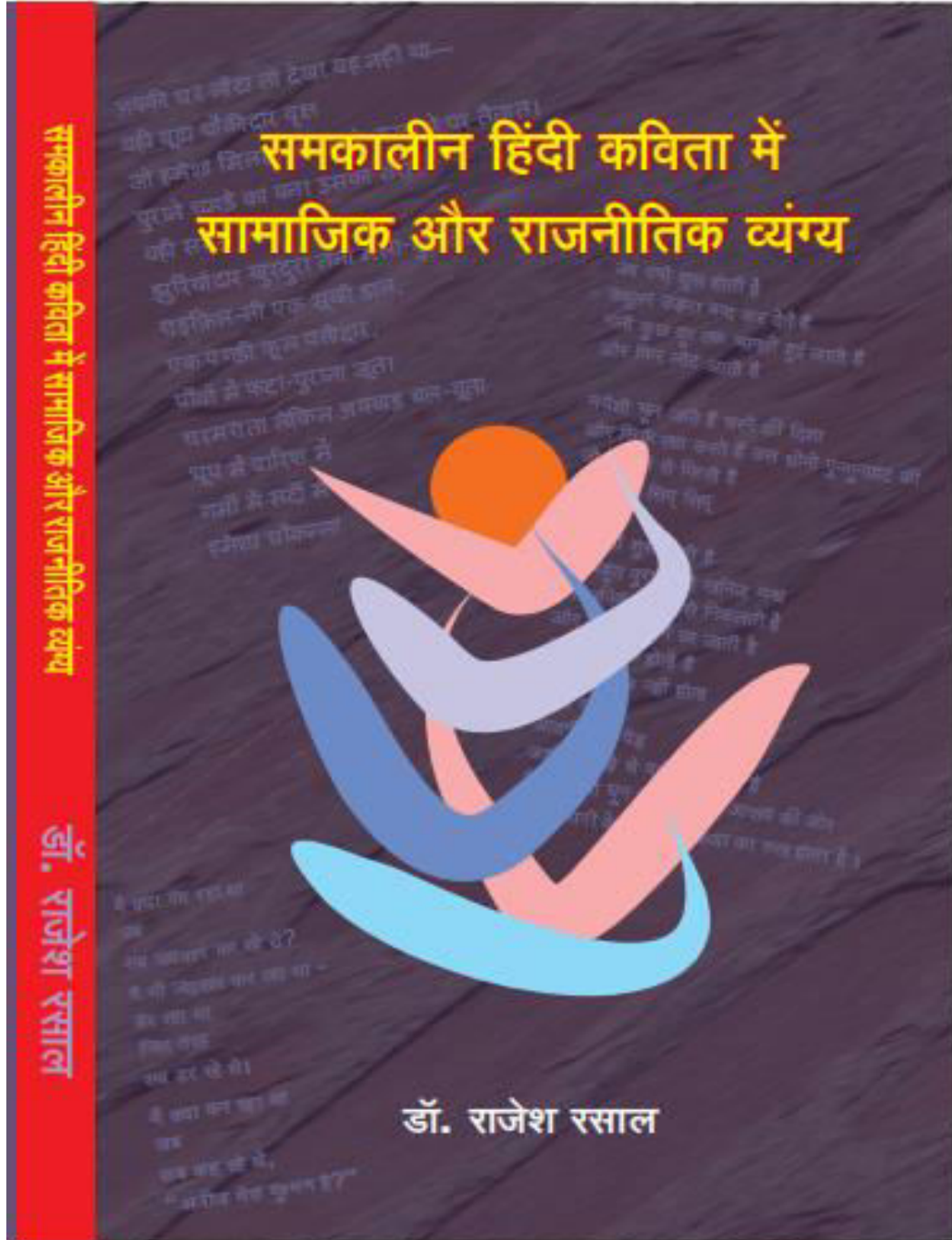
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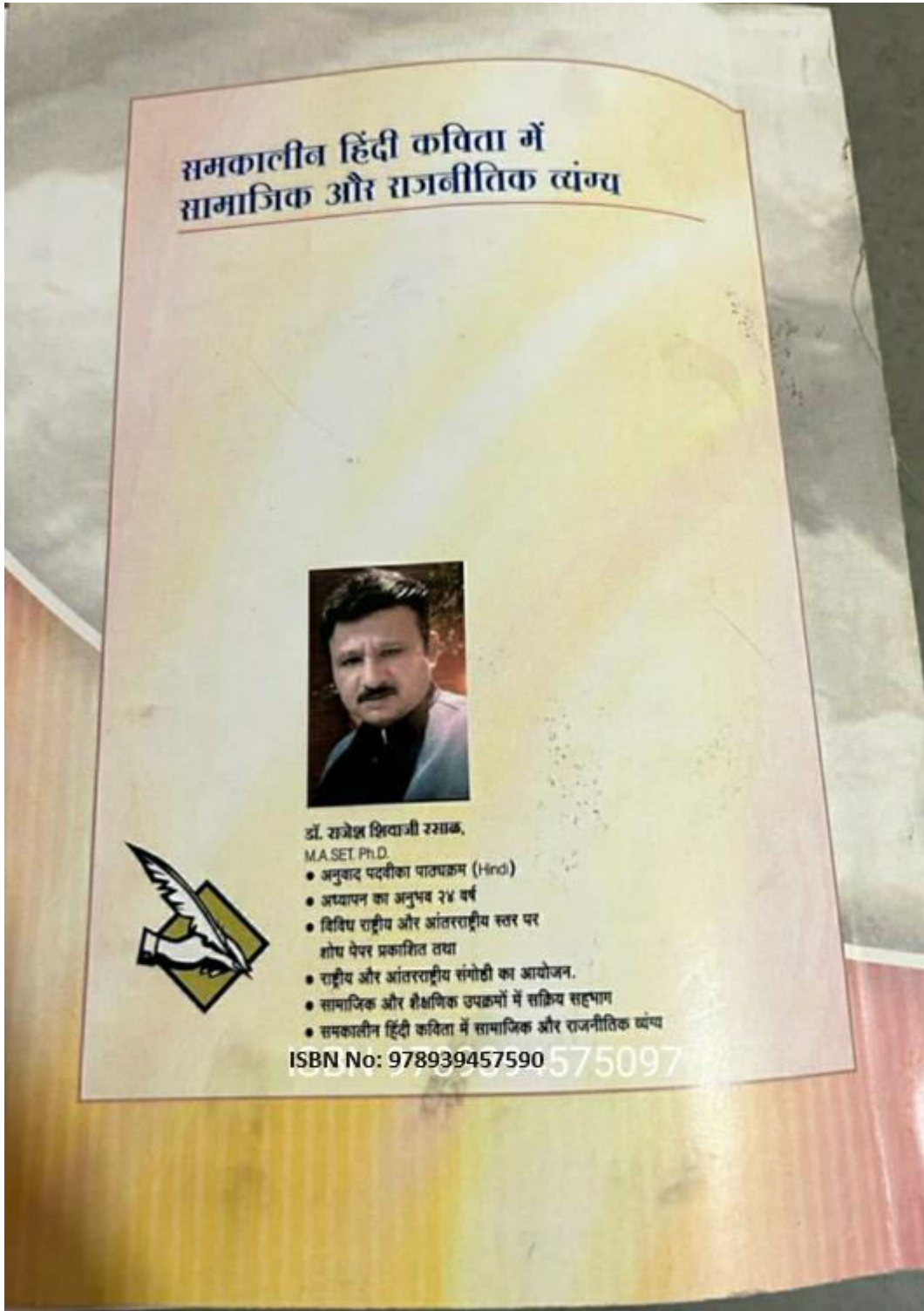
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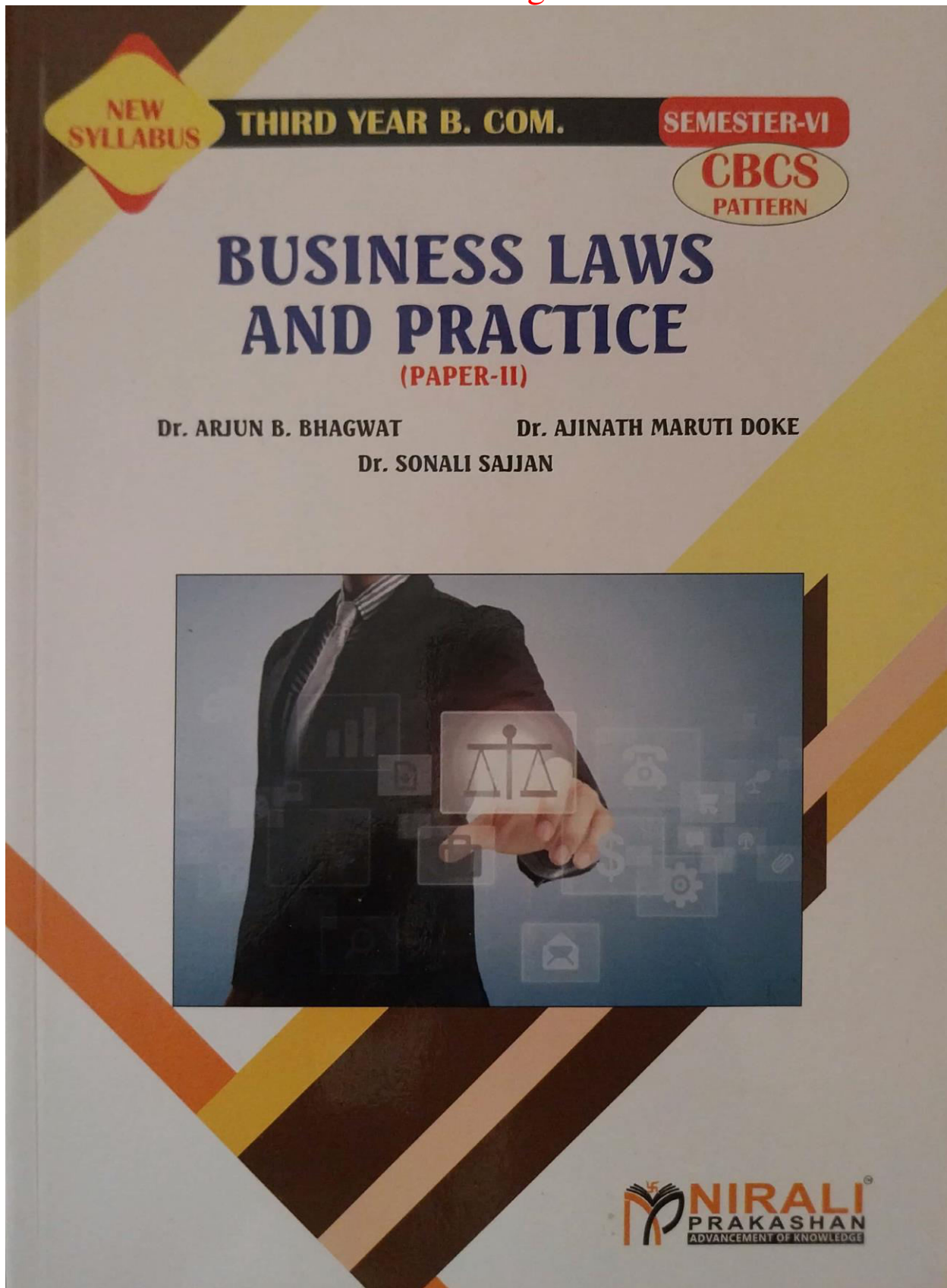


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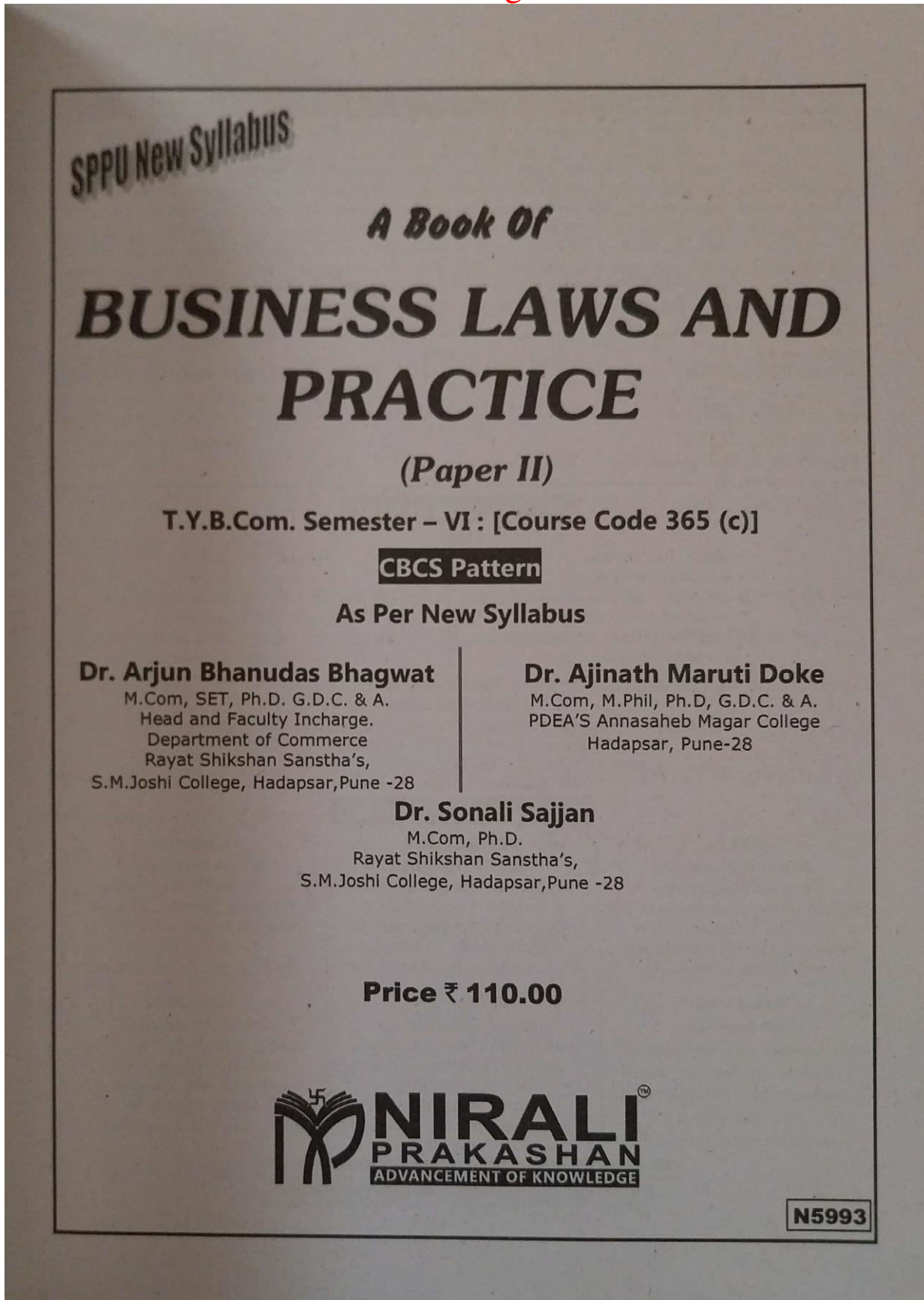
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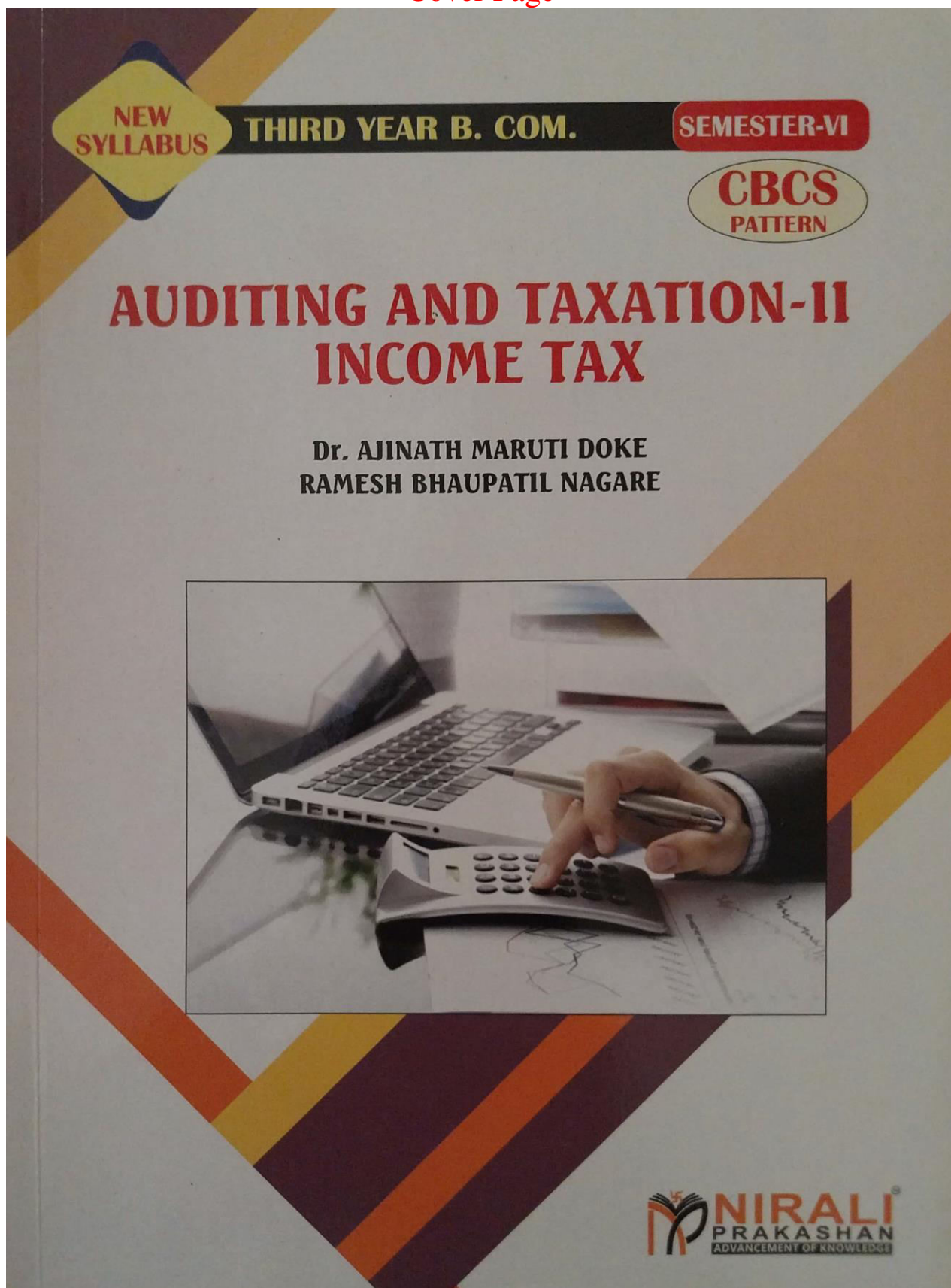
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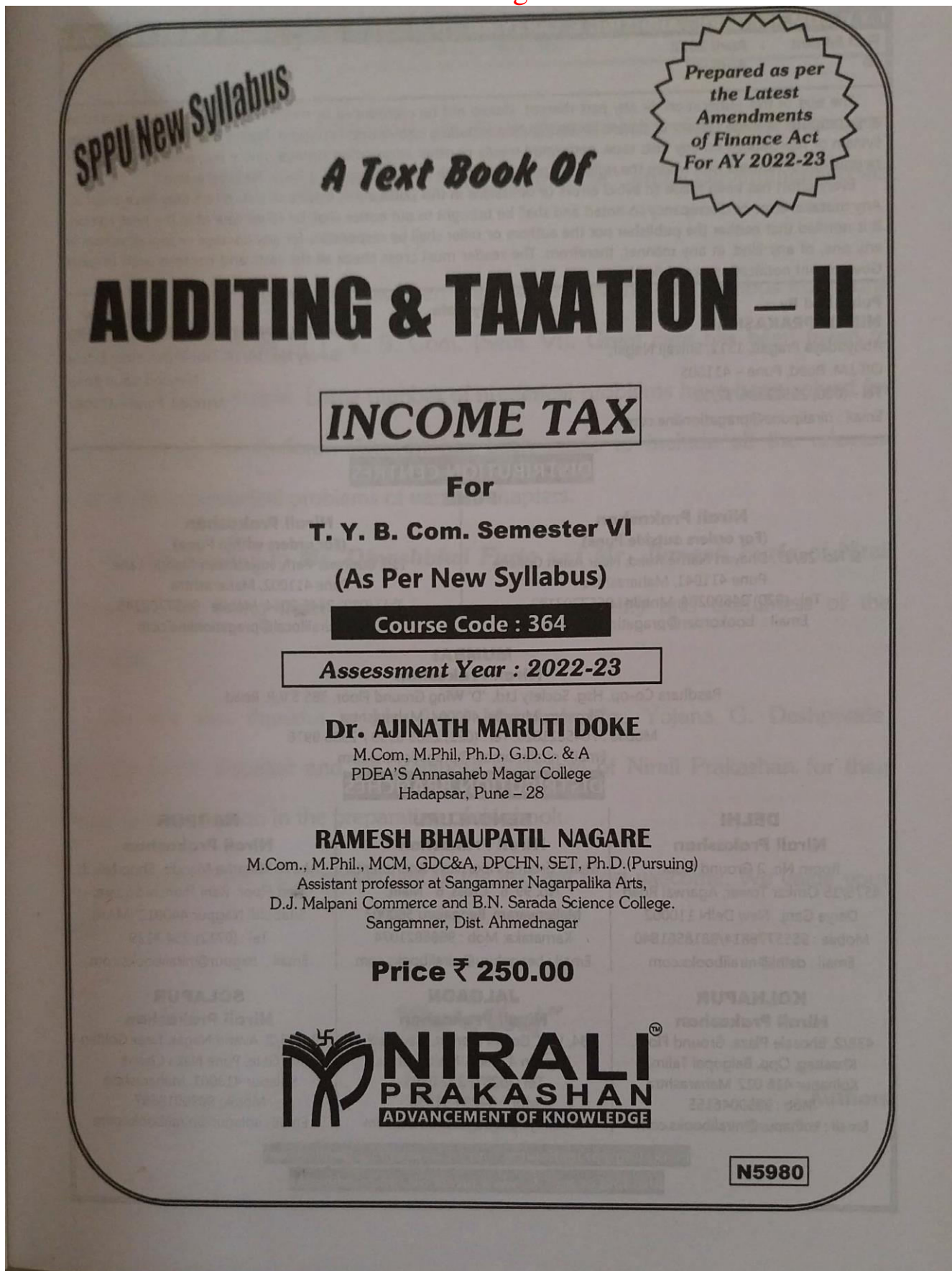
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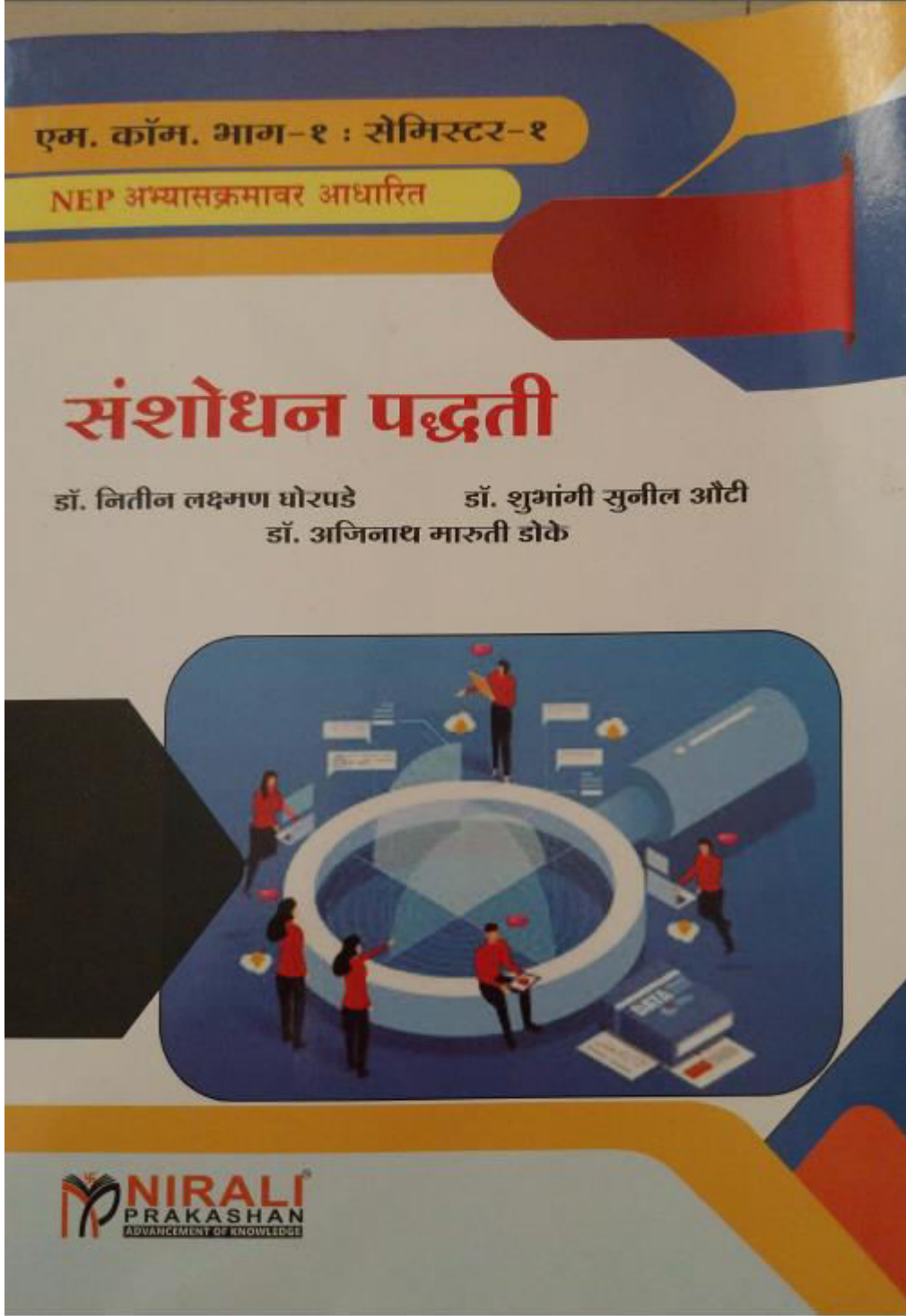
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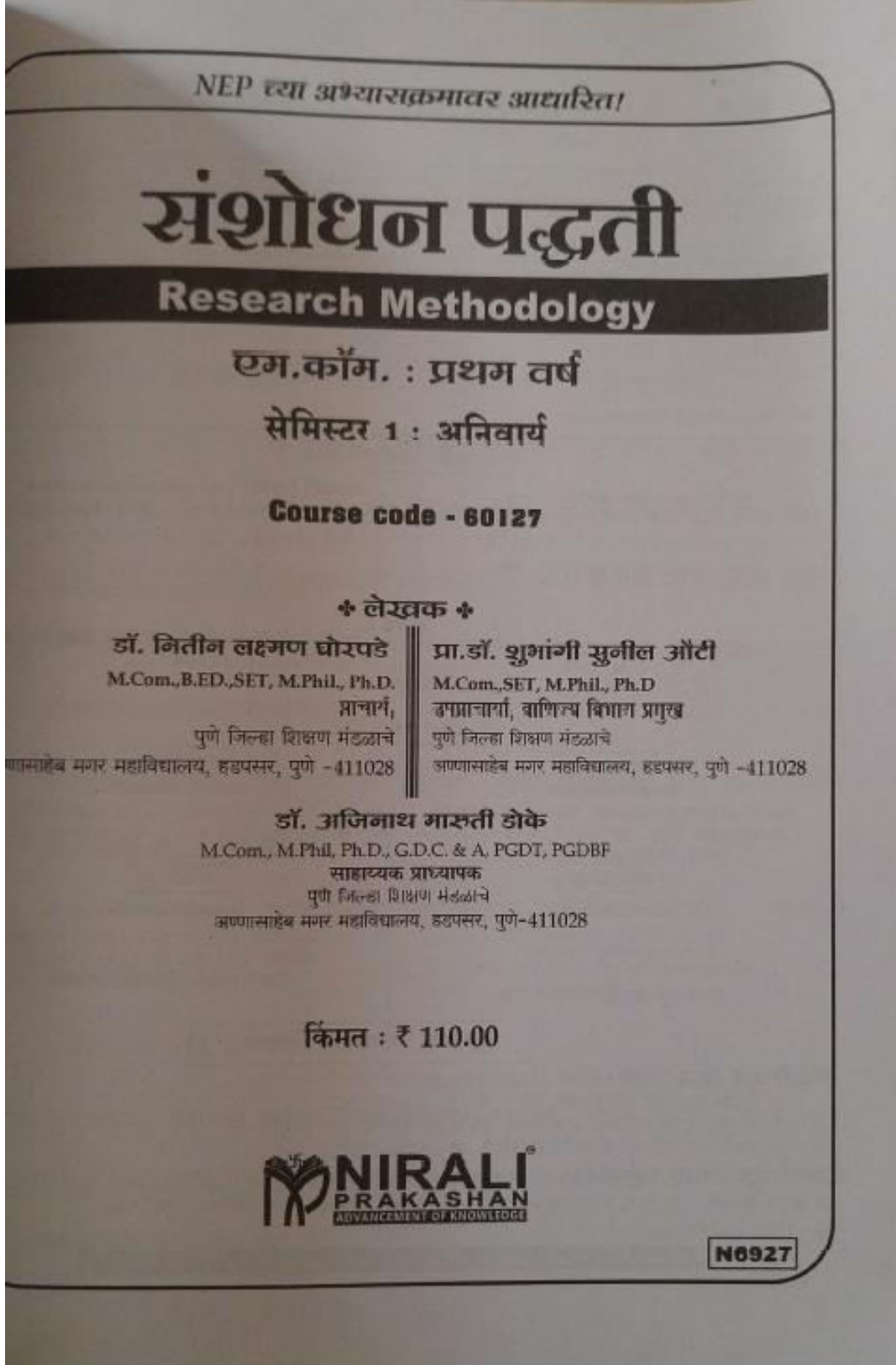




## 4.Title: Sanshodhan Padhati

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# 4.Title: Sanshodhan Padhati

Author: Dr. Doke A. M

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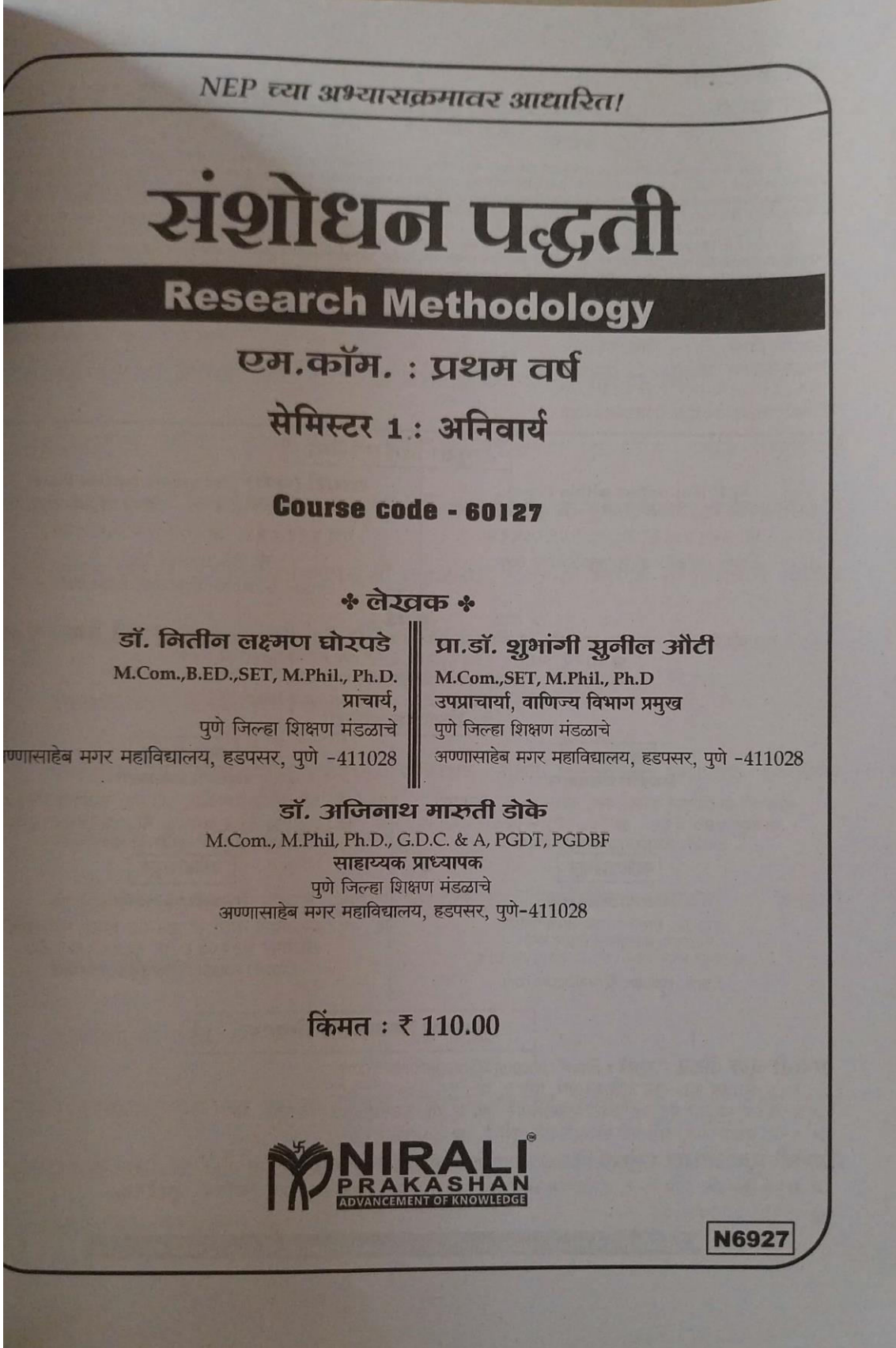
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# 7.Title: Ketkawale Gawatil Bhaysha and Loksahitya Yancha Abhyas

Author: Dr. Sonawale V.S.

Book Chapter

Scientific Approach for Rural Development

ISBN: 978-81-19180-02-8

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डॉ. वंदना सोनवले

मराठी विभाग

**प्रास्ताविक :**

लोकसाहित्य म्हटले की, लोकमानसाचे विविध वाङ्मयीन, सांस्कृतिक, कलात्मक आविष्कार सूचित केले जातात. लोकसाहित्यामध्ये लोकसंस्कृतीच्या जडणघडणीतील शब्द साधने (वाच्याथनि मौखिक वाङ्मय) व शब्देतर साधने (रूढी, चालीरीती, पारंपरिक कला, कारागिरी, विविध प्रकारचे खेळ, ज्योतिष, वैद्यक इ.) या सर्वांचाच समावेश झालेला आहे. ही सर्व साधने लोकसंस्कृतीचा अविभाज्य भाग बनलेली आहेत. लोकसाहित्य या शब्दातील 'लोक' या पूर्वपदाचा अर्थही अनेकदा ग्रामीण, निरक्षर, जुन्या परंपरेतील असा केला जातो. लोकसाहित्य हे त्या त्या ठिकाणच्या बोलीभाषेतील असते. म्हणूनच पुरंदर तालुक्यातील केतकावळे या गावातील लोकसाहित्याचा अभ्यास करत असताना तेथील बोलीभाषेचा अभ्यास केला आहे. बोलीभाषेवरून त्या गावातील लोकसंस्कृती समजते.

**संशोधन अभ्यासाची उद्दिष्टे आणि ध्येय :**

केतकावळे हे गाव शिवकालापासून पुरंदर तालुक्यातील एक अत्यंत महत्त्वाचे गाव आहे. या गावाला ऐतिहासिक व सामाजिक व धार्मिक पार्श्वभूमी लाभली आहे. या गावाच्या एका बाजूला स्वराज्याचे दुसरे छत्रपती श्री संभाजीराजे यांचे जन्मस्थान असलेला पुरंदरसारखा अभेद्य किल्ला उभा आहे. गावातच प्रति बालाजीचे मंदिर आहे. त्यामुळे येथे विविध धर्मांचे व विविध भाषा बोलणारे लोक या ठिकाणाला भेट देत असतात. केतकावळे गावाच्या जवळच चीवेवाडी हे छोटेसे गाव डोंगराच्या कुशीत वसलेले आहे. या गावात आदिवासी यांची लोकवस्ती आढळते. त्यामुळे केतकावळे या गावाच्या बोलीभाषेचा, लोककलांचा, लोकगीतांचा अभ्यास करणे. तसेच केतकावळे गावातील लोकांच्या म्हणी, उखाणे, वाक्यप्रचार यांचे संकलन करणे हे या अभ्यासाची उद्दिष्टे व ध्येय आहे.

**अभ्यासपद्धती :**

लोकसाहित्याचा अभ्यास करत असताना एकच एक अशी अभ्यासपद्धती वापरून चालत नाही. अभ्यासाच्या उद्दिष्टानुसार अभ्यासाच्या पद्धती बदलतात. लोकसाहित्याचा अभ्यास कोणत्याही उपलब्ध पुस्तकांच्या आधारे एका ठिकाणी बसून करता येत नाही तर त्यासाठी प्रत्यक्ष त्या निवडलेल्या क्षेत्रात खेड्यापाड्यात संशोधकाला फिरावे लागते. विश्वासाचे वातावरण निर्माण करावे लागते. तेव्हा मौखिक परंपरेतील अस्सल लोकसाहित्य

# 8.Title: Sanshodhan Padhati

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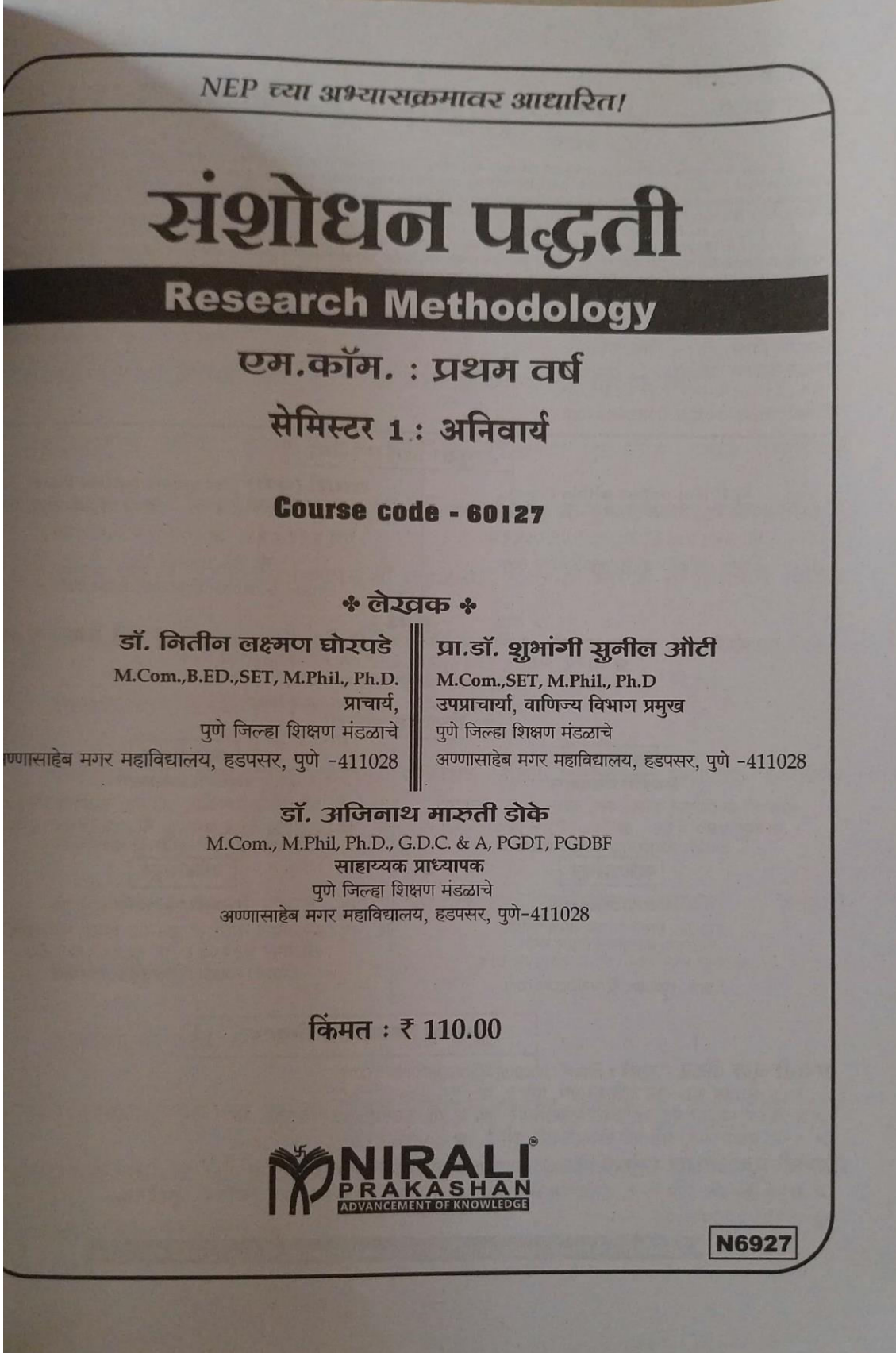
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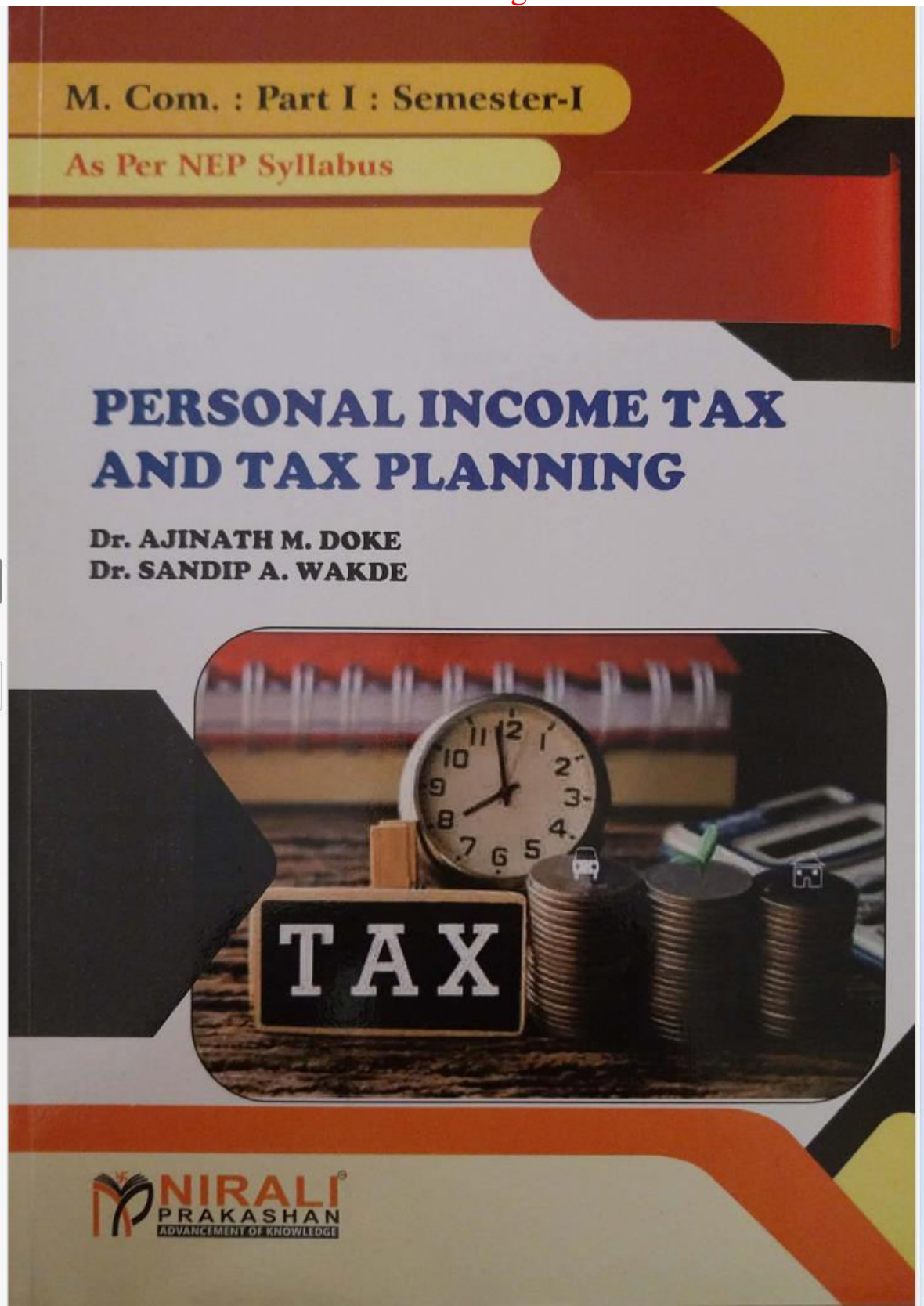
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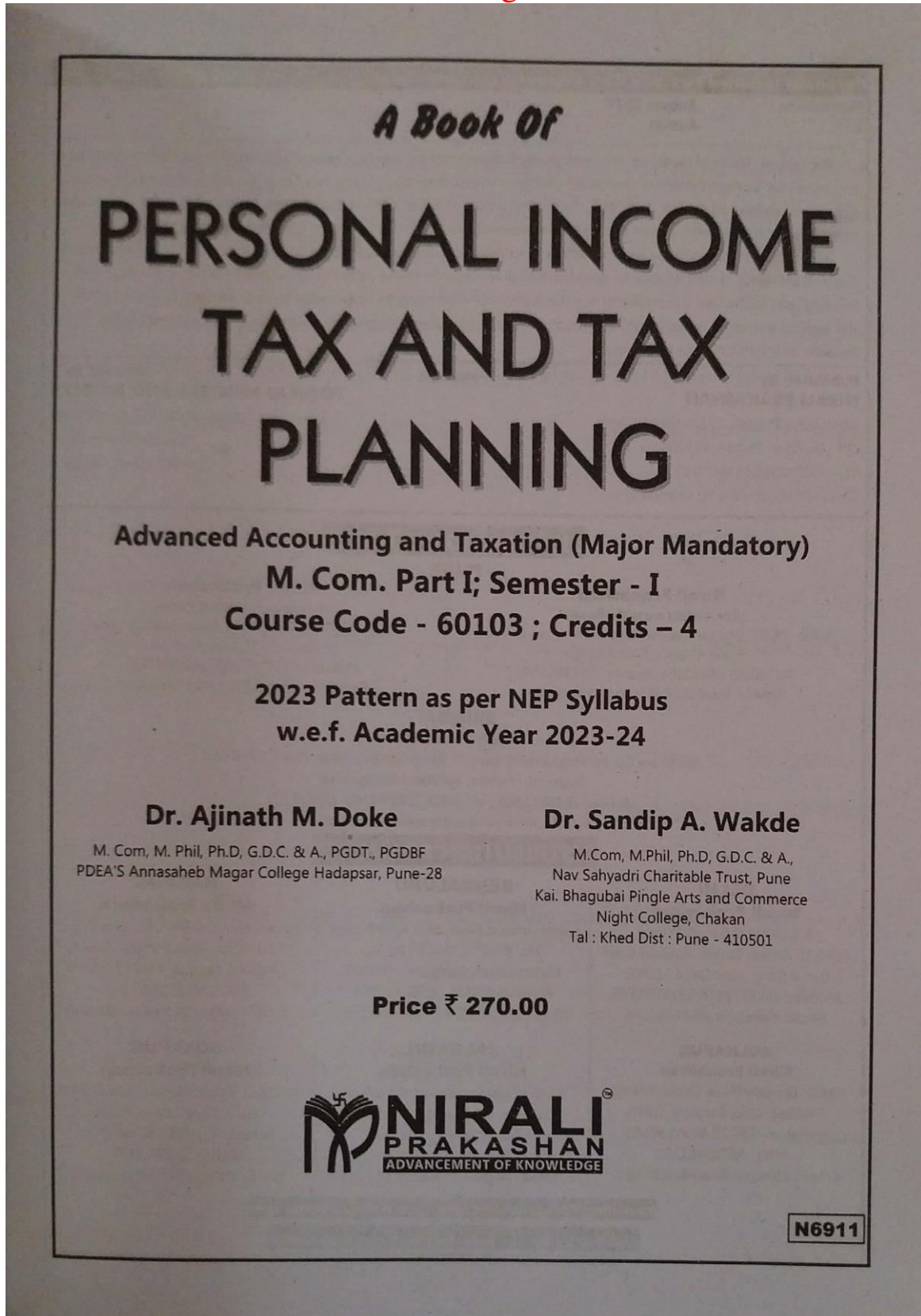




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# 11. Title: Ketkawale Gavatil Hawaman Badlacha Sheti Kshetravar Honyarya Parinamncha Abhyas

Author: Prof. Kharat P. D

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Scientific Approach for Rural Development

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“केतकावळे गावातील हवामान बदलाचा शेती क्षेत्रावर होणाऱ्या परिणामांचा अभ्यास”

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अर्थशास्त्र विभाग

### प्रस्तावना:

जगातल्या अनेक देशासमोर हवामान बदल हे मोठे आव्हान आहे. हवामान बदल आणि हवामानातील विचलन याचा वनस्पती, प्राणी, नैसर्गिक साधनसंपत्ती यावर तसेच मानवी जीवनावर परिणाम होत आहे. प्रदेशानुसार आणि काळानुसार हवामानात बदल होत असतो. वातावरण नेहमी अस्थिर आणि क्षोभ निर्माण करणारे असल्यामुळे हवा आणि हवामानाच्या स्थितीत भिन्नता निर्माण होते आणि हवामान बदल घडून येतो. तापमानात वाढ होणे, ऋतुचक्र बदलणे, त्यामध्ये अनियमितता निर्माण होणे यासंबंधी हवामान बदल ही संकल्पना संबंधीत आहे. जागतिक तापमानवाढ ही हवामान बदलाचा स्पष्ट जाणवणारा परिणाम आहे.

सन १९८० नंतर किमान सहा वेळा उबदार तापमानाची वर्षे अनुभवण्यात आली. जगातील शास्त्रज्ञ आय.पी.सी.सी.च्या माध्यमातून स्पष्ट करतात की, हवामान बदल रोखणे आणि समायोजन दोहोंवर तेवढाच भर दिला तर आपत्तीपासून होणारी हानी कमी करता येईल. हवामान बदलला सामोरे जाण्यासाठी त्याचे एक विशेष छाते असणे गरजेचे आहे. जागतिक हवामान बदल होत आहेत असा पर्यावरणवाद्यांचा कयास होता. इंटरनॅशनल पॅनल क्लायमेट चेंजच्या अहवालाने जगातील १३०० वैज्ञानिकांनी जागतिक हवामान बदलाचा सखोल अभ्यास केला. संयुक्तराष्ट्र संघाशी असणाऱ्या या समितीचा पाचवा अहवाल मार्च २०१४ मध्ये प्रसिद्ध झाला. त्यात त्यांनी जगाला इशारा दिला की, हवामान बदलाचा धोका जगातील सर्वांना सारखाच आहे. तेव्हा हवामान बदलाचे धोके लक्षात घेऊन त्यांच्याशी जुळवून घेत शेतीचे नियोजन व समायोजन करणे गरजेचे आहे.

भारतीय अर्थव्यवस्था कृषिप्रधान असून शेती हा भारतीय अर्थव्यवस्थेचा कणा आहे. पर्जन्यवृष्टीच्या बदलेल्या स्वरूपाचा परिणाम भारतीय शेती क्षेत्रावर पाहायला मिळतो. कारण भारतीय शेती क्षेत्र हे त्या त्या भागातील हवामानाच्या स्थितीवर आधारित आहे. हवा म्हणजे कोणत्याही एका विशिष्ट ठिकाणची विशिष्ट वेळेची हवामानाची स्थिती होय. पावसाळा काही वर्षी खूपच अधिक तर काही वर्षी खूपच कमी अथवा कोरडा झाल्याने पिकांच्या वाढीवर परिणाम झाला आहे. बदलत्या हवामानाचा परिणाम म्हणजे पर्जन्याची तीव्रता वाढली व त्यामुळे पावसाचे दिवस कमी झाले. हवामान बदलाचा परिणाम पावसाळ्यात दुष्काळ किंवा अतिवृष्टी आणि महापूर, हिवाळ्यात ढगाळ हवामान आणि अवकाळी पाऊस तर उन्हाळ्यात गारपीट होते. त्याचा परिमाण त्या त्या हंगामातील पिके आणि पीक पद्धतीवर होतो. भारतासारख्या कृषिप्रधान देशात तर हवामानशास्त्र व शेती यांचा घनिष्ट संबंध आहे. पिकांची पेरणी, मशागत, मळणी यासाठी हवामानाच्या ज्ञानाची नितांत आवश्यकता असते. कोणत्या हंगामात कोणती पिके घ्यावी, गारपीट, धुके, आवर्षण, अतिवर्षण अशा

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# 12. Title: Changing Agricultural Practices in Ketkawale

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Scientific Approach for Rural Development

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### CHANGING AGRICULTURAL PRACTICES IN KETKAWALE

#### PURANDAR TEHSIL, MAHARASHTRA

Dr. Savita Kulkarni

Prof. Shital Gaikwad

Department of Geography

#### Introduction :

India is known for its agricultural economy and it plays a crucial role in Indian economy which provides employment opportunities to rural agricultural and non-agricultural labourers. The majority of the country's population depends on agriculture for their livelihood.

The Indian Economy holds the sixth position in the world's top economies. Agriculture has major contribution to the country's GDP. It provides employment and it is largest employee sector. Agriculture is the source of food and it is source for raw material for industry. Agro-products such as tea, coffee, sugar, cashew nuts, spices, etc., which are edible and textile products such as jute, cotton, and others contribute 50% and 20% respectively to the total export of the total country. Agriculture is the most significant source of income for the central and state governments. It is clear that agricultural growth is a necessary precondition for sectoral diversity and economic development.

Although agriculture is major contributor in Indian economy still it faces many challenges. Dependency on rainfall, land ownership, fragmentation of holding, land tenure, labours, manures, fertilizers and biocides, meagre irrigation facilities, lack of mechanisation, agricultural marketing, transport facilities, decreasing production are the challenges faced by Indian agriculture. In which agriculture production mainly affects due to agricultural practices

With the aim of study of agriculture in ketkawale Village in Purandar we have taken two major effects on production are agricultural practices with special reference to soil analysis. Following aims and objectives for the study are taken into consideration. The article provided assessment of agricultural practices in ketkawale Village.

#### Study Area:

A Study area is ketkawale Village in a Purandhar Tehsil heaters. Administratively

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# 13. Title: Solid Waste Management & Pollution Analysis from Ketkawale Village Maharashtra India

Author: Prof. Kamshetty A. O.

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Author: Prof. Kamshetty A. O.

## Book Chapter

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Scientific Approach for Rural Development

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### SOLID WASTE MANAGEMENT AND POLLUTION ANALYSIS FROM KETKAWALE VILLAGE, MAHARASHTRA, INDIA.

Prof. Kamshetty A. O., Prof. Deshpande M. V., Prof. Khisti U. V  
Department of Environmental Science

---

#### Abstract:

Ketkawale village is situated in Purandar Taluka in Pune district Maharashtra state, India. The total geographical area of village is 483 hectares. Population of the village is around 1250 peoples, out of which 627 are male and 623 are females. There is famous Balaji Temple 1Km away from village Hence the Tourist mostly attracted to visit. the present study investigated about the Solid waste management and pollution of the Ketkawale village by using questionnaires.

**Keywords:** Ketkawale, solid waste management, pollution.

#### • Introduction:

Ketkawale is a village which is located in Purandar tehsil of Pune district in Maharashtra, India. It is situated near sub district headquarter Saswad about 12 Km away. The Total geographical area of village is 483 hectares. Saswad is the nearest town to Ketkawale for all major economic activities. Population of the village is around 1250 peoples, out of which 627 are male and 623 are females. There are about 275 houses in village. The major Occupation of the village is agriculture, and Animal husbandry. The wastes generated in Agricultural field and domestically are managed by village itself.

#### • Aims and Objectives of the study:

- Analysis of solid waste management by questionnaires.
- Floral waste decomposition ideas .
- Pollution survey by questionnaires.
- To Create awareness among people about waste management.
- To implement new ideas of waste management such as making fertilizers from waste, and preparing natural colour from floral waste etc.
- To aware public about their local areas pollution.

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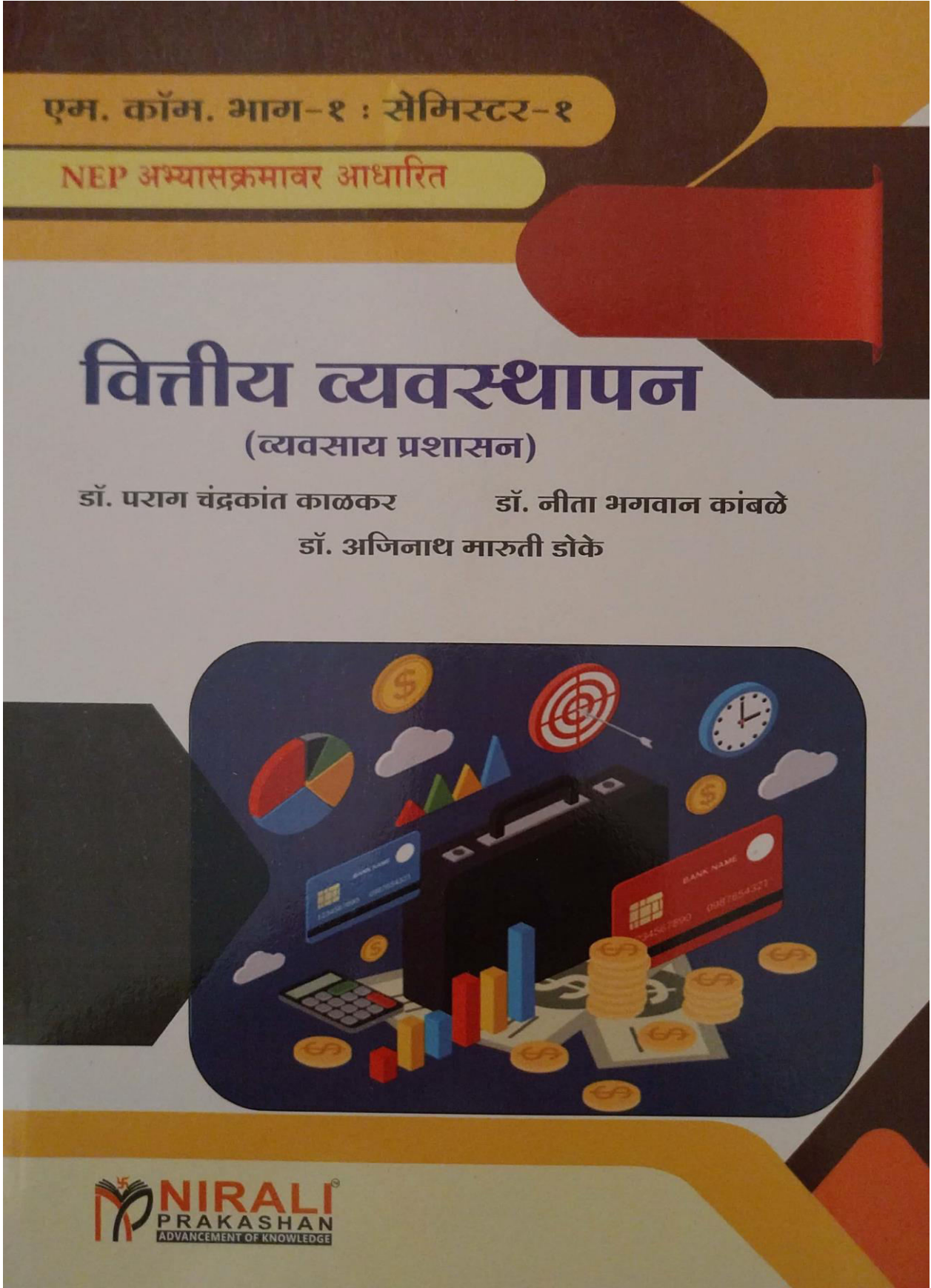
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Scientific Approach for Rural Development

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CHANGING AGRICULTURAL PRACTICES IN KETKAWALE

PURANDAR TEHSIL, MAHARASHTRA

Dr. Savita Kulkarni

Prof. Sitlal Gaikwad

Department of Geography

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## Introduction :

India is known for its agricultural economy and it plays a crucial role in Indian economy which provides employment opportunities to rural agricultural and non-agricultural labourers. The majority of the country's population depends on agriculture for their livelihood.

The Indian Economy holds the sixth position in the world's top economies. Agriculture has major contribution to the country's GDP. It provides employment and it is largest employee sector. Agriculture is the source of food and it is source for raw material for industry. Agro-products such as tea, coffee, sugar, cashew nuts, spices, etc., which are edible and textile products such as jute, cotton, and others contribute 50% and 20% respectively to the total export of the total country. Agriculture is the most significant source of income for the central and state governments, it is clear that agricultural growth is a necessary precondition for sectoral diversity and economic development.

Although agriculture is major contributor in Indian economy still it faces many challenges. Dependency on rainfall, land ownership, fragmentation of holding, land tenure, labours, manures, fertilizers and biocides, meagre irrigation facilities, lack of mechanisation, agricultural marketing, transport facilities, decreasing production are the challenges faced by Indian agriculture. In which agriculture production mainly affects due to agricultural practices

With the aim of study of agriculture in ketkawale Village in Purandar we have taken two major effects on production are agricultural practices with special reference to soil analysis. Following aims and objectives for the study are taken into consideration. The article provided assessment of agricultural practices in ketkawale Village.

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# 18.Title: Vityiya Vyavstapan

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Author: Dr. Kulkarni S. S.

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National Seminar Proceedings

Department of National Service Scheme

## ROLE OF NSS IN NATIONAL EDUCATION POLICY

**Dr. Savita Kulkarni,**

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The world is on the verge of changes in all perspectives especially knowledge. With the new advance studies such as big data, machine learning, artificial intelligence, skilled workforce is need for the hour. Workforce having knowledge of sciences and multidisciplinary abilities are in greater demand. With the epidemics and pandemics there is call for collaborative research. For this changes in education pattern are needed. These demands will be fulfilled with the adoption of National Education policy.

Higher education has important role in education as well as social wellbeing and development. Higher education has its role in developing in a democratic, socially conscious, cultured human being. It also contributes in the sustainable livelihood and economic development.

The National Service Scheme (NSS) is integral part of higher education. It is a Central Sector Scheme of Government of India, Ministry of Youth Affairs & Sports. It provides opportunity to the student youth of 11th & 12th Class of schools at +2 Board level and student youth of Technical Institution, Graduate & Post Graduate at colleges and University level of India to take part in various government led community service activities & programmes. The sole aim of the NSS is to provide hands on experience to young students in delivering community service.

National Service Scheme is a noble experiment in academic expansion developed on the idea of Mahatma Gandhi, the father of the nation. NSS helps in developing the personality of student and programme officer also. It helps to improve the administrative as well as managerial skill of programme officer. NSS helps to develop the leadership, discipline, loyalty, dignity of labour among the volunteers. Three dimensions of higher education teaching, research and extension are very well fulfilled through the NSS activities. To fulfill the objectives of higher education NSS has significant role.

National Service Scheme aims to understand the

community in which student work and understand themselves in relation to their community. Student should identify the needs and problems of the community and involve them in problem-solving. Another objective of NSS is to develop among themselves a sense of social and civic responsibility. The scheme is designed for the development of competence required for group-living and sharing of responsibilities, development of skills and capacity in mobilising community participation. It also includes the aim of acquiring leadership qualities and develops intellectually, morally, socially. Through the programs special camp and regular activities it has designed the variety of activities. Students get attached with the rural areas, know their problem and try to know the solutions for the region through the special camp. Environmental, social, health awareness programs are organized through regular activities.

National service scheme can work in various goals and objectives. Research activities can be promoted through the NSS because it comprises aspects related personality development, rural development, resources available in the village. Pre and post testing in every aspect give new idea for the research. As one of the objectives of higher education NSS seek and cultivate new knowledge through the survey, knowledgeable lectures arranged in the camp as well as in the college. It helps the student to interpret old knowledge and beliefs in the light of new needs and discoveries. Leadership qualities are developed through the different competitions. Management and organization skills are developed through the group activities. It helps them to develop the powers of the mind and cultivating right interests, attitudes and moral and intellectual values. It provides competent men and women trained in various professions, with a sense of social purpose, and strive to promote equality and social justice.

Towards the attainment of such a holistic and multidisciplinary education, the flexible and innovative curricula of all HEIs have to include credit-based

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## 20. Title: Socio Economic Survey of Village Ketkawale

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# 20. Title: Socio Economic Survey of Village Ketkawale

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Book chapter

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## SOCIO AND ECONOMIC STATUS OF VILLAGE KETKAWALE

Dr. Ganes'h Gandhile    Prof. Shital Gaikwad

Department of Geography

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A socioeconomic survey is an important tool for gathering comprehensive information about a location's social and economic situation. This information aids in visualizing the location's circumstance. After assessing the data, policy framework may be created, and comprehending the problem with the public is critical for policymaking.

The process of increasing the quality of life and economic well-being of people living in rural areas is known as rural development. Traditionally, it has been focused on the extraction of land-intensive natural resources like agriculture and forestry. It is a broad phrase that refers to actions taken to promote the development of areas outside of the mainstream metropolitan economic system.

### **Aims and Objectives of the village survey-**

- 1) To understand the socio and economic condition of the village.
- 2) To study the land use and land cover pattern of the village.
- 3) To know the available energy resources in the village.

### **Methodology-**

To achieve the above goals, relevant research from the villages is required. A socio-economic survey was done in village Ketkawale the Geography Department in order to better understand the village's socioeconomic characteristics, land use and land cover patterns, livestock breeding, settlement morphology, and living conditions. A household survey was conducted, and primary data was obtained from 236 houses. GPS positions were used to record the locations of 36 houses. Photographs and GPS surveys were carried out. Questionnaires are used to collect information about governmental issues, demography, lifestyle, and occupation. Articles, journals, and other papers are used to gather secondary data.

### **Study area-**

Ketkawale is a village in the Purandar Taluka of Maharashtra's Pune District. The total physical area of village is 486 hectares. Ketkawale has a total population of 1,250 peoples, out of which male population is 627 while female population is 623. Literacy

# 21.Title: The Study of Impact of Rural Culture Environment & Opportunity in 10th Class Students Career Preferences at Ketkawale Village Ta Purandar Dist Pune

Author: Prof. Deokar S.

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**STUDENT'S CAREER PREFERENCES AT KETKAWALE**  
**VILLAGE, TAL. PURANDAR, DIST. PUNE.**

Prof. Sangita M. Deokar  
Department of Psychology

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**Introduction:-**

Career selection is one of many important choices students will make in determining future plans. This decision will impact them throughout their lives. The essence of who the student is will revolve around what the student wants to do with their life-long work. Every student carries the unique history of their past and this determines how they view the world. That history created, in part by the student's environment, personality, and opportunity, will determine how students make career choices. It then follows that how the student perceives their environment, personality, and opportunity also will determine the career choices students make.

The first factor in career choice, environment may influence the students career choose. For example, students who have lived on an island may choose a career dealing with the water, or they may choose to leave the island behind, never to have anything to do with water again. Maybe someone in the student's life has made a significant impact or impression, leading to a definite career choice. Parents' educational background may influence student views on whether or not to continue their education. These are various environmental factors that would lead a student to a chosen career. How students have seen themselves in a role in which personality is a determining factor may influence a chosen career. Some careers demand that you have the personality to match the qualities of the occupation. For example, sales people have to be outgoing.

Opportunity is the third factor that has shaped career choices for students. Opportunity may influence how students have perceived their future in terms of the reasonable probability of a future in particular career fields. The issue of poverty has played an important determining role in the opportunities available to all. The income level of high school families may determine what career a student chooses during a specific

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**22.Title: Ketakawale Gavatil Mahilancha Rajakiy**

**Prakriyetil Sahabhag**

**Author: Prof. Gaikwad S. S**

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## 22. Title: Ketakawale Gavatil Mahilancha Rajakiy Prakriyetil Sahabhag

Author: Prof. Gaikwad S. S

Book chapter

## “केतकावळे गावातील महिलांचा राजकीय प्रक्रियेतील सहभाग”

प्रा. गायकवाड शीतल सदाशिव

राज्यशास्त्र विभाग

आजच्या आधुनिक जगात लोकशाही ही सर्वात लोकप्रिय शासनपद्धती म्हणून ओळखली जाते. भारताची ओळखही जगातील एक मोठा लोकशाही देश म्हणूनच करून दिली जाते. लोकशाहीची भारतातील प्रक्रिया जरी ब्रिटिशांच्या काळातच सुरू झालेली असली तरी तिचा खऱ्या अर्थाने प्रारंभ १९४७ नंतरच झाला. राजकीयदृष्ट्या लोकशाहीधारक बनल्यानंतर भारताची सामाजिक आणि आर्थिक लोकशाहीच्या दिशेने वाटचाल सुरू झाली.

राजकीय लोकशाही स्थापनेचा महत्वाचा निकष म्हणजे निवडणुकीच्या प्रक्रियेत (प्रतिनिधित्व आणि मतदान) सहभागी होण्याचा सर्वांना समान हक्क (कोणत्याही भेदभावाशिवाय) देणे होय. राजकीय सहभागाची सर्वांना समान संधी उपलब्ध करून देणे होय. सामाजिक आणि आर्थिक लोकशाही म्हणजे या राजकीय हक्कांचा वापर करता येईल अशी सामाजिक आणि आर्थिक परिस्थिती निर्माण करणे होय. आपण राजकीय लोकशाही स्वीकारली आहे पण राजकीय लोकशाही टिकवण्यास हातभार लावणाऱ्या सामाजिक आणि आर्थिक लोकशाही निर्मितीत यशस्वी ठरलो आहोत का हे पाहणे ही अत्यावश्यक ठरते. लोकशाहीचे यश आणि अपयश तपासण्यासाठी लोकशाहीच्या राजकीय, आर्थिक, सामाजिक आयामांचा अभ्यास करणेही आवश्यक ठरते.

या संशोधन लेखात याच सामाजिक लोकशाहीच्या अनुषंगाने पुणे जिल्ह्यातील पुरंदर तालुक्यातील 'केतकावळे गावातील महिलांचा राजकीय प्रक्रियेतील सहभाग' या विषयावर संशोधन करण्याचा प्रयत्न केला आहे. यात गावातील स्थानिक राजकारण, प्रादेशिक, देशीय राजकारण, निवडणूक प्रक्रियेत महिलांच्या सहभागाचे प्रमाण कसे आहे, महिला सहभागास आवश्यक पोषक परिस्थिती उपलब्ध आहे का ? ती असल्यास किंवा नसल्यास त्या मागे कोणती कारण आहेत, हे शोधण्याचा प्रयत्न प्रस्तुत अभ्यासात केला गेला आहे. या संशोधनासाठी सामाजिक सर्वेक्षण, वर्णनात्मक आणि गुणात्मक, तुलनात्मक आणि विश्लेषणात्मक संशोधन पद्धतींचा अवलंब करण्यात आला आहे. हे संशोधन स्त्रीवादी परिप्रेक्ष्यातून करण्याचा प्रयत्न केले आहे. संशोधनाचा प्रमुख हेतू केतकावळे गावातील राजकीय प्रक्रियेतील महिलांच्या सहभागाचा चिकित्सक अभ्यास हा होता. माहितीचे संकलन करण्यासाठी प्राथमिक स्रोत (निरीक्षण, मुलाखत, प्रश्नावली) व दुय्यम स्रोत (विविध शासकीय निर्णय, वृत्तपत्रीय लेख, स्त्री प्रश्न हाताळणारी मासिके, पुस्तके) यांचा वापर केला आहे.

लोकशाही संकल्पनेच्या दिवसोदिवस होत असलेल्या विस्तारामागे लोक या संकल्पनेचा झालेला विकास

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**Book chapter**

## राष्ट्रीय सेवा योजना विशेष शिबीर

दि. १ जानेवारी ते ७ जानेवारी २०२३

डा. नितीन घोरपडे प्राचार्य,

व्यवस्थापन परिषद सदस्य सावित्रीबाई फुले पुणे विद्यापीठ

### उद्घाटन समारंभ :

पुणे जिल्हा शिक्षण मंडळाच्या अण्णासाहेब मगर महाविद्यालयाच्या राष्ट्रीय सेवा योजनेचे विशेष शिबीर मु. पो केतकावळे, ता. पुरंदर जि. पुणे या ठिकाणी दि. १ जानेवारी ते ७ जानेवारी २०२३ या कालावधीत आयोजित करण्यात आले होते. या शिबीराचा उद्घाटन समारंभ दि. १ जानेवारी २०२३ रोजी आयोजित करण्यात आला. या उद्घाटन समारंभासाठी पुणे जिल्हा शिक्षण मंडळाचे उपसचिव मा. श्री. एल. एम. पवार, महाविद्यालयाचे प्राचार्य डॉ. नितीन घोरपडे, सरपंच श्री. मारुती भडाळे, कार्यक्रम अधिकारी डॉ. सविता कुलकर्णी, प्रा. नितीन लगड, डॉ. अंजू मुंदे, प्रा. गौरव शेलार उपस्थित होते.

कार्यक्रमाची सुरुवात उद्घाटनाने झाली. श्रमदानाच्या साहित्याच्या पूजनाने शिबीराचे उद्घाटन करण्यात आले. कार्यक्रमाचे प्रास्ताविक करताना डॉ. सविता कुलकर्णी यांनी राष्ट्रीय सेवा योजनेची माहिती सांगून विशेष शिबीरामध्ये विविध उपक्रम आयोजित केल्याचे सांगितले.

सरपंच श्री. मारुती भडाळे यांनी शिबीरातील सर्व विद्यार्थी आणि शिक्षक यांचे स्वागत केले. शिबीरातील आयोजित उपक्रमांचे त्यांनी कौतुक केले आणि या सर्वाला गावचे सहकार्य लाभेल असे त्यांनी सांगितले. महाविद्यालयाचे प्राचार्य डॉ. नितीन घोरपडे यांनी विद्यार्थ्यांशी संवाद साधताना अशा शिबीरामध्ये सहभागी झाल्याने विद्यार्थ्यांचा आत्मविश्वास वाढतो, विविध प्रकारच्या संधी प्राप्त होतात आणि नवनवीन गोष्टी शिकायला मिळतात त्यामुळे विद्यार्थ्यांनी अशा शिबीरामध्ये सहभागी व्हावे असे सांगितले.

कार्यक्रमाचे अध्यक्ष मा. श्री. एल. एम. पवार यांनी विद्यार्थ्यांचे कौतुक केले. आणि शिबीरात सहभागी होणारे विद्यार्थी वेगळे असून या निमित्ताने अनेक गोष्टी शिकायला मिळतात आणि ते अनुभवाने समृद्ध होतात. विविध अनुभव सांगून त्यांनी अशा उपक्रमांचे विद्यार्थ्यांच्या आयुष्यातील महत्त्व सांगितले आणि सर्वांना या शिबीरासाठी शुभेच्छा दिल्या. कार्यक्रमाचे सूत्रसंचालन प्रा. नितीन लगड यांनी तर आभारप्रदर्शन प्रा. गौरव शेलार यांनी मानले.

### सर्वेक्षण :

महाविद्यालयातील शिक्षकांच्या मार्गदर्शनाखाली माती, प्राणी, पाणी, वनस्पती, पर्यावरण, पर्यटन, शेती यांचा तसेच आर्थिक, सामाजिक, भौगोलिक सर्वेक्षण करण्यात आले. समाजशास्त्र, संस्कृतीशास्त्र, तिष्याच्या

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**Book chapter**

## “केतकावळे गावातील महिलांचा राजकीय प्रक्रियेतील सहभाग”

प्रा. गायकवाड शीतल सदाशिव

राज्यशास्त्र विभाग

आजच्या आधुनिक जगात लोकशाही ही सर्वात लोकप्रिय शासनपद्धती म्हणून ओळखली जाते. भारताची ओळखही जगातील एक मोठा लोकशाही देश म्हणूनच करून दिली जाते. लोकशाहीची भारतातील प्रक्रिया जरी ब्रिटिशांच्या काळातच सुरु झालेली असली तरी तिचा खऱ्या अर्थाने प्रारंभ १९४७ नंतरच झाला. राजकीयदृष्ट्या लोकशाहीधारक बनल्यानंतर भारताची सामाजिक आणि आर्थिक लोकशाहीच्या दिशेने वाटचाल सुरु झाली.

राजकीय लोकशाही स्थापनेचा महत्वाचा निकष म्हणजे निवडणुकीच्या प्रक्रियेत (प्रतिनिधित्व आणि मतदान) सहभागी होण्याचा सर्वांना समान हक्क (कोणत्याही भेदभावाशिवाय) देणे होय. राजकीय सहभागाची सर्वांना समान संधी उपलब्ध करून देणे होय. सामाजिक आणि आर्थिक लोकशाही म्हणजे या राजकीय हक्कांचा वापर करता येईल अशी सामाजिक आणि आर्थिक परिस्थिती निर्माण करणे होय. आपण राजकीय लोकशाही स्वीकारली आहे पण राजकीय लोकशाही टिकवण्यास हातभार लावणाऱ्या सामाजिक आणि आर्थिक लोकशाही निर्मितीत यशस्वी ठरलो आहोत का हे पाहणे ही अत्यावश्यक ठरते. लोकशाहीचे यश आणि अपयश तपासण्यासाठी लोकशाहीच्या राजकीय, आर्थिक, सामाजिक आयामांचा अभ्यास करणेही आवश्यक ठरते.

या संशोधन लेखात याच सामाजिक लोकशाहीच्या अनुषंगाने पुणे जिल्ह्यातील पुरंदर तालुक्यातील ‘केतकावळे गावातील महिलांचा राजकीय प्रक्रियेतील सहभाग’ या विषयावर संशोधन करण्याचा प्रयत्न केला आहे. यात गावातील स्थानिक राजकारण, प्रादेशिक, देशीय राजकारण, निवडणूक प्रक्रियेत महिलांच्या सहभागाचे प्रमाण कसे आहे, महिला सहभागास आवश्यक पोषक परिस्थिती उपलब्ध आहे का ? ती असल्यास किंवा नसल्यास त्या मागे कोणती कारण आहेत, हे शोधण्याचा प्रयत्न प्रस्तुत अभ्यासात केला गेला आहे. या संशोधनासाठी सामाजिक सर्वेक्षण, वर्णनात्मक आणि गुणात्मक, तुलनात्मक आणि विश्लेषणात्मक संशोधन पद्धतींचा अवलंब करण्यात आला आहे. हे संशोधन स्त्रीवादी परिप्रेक्ष्यातून करण्याचा प्रयत्न केले आहे. संशोधनाचा प्रमुख हेतू केतकावळे गावातील राजकीय प्रक्रियेतील महिलांच्या सहभागाचा चिकित्सक अभ्यास हा होता. माहितीचे संकलन करण्यासाठी प्राथमिक स्रोत (निरीक्षण, मुलाखत, प्रश्नावली) व दुय्यम स्रोत (विविध शासकीय निर्णय, वृत्तपत्रीय लेख, स्त्री प्रश्न हाताळणारी मासिके, पुस्तके) यांचा वापर केला आहे.

लोकशाही संकल्पनेच्या दिवसोदिवस होत असलेल्या विस्तारामागे लोक या संकल्पनेचा झालेला विकास

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वाणिज्य विभाग

**संशोधन परिचय :**

केतकवळे हे भारतातील महाराष्ट्र राज्यातील पुणे जिल्ह्यातील पुरंदर तालुक्यातील एक गाव आहे. हे उपजिल्हामुख्यालय सासवडपासून १२ किमी अंतरावर आहे. केतकवळे हे महाराष्ट्रातील पुणे जिल्ह्यातील पुरंदर तालुक्यातील एक मध्यम आकाराचे गाव असून येथे एकूण २७५ कुटुंबे राहतात. केतकवळे गावाची लोकसंख्या १२५० असून २०११ च्या जनगणने नुसार ६२७ पुरुषतर ६२३ स्त्रिया आहेत. महाराष्ट्राच्या तुलनेत केतकावळे गावात साक्षरतेचे प्रमाण कमी आहे. २०११ मध्ये केतकवळे गावचा साक्षरतेचा दर ८१.८८% होता, तर महाराष्ट्राचा साक्षरतादर ८२.३४% होता. केतकावळे येथे पुरुष साक्षरता ९०.४८% तर स्त्री साक्षरता ७३.४८% आहे.

**संशोधन विधान:**

केतकवळे गावाचा शेतीपूरक व्यवसायाचा आर्थिक आणि सामाजिक प्रगतीचा अभ्यास.

**संशोधनाची उद्दिष्टे :**

- केतकवळे गावातील शेतीपूरक व्यवसायाची माहिती अभ्यास करणे.
- केतकवळे गावातील गाव कऱ्यांच्या आर्थिक परिस्थितीचा अभ्यास करणे.
- केतकवळे गावातील गाव कऱ्यांच्या सामाजिक प्रगतीचा अभ्यास करणे.

**गृहीतके:**

- कृषी पूरक व्यवसायामुळे शेतकऱ्यांच्या आर्थिक परिस्थितीमध्ये सुधारणा होते.
- कृषी पूरक व्यवसायासाठी शासन करीत असलेल्या मदतीचा सर्व शेतकऱ्यांना लाभ मिळत नाही.

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## SURVEY ON ENERGY SOURCES AND THEIR CONSUMPTION USED BY CITIZENS AT KETKA VALE VILLAGE

Prof. Khare T. P., Prof. Shah S. S., Prof. Mene R. U., Prof. Joshi R. P.

Department of Physics

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### Introduction:

Energy is the most basic material demand for the existence and development of human being. The classical description of energy is the ability to perform work, but as energy exists in so many forms, it is hard to find one comprehensive definition. In the case of the developing countries, the energy sector assumes a critical importance in view of the ever increasing energy needs requiring huge investments to meet them. There are numerous sources of energy. Energy can be classified into several types based on the following criteria:

- Primary and Secondary energy
- Commercial and Non-commercial energy
- Renewable and Non-Renewable energy

### Primary and Secondary energy:

Primary energy sources are those that are either found or stored in nature. Common primary energy sources are coal, oil, natural gas, and biomass (such as wood). Other primary energy sources available include nuclear energy from radioactive substances, thermal energy stored in earth's interior, and potential energy due to earth's gravity. Primary energy sources are mostly converted in industrial utilities into secondary energy sources; for example coal, oil or gas converted into steam and electricity. Primary energy can also be used directly. Some energy sources have non-energy uses, for example coal or natural gas can be used as a feedstock in fertilizer plants.

### Commercial Energy and Non Commercial Energy:

The energy sources that are available in the market for a definite price are known as

commercial energy. But for the most important forms of commercial energy are

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**SURVEY ON ENERGY SOURCES AND THEIR CONSUMPTION  
USED BY CITIZENS AT KETKAVALI VILLAGE**

Prof. Khare T. P., Prof. Shah S. S., Prof. Mene R. U., Prof. Joshi R. P.

Department of Physics

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**34. Title: Plant Survey at Ketkawale Village Tq. Purandar  
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**Author: Prof. Jagtap. B. D.**

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**34. Title: Plant Survey at Ketkawale Village Tq. Purandar  
Dist. Pune**

Author: Prof. Jagtap. B. D.

Book chapter

**PLANT SURVEY AT KETKAWALE VILLAGE, TAL. PURANDAR,  
DIST. PUNE**

**Ms. Jagtap Bhavana D. Prof. Dr. Danai-Tambhale S. D. Prof. Dr. Ranadive K. R.**

Department of Botany

**Abstract:**

Medicinal plants have important role in the modern medicine nowadays like homeopathy, Ayurveda, Unani. Field survey was carried out in the region of Ketkawale village in order to study vegetation. Study was focused on collection of medicinal plants of the region. In the present investigation, total 42 plant species were recorded. Out of which belongs to 42 of the family. The current study, which focuses on medicinal plants and their local uses in healthcare also noted other ornamental cultivated plants around residences.

**Keyword :** Plant Survey, Ketkawale, Unique Families,

**Introduction:**

The present survey, taken in Ketkawale village, Taluka Purandar. It is located in Pune District of Maharashtra, India. During the survey, a total of 42 valuable medicinal plant species belonging to various families were identified. In this study, the medicinal plants, ornamental plants and cultivated plants studied, identified upto the genus and family. The relevant information with respect to their botanical names was confirmed on the basis of **Flora of Bombay Presidency, Theoder Cooke**. The medicinal plants are used for common diseases like toothache, skin infections, urine infection, cough and cold by the localities of Ketkawale village. This survey will helpful to guide the residents of the village to keep various ailments under control. use of plants for medicine if studied in scientific way, it will be beneficial for mankind. Medicinal plants have direct relationship with human because they have played an important role in development of human culture. Medicinal plants are the most productive natural resources. Plants extracts from leaf, root, stem, fruit, seeds, etc. can be used directly as medicines by a majority of medicine systems around the world. This will helpful to making various products and chemicals for the advantage of all other life forms. Most of these chemical substances are synthesized in plants, as secondary metabolites. They used in the form of ayurvedic and allopathic medicines. The extensive medicinal plants use of herbal remedies and healthcare reparations, like those described in ancient texts

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**35.Title: Potability Testing of Drinking Water &  
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Author: Prof. Dhangar U. S.

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**POTABILITY TESTING OF DRINKING WATER AND  
MICROBIAL ANALYSIS OF SOIL FROM KETKAWALE  
VILLAGE, MAHARASHTRA, INDIA.**

Prof. Dhangar U.S., Prof. S. R. Shinde, Prof. U. V. Khisti, Prof. N. N. Patil

Department of Microbiology  
hanshulganeshdhangar@gmail.com

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**Abstract:**

Ketkawali is a village situated in Purandar Taluka in Pune district Maharashtra state, India. Ketkawali village is located in Purandar tehsil of Pune district in Maharashtra, India. Ketkawali village is rich in biodiversity of soil. There is famous balaji Temple 1Km away from village from where number of floral waste coming which get buried most of the time in the soil which may help to increase soil micro flora and also nutrients. Hence the present study investigated about the microbial enrichment of soil from different agricultural land of the village. The present study also analyzed the Potability of drinking water of village, by Coliform-Test-Technique or MPN (Most probable number) method.

**Keywords :** Ketkawali, Water potability test, Soil, SPC, MPN.

• **Introduction:**

Ketkawali is a village which is located in Purandar tehsil of Pune district in Maharashtra, India. It is situated near sub district headquarter Saswad about 12 Km away. The Total geographical area of village is 483 hectares. Saswad is the nearest town to ketkawale for all major economic activities. As the various temples are the part of village, the famous one is pratiBalaji temple generates huge floral waste. Also many man made activities like use of chemical pesticides, fungicides, other chemicals in preservation may affect the soil health. The pollution of soil affects the health of crops ultimately all living organisms which are dependent. The analysis of soil by Standard plate Count(SPC) method will give the average number of microorganisms present in soil of different agricultural land gives the information about biodiversity as well as pathogenic and Non-pathogenic organisms present in the soil sample (Vieira F. C. S.

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**36.Title: Checklist of Animal Diversity in Ketkawale  
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36. Title: Checklist of Animal Diversity in Ketkawale Village of Purandar

**CHECKLIST OF ANIMAL DIVERSITY IN KETKAWALE  
VILLAGE OF PURANDAR TEHSIL**

**Dr. Anju Mundhe, Dr. Sharad Giramkar, Sachin Pawar,  
Devidas Holkar, Rohan Kunjir, Ajay Shinde**  
Department of Zoology  
aymundhe@gmail.com

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**Abstract:**

Animal survey was performed at Ketkawale village of Purandar Tehsil. Animal survey was conducted in winter season. Observed animals were photographed and identified by using identification keys. A checklist of 50 animals was prepared by a walking survey method. Out of these, 25 animals belong to 22 families of Phylum Arthropoda while 26 animals belong to 22 families of Phylum Chordata. Around 21 bird species resident in the Ketkawale village. It indicates the importance of the village as an ecosystem.

**Keywords:** Ketkawale, Village survey, Biodiversity, Animals, Birds, Insects

**Introduction:**

Western Ghats is the biodiversity-rich region of India and Ketkawale is located in its eastern portion. The common animals recorded in this region are leopard, wild deer, rabbit, Indian rat snake, uncommon migratory birds etc. To safeguard these areas and market them as tourism attractions, the state has made appropriate steps to establish numerous wildlife parks and sanctuaries. Biodiversity is necessary for all species on Earth, including humans, to function properly. We cannot have healthy ecosystems that give us with the air we breathe and the food we consume without a diverse range of animals, plants, and microorganisms (Giramkar et.al 2022). Animal biodiversity is essential to maintain the stability of the ecosystem. To help protect the diversity, there is a need to generate a checklist of animals. Hence the objective of the present study was to prepare a checklist of animal diversity in the study area.

**Materials and methods:**

**a. Study area:**

Ketkawale village of Purandar Taluka is located in the Pune district of Maharashtra

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Author: Jagtap S.R.

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## ANALYSIS OF PHYSIOCHEMICAL PARAMETERS TO EVALUATE THE QUALITY OF SOIL AND WATER AT KETKAWLE VILLAGE, MAHARASHTRA, INDIA.

Prof. Shital R. Jagtap

Department of Chemistry

sjchem2020@gmail.com

### Abstract-

Soil and water are the most important natural resources for the good health of plant, human being and environment. In the present study it was preferred to investigate the soil and water samples for its physico-chemical analysis of some parameters. Representative samples were obtained and analysed for its colour, texture, pH, EC, TDS, TSS with an objectives soil survey, mapping and analysis of physico-chemical properties of soil of different land and sources of water at ketkawale villege.

Keywords: Physico-chemical, EC, PH, TDS, TSS

### Introduction-

The word soil is derived from a latin word 'solum' meaning floor. Soil is important to everyone either directly or indirectly. It is natural body on which agriculture product grow and it is fragile ecosystem. An understanding of physical and chemical condition of any soil it is essential for proper implementation of the other management practices. Therefore the physico-chemical study of soil is very important because both **physical and chemical properties which affect the soil productivity**. In recent years, most of the farmers are using the excess amount of fertilizers and pesticides. Due to excess use of chemicals soil quality decreases. Small crop also affected due to large use of fertilizers and pesticides. So it important to analyse soil and water. Above information helps to farmers to use integrated nutrient management practice to maintain optimum concentration of all the essential nutrients for plants. It is also very essential and important to test the water before it is used for drinking, domestic, agricultural or industrial purpose. Water must be tested with different physico-chemical parameters. Selection of parameters for testing of water is solely depends upon for what purpose we going to use that water and what extent we need its quality and purity. With this aim

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Author: Dr. Mundhe A. Y

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Author: Dr. Shinde S. R

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### POTABILITY TESTING OF DRINKING WATER AND MICROBIAL ANALYSIS OF SOIL FROM KETKAWALE VILLAGE, MAHARASHTRA, INDIA.

Prof. Dhangar U.S, Prof. S. R. Shinde, Prof. U. V. Khisti, Prof. N. N. Patil  
Department of Microbiology  
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#### Abstract:

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**Keywords :** Ketkawali, Water potability test, Soil, SPC, MPN.

#### • Introduction:

Ketkawali is a village which is located in Purandar tehsil of Pune district in Maharashtra, India. It is situated near sub district headquarter Saswad about 12 Km away. The Total geographical area of village is 483 hectares. Saswad is the nearest town to ketkawale for all major economic activities. As the various temples are the part of village, the famous one is pratiBalaji temple generates huge floral waste. Also many man made activities like use of chemical pesticides, fungicides, other chemicals in preservation may affect the soil health. The pollution of soil affects the health of crops ultimately all living organisms which are dependent. The analysis of soil by Standard plate Count(SPC) method will give the average number of microorganisms present in soil of different agricultural land gives the information about biodiversity as well as pathogenic and Non-pathogenic organisms present in the soil sample.(Vieira, F. C. S., & Nahas, E. (2005). Observing at microbial diversity in soil provides important insights

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# Maharashtra India

Author: Dr. Khisti U. V.

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42.Title: Impact of Tourism in Village Development with Special Reference to Ketkawale (Prati Balaji Mandir) Tal

# Purandar Dist Pune

Author: Dasgupta S. A.

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Book chapter

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## IMPACT OF TOURISM IN VILLAGE DEVELOPMENT WITH SPECIAL REFERENCE TO KETKAWALE (PRATI BALAJI MANDIR) TAL. PURANDAR, DIST. PUNE

Prof. Dasgupta Shilpi A.

Prof. Newaskar Revati M.

Department of B.Voc. (Tourism & Service Industries)

### Introduction-

Tourism has experienced significant affects and consequences from religion over time. This is because religion has made a significant impact on the tourism industry. Especially, there are a lot of religious locations that serve as important tourist destinations. As such, it goes without saying that these two sectors are interrelated with each other as they are dependent of each other. The fact that religion has a long history is one of its finest qualities. Religion has a history that goes back at least 2,000 years. As a result, learning more about how religion has changed and evolved over time is a highly important component of tourism, which makes the history of religion quite significant. The village Ketkawale is located in Purandhar Tahsil of Pune District in the State of Maharashtra in India. It comes under Purandhar Community Development Block. The nearest town is Sasvad, which is about 12 kilometers away from Ketkawale. Ketkawale share a huge importance as religious tourism spot Prati Balaji. The goal was to examine the effects and opportunities for local development that religious tourism can have. This study indicates that religious tourism represents the region's greatest immense potential and that it can assist in the growth of other types of travel, including cultural and nature tourism.

### Aims of the Study: –

Study about impact of tourism in environment, socio-economic life of the People due to the development of the Religious tourist spot (Ketkawale Prati Balaji Mandir)

### Methodology:-

Secondary data like online Journal, Magazine used for detail information about area.

Primary data were used to conduct the study. There are 3 ways to do it:

#### 1. Observation –

A personal observation was made of the Prati Balaji Ketkawale, the area around the

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43.Title: Solid Waste Management & Pollution Analysis  
from Ketkawale Village Maharashtra India

Author: Prof. Deshpande M. V.

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43. Title: Solid Waste Management & Pollution Analysis from Ketkawale Village Maharashtra India

Author: Prof. Deshpande M. V.

**SOLID WASTE MANAGEMENT AND POLLUTION ANALYSIS  
FROM KETKAWALE VILLAGE, MAHARASHTRA, INDIA.**

**Prof. Kamashetty A. O, Prof. Deshpande M. V, Prof. Khisti U. V**  
Department of Environmental Science

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**Abstract:**

Ketkawale village is situated in Purandar Taluka in Pune district Maharashtra state, India. The total geographical area of village is 483 hectares. Population of the village is around 1250 peoples, out of which 627 are male and 623 are females. There is famous Balaji Temple 1Km away from village Hence the Tourist mostly attracted to visit. the present study investigated about the Solid waste management and pollution of the Ketkawale village by using questionnaires.

**Keywords:** Ketkawale, solid waste management, pollution.

• **Introduction:**

Ketkawale is a village which is located in Purandar tehsil of Pune district in Maharashtra, India. It is situated near sub district headquarter Saswad about 12 Km away. The Total geographical area of village is 483 hectares. Saswad is the nearest town to Ketkawale for all major economic activities. Population of the village is around 1250 peoples, out of which 627 are male and 623 are females. There are about 275 houses in village. The major Occupation of the village is agriculture, and Animal husbandry. The wastes generated in Agricultural field and domestically are manged by village itself.

• **Aims and Objectives of the study:**

- Analysis of solid waste management by questionnaires.
- Floral waste decomposition ideas .
- Pollution survey by questionnaires.
- To Create awareness among people about waste management.
- To implement new ideas of waste management such as making fertilizers from waste, and preparing natural colour from floral waste etc.
- To aware public about their local areas pollution.

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44. Title: Studies on Induced Mutation in Barnyard  
Millet (*Echinochloa esculenta*) L.  
Author: Danai-Tambhale S. D



Abstract-22

**Magnetic hyperthermia with Fe<sub>3</sub>O<sub>4</sub> nanoparticles**

Amol B. Pandhare <sup>ab</sup>, Rajendra P. Patil <sup>b\*</sup>, Sagar D. Delekar <sup>a\*</sup>

<sup>a</sup> Department of Chemistry, Shivaji University, Kolhapur, Maharashtra 416 004 MS, India.

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\*Corresponding Author E-mail: sddelekar7@gmail.com (Sagar D. Delekar)

**Abstract:** Biocompatibility restrictions have limited the use of magnetic nanoparticles for magnetic hyperthermia therapy to iron oxides, namely magnetite (Fe<sub>3</sub>O<sub>4</sub>) and maghemite (γ-Fe<sub>2</sub>O<sub>3</sub>). However, there is yet another magnetic iron oxide phase that has not been considered so far, despite its unique magnetic properties: Fe<sub>3</sub>O<sub>4</sub>. Indeed, whereas Fe<sub>3</sub>O<sub>4</sub> and γ-Fe<sub>2</sub>O<sub>3</sub> have a relatively low magnetic coercivity, Fe<sub>2</sub>O<sub>3</sub> exhibits a giant coercivity. In this report, the heating power of Fe<sub>2</sub>O<sub>3</sub> nanoparticles in comparison with γ-Fe<sub>2</sub>O<sub>3</sub> nanoparticles of similar size (20 nm) was measured in a wide range of field frequencies and amplitudes, in uncoated and polymer-coated samples. It was found that Fe<sub>3</sub>O<sub>4</sub> nanoparticles primarily heat in the low-frequency regime (20–100 kHz) in media whose viscosity is like that of cell cytoplasm. In contrast, γ-Fe<sub>2</sub>O<sub>3</sub> nanoparticles heat more effectively in the high frequency range (400–900 kHz). Cell culture experiments exhibited no toxicity in a wide range of nanoparticle concentrations and a high internalization rate. In conclusion, the performance of Fe<sub>3</sub>O<sub>4</sub> nanoparticles is slightly inferior to that of γ-Fe<sub>2</sub>O<sub>3</sub> nanoparticles in human magnetic hyperthermia applications. However, these Fe<sub>3</sub>O<sub>4</sub> nanoparticles open the way for switchable magnetic heating owing to their distinct response to frequency.

**Keywords:** - Fe<sub>2</sub>O<sub>3</sub> nanoparticles, Biocompatibility, magnetic coercivity

Abstract-23

**Studies on Induced Mutation in Barnyard Millet (*Echinochloa esculenta*) L.**

Jagtap Bhavana D<sup>1</sup>, Danai-Tambhale S. D.<sup>2</sup>

<sup>1&2</sup>Department of Botany, Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-411028, Maharashtra

Corresponding Author:- bhavana.jagtap@gmail.com

**Abstract:** Induced mutation is one of the highly effective and valuable tools in plant breeding technique. Inducing new genetic recombinant with desired traits could be successful research pure line crop. The ultimate goal of plant breeding in millet is to get maximum grain yield including biomass and the harvest index. Recently, millets have returned as a viable option to live a healthy life and can reduce the incidence of lifestyle diseases viz. Diabetes, Hypertension and Cardiovascular. Barnyard Millets have many nutritional nutraceuticals and health promoting properties especially the high fiber content. Significance of our research



**Promotion of Barnyard Millets (*Echinochloa esculenta* L.) for Mitigation of Climate Change**

**<sup>1</sup>Danai-Tambhale <sup>2</sup>Jagtap B. D. and Kamble S. R.**

<sup>1</sup>*Department of Botany, Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-411028, Maharashtra*

<sup>2</sup>*Research Centre, Prof. Ramkrishna More College, Akurdi, Pune-411035, Maharashtra  
Mhalasakant Jr. College, Akurdi, Pune-411035, Maharashtra*

**Purpose**

The aim of the experiment is to develop an improved variety by leverage its existing climate resilient characteristics and adding to them higher nutritional characteristics. Produced variety will help farmers' better cope with climate shocks and also provide a good new alternative source of food for consumers. To increase agricultural productivity and incomes of farmers.

**Methods**

The Barnyard millet crop Phule Butri-1 procured and treated with various dilutions in mM solution of 50 to 150mM with Ethyl methane sulfonate was sown to study chemical mutation.

**Results**

Crop of Barnyard millet of M1 generation after harvesting from research plot some interesting characteristics features were observed. Harvested crop shows multiple tillers with more number of compact panicles along with extended fingers and grains.

**Conclusions**

The experiment will help to develop an improved variety by leverage its existing climate resilient characteristics and adding to them higher nutritional characteristics. Produced variety will not only will help farmers' better cope with climate shocks but also provide a good new alternative source of food for consumers.

**Keywords:** Barnyard millet, Chemical Mutation, Climate resilient

**Assessment Of Different Methods Of Sowing In Wheat For Higher Germination, Growth And Yield**

**Jeetendra Kumar<sup>1\*</sup>, Wajid Hasan<sup>1</sup>, R.K. Sohane<sup>2</sup>, Muneshwar Prasad<sup>1</sup>, Amrendra Kumar<sup>3</sup>, Anjani Kumar<sup>3</sup> and Abhay Kumar<sup>1</sup>**

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**Purpose**

In wheat sowing, farmers generally use broadcasting method that results poor germination and less yield despite of applying high seed rate which is due to non-uniform seed placement in broadcasting method. Wheat sowing by suitable method at proper depth by using improved implement resulted uniform seed placement, better germination and improved yield. Rawat and Varma (2006) evaluated the performance of zero-till ferti seed-drill for Wheat crop, Sah (2017) conducted trial on zero tillage as a profitable conservation technology and Verma (2017) studied zero-tillage technology and traditional techniques for sowing of Wheat. Keeping this in view, a study was conducted at farmers' field in Jehanabad, Bihar on assessment of different methods of sowing in wheat for higher germination, growth and yield towards approaches for climate change mitigation. The present study aims to determine the parameters -soil moisture, seed rate, plant density, no. of tillers/heal, yield data as well as B: C ratio in use of different sowing method for wheat cultivation in South Bihar.

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46. Title: Impact of Tourism in Village Development with Special Reference to Ketkawale (Prati Balaji Mandir )Tal Purandar Dist Pune

Author: Prof. Newaskar R.

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**46. Title: Impact of Tourism in Village Development with  
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**IMPACT OF TOURISM IN VILLAGE DEVELOPMENT WITH  
SPECIAL REFERENCE TO KETKAWALE (PRATI BALAJI  
MANDIR) TAL. PURANDAR, DIST. PUNE**

Prof. Dasgupta Shilpi A.

Prof. Newaskar Revati M.

Department of B.Voc. (Tourism & Service Industries)

**Introduction-**

Tourism has experienced significant affects and consequences from religion over time. This is because religion has made a significant impact on the tourism industry. Especially, there are a lot of religious locations that serve as important tourist destinations. As such, it goes without saying that these two sectors are interrelated with each other as they are dependent of each other. The fact that religion has a long history is one of its finest qualities. Religion has a history that goes back at least 2,000 years. As a result, learning more about how religion has changed and evolved over time is a highly important component of tourism, which makes the history of religion quite significant. The village Ketkawale is located in Purandhar Tahsil of Pune District in the State of Maharashtra in India. It comes under Purandhar Community Development Block. The nearest town is Sasvad, which is about 12 kilometers away from Ketkawale. Ketkawale share a huge importance as religious tourism spot Prati Balaji. The goal was to examine the effects and opportunities for local development that religious tourism can have. This study indicates that religious tourism represents the region's greatest immense potential and that it can assist in the growth of other types of travel, including cultural and nature tourism.

**Aims of the Study: –**

Study about impact of tourism in environment, socio-economic life of the People due to the development of the Religious tourist spot (Ketkawale Prati Balaji Mandir)

**Methodology:-**

Secondary data like online Journal, Magazine used for detail information about area.

Primary data were used to conduct the study. There are 3 ways to do it:

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46. Title: Studies on Induced Mutation in Barnyard Millet  
(*Echinochloa esculenta*) L  
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### Abstract-23

#### Studies on Induced Mutation in Barnyard Millet (*Echinochloa esculanta*) L.

Jagtap Bhavana D<sup>1</sup>, Danai-Tambhale S. D.<sup>2</sup>

<sup>1,2</sup>Department of Botany, Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-411028, Maharashtra

Corresponding Author: bhavna.jagtap@gmail.com

**Abstract:** Induced mutation is one of the highly effective and valuable tools in plant breeding technique. Inducing new genetic recombinant with desire traits could be successful research pure line crop. The ultimate goal of plant breeding in millet is to get maximum grain yield including biomass and the harvest index. Recently, millets have returned as a viable option to live healthy life and can reduce the incidence of lifestyle diseases viz. Diabetes, Hypertension and Cardiovascular. Barnyard Millets have many nutritional nutraceuticals and health promoting properties especially the high fiber content. Significance of our research

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48. Title: Promotion of Barnyard Millets (*Echinochloa esculenta* L.) for Mitigation of Climate Change

Author: Prof. Jagtap B. D.

**Promotion of Barnyard Millets (*Echinochloa esculenta* L.) for Mitigation of Climate Change****<sup>1</sup>Danai-Tambhale <sup>2</sup>Jagtap B. D. and Kamble S. R.**<sup>1</sup>*Department of Botany, Annasaheb Magar Mahavidyalaya, Hadapsar, Pune-411028, Maharashtra*<sup>2</sup>*Research Centre, Prof. Ramkrishna More College, Akurdi, Pune-411035, Maharashtra  
Mhalasakant Jr. College, Akurdi, Pune-411035, Maharashtra***Purpose**

The aim of the experiment is to develop an improved variety by leverage its existing climate resilient characteristics and adding to them higher nutritional characteristics. Produced variety will help farmers' better cope with climate shocks and also provide a good new alternative source of food for consumers. To increase agricultural productivity and incomes of farmers.

**Methods**

The Barnyard millet crop Phule Butri-1 procured and treated with various dilutions in mM solution of 50 to 150mM with Ethyl methane sulfonate was sown to study chemical mutation. Results

Crop of Barnyard millet of M1 generation after harvesting from research plot some interesting characteristics features were observed. Harvested crop shows multiple tillers with more number of compact panicles along with extended fingers and grains.

**Conclusions**

The experiment will help to develop an improved variety by leverage its existing climate resilient characteristics and adding to them higher nutritional characteristics. Produced variety will not only will help farmers' better cope with climate shocks but also provide a good new alternative source of food for consumers.

**Keywords:** Barnyard millet, Chemical Mutation, Climate resilient**Assessment Of Different Methods Of Sowing In Wheat For Higher Germination, Growth And Yield****Jeetendra Kumar<sup>1\*</sup>, Wajid Hasan<sup>1</sup>, R.K. Sohane<sup>2</sup>, Muneshwar Prasad<sup>1</sup>, Amrendra Kumar<sup>3</sup>, Anjani Kumar<sup>3</sup> and Abhay Kumar<sup>1</sup>**<sup>1</sup>*Krishi Vigyan Kendra, Jehanabad (Bihar)-804432, India, <sup>2</sup>Directorate of Extension Education, BAU, Sabour, Bhagalpur-813210, Bihar, India, <sup>3</sup>ICAR-ATARI, Zone-IV, Patna-800014, Bihar, India***Purpose**

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**Methodology**

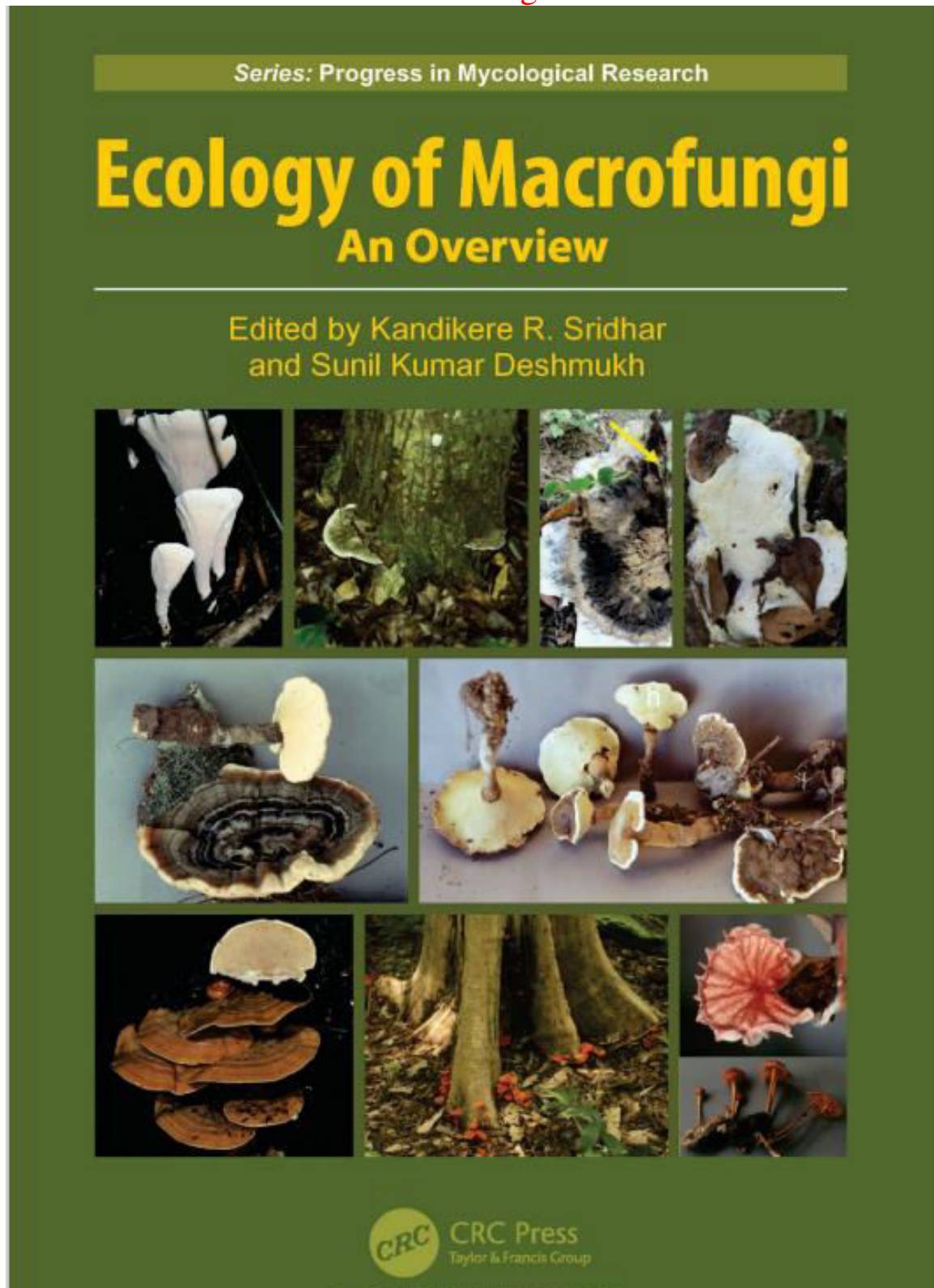
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49. Title: Ecology of Macrofungi an Overview- Substrate Ecology of Wood Inhabiting Basidiomycetes

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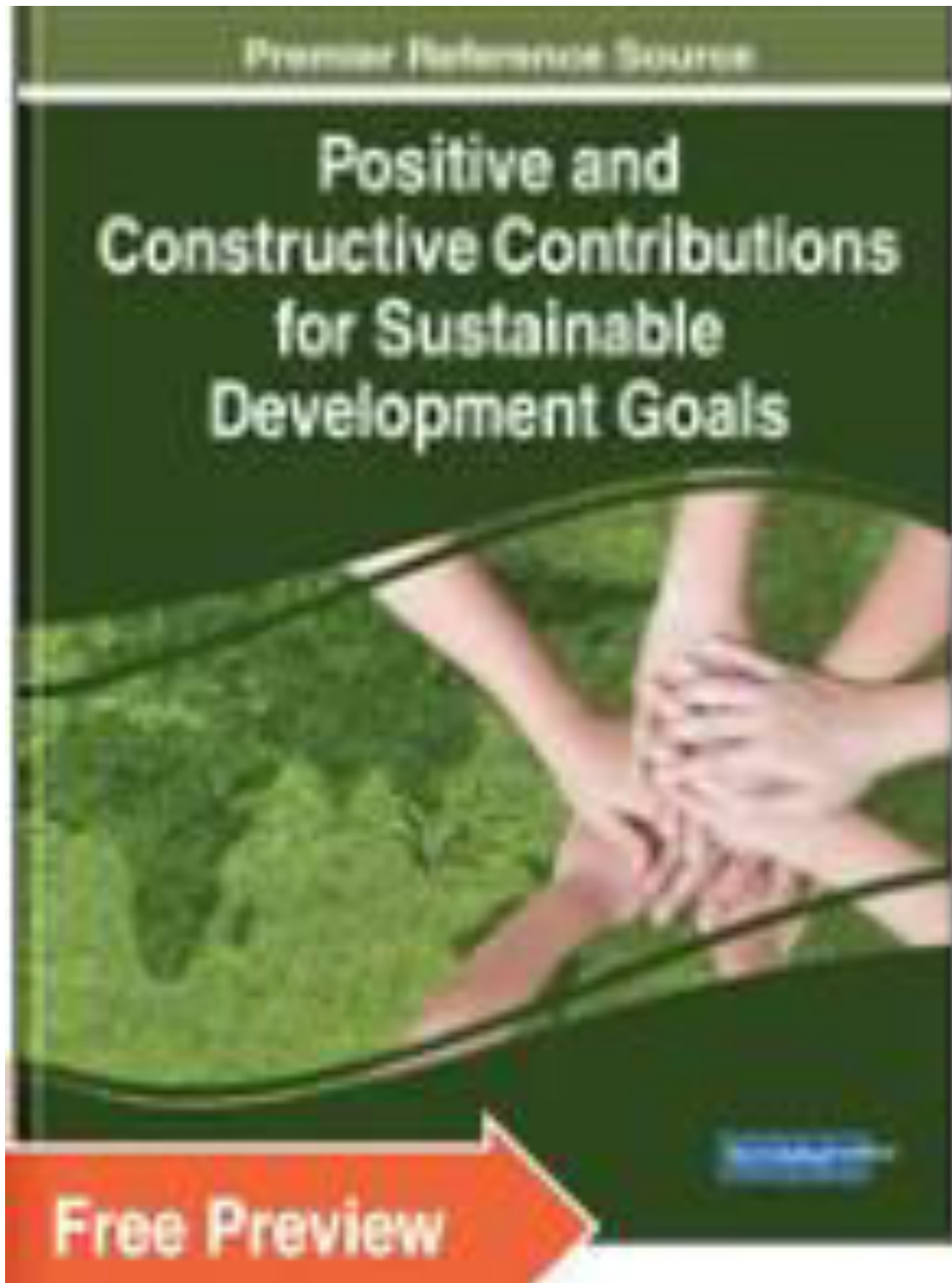
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50Title: Social Management of Pharma Products for Sustainable Development – Positive & Constructive Contributions for Sustainable Development Goals

Author: Prof. Dr. Patil N. N.

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# 50Title: Social Management of Pharma Products for Sustainable Development – Positive & Constructive Contributions for Sustainable Development Goals

Author: Prof. Dr. Patil N. N.

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The research aims to analyze the different theoretical perspectives under which corporate social responsibility (CSR) has been analyzed. Based on the...

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# 51. Title: Solid Waste Management & Pollution Analysis from Ketkawale Village Maharashtra India

Author: Dr. Khisti U. V.

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Book Chapter

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Scientific Approach for Rural Development

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## SOLID WASTE MANAGEMENT AND POLLUTION ANALYSIS FROM KETKAWALE VILLAGE, MAHARASHTRA, INDIA.

Prof. Kamashetty A. O, Prof. Deshpande M. V, Prof. Khisti U. V

Department of Environmental Science

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### Abstract:

Ketkawale village is situated in Purandar Taluka in Pune district Maharashtra state, India. The total geographical area of village is 483 hectares. Population of the village is around 1250 peoples, out of which 627 are male and 623 are females. There is famous Balaji Temple 1Km away from village Hence the Tourist mostly attracted to visit. the present study investigated about the Solid waste management and pollution of the Ketkawale village by using questionnaires.

**Keywords:** Ketkawale, solid waste management, pollution.

### • Introduction:

Ketkawale is a village which is located in Purandar tehsil of Pune district in Maharashtra, India. It is situated near sub district headquarter Saswad about 12 Km away. The Total geographical area of village is 483 hectares. Saswad is the nearest town to Ketkawale for all major economic activities. Population of the village is around 1250 peoples, out of which 627 are male and 623 are females. There are about 275 houses in village. The major Occupation of the village is agriculture, and Animal husbandry. The wastes generated in Agricultural field and domestically are manged by village itself.

### • Aims and Objectives of the study:

- Analysis of solid waste management by questionnaires.
- Floral waste decomposition ideas .
- Pollution survey by questionnaires.
- To Create awareness among people about waste management.
- To implement new ideas of waste management such as making fertilizers from waste, and preparing natural colour from floral waste etc.
- To aware public about their local areas pollution.

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# 52. Title: Bioremediation of Pharma Pollutants Using Synthetic Systems


Author: Manisha Gadekar

Book Chapter

## Chapter 16

# Bioremediation of Pharma Pollutants Using Synthetic Systems

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## ABSTRACT

*The pharmaceutical industry is responsible for the environmental pollution imposed by drugs, heavy metals, and surfactants. In-situ remediation of pharma pollutants with the cell-based system has some limitations like sensing of contaminants, efficacy, cost, concentration of pollutants, toxicity level, etc. Synthetic biology is important for gene mining, enzymes discovery, and biodegradation pathway of pollutants. The chapter is based on the synthetic systems for remediation of the pharma pollutants.*

## INTRODUCTION

Pharmaceutical wastes are one of the emerging pollutants to the ecosystem. Reports are available on their presence in water bodies, soil and WWTPs affecting the human and other life forms (Khetan and Collins, 2007; Kosjek and Krbavcic, 2005). Sources of pharmaceutical wastes are manufacturing industries, health care units, residential wastewater etc. (Gadepalli et al., 2014). Pharmaceutical wastes

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Author: Prof. Mali D. D.

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## Chapter 16

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# 54. Title: Bioremediation of Acetaminophen and Hydroxychloroquine by *Kosakonia cowanii* JCM 10956 (T) with Eco toxicity

Author: Prof. Dr. Patil N. N.

Book Chapter



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## Bioremediation of Acetaminophen and Hydroxychloroquine by *Kosakonia cowanii* JCM 10956(T) with ecotoxicity studies

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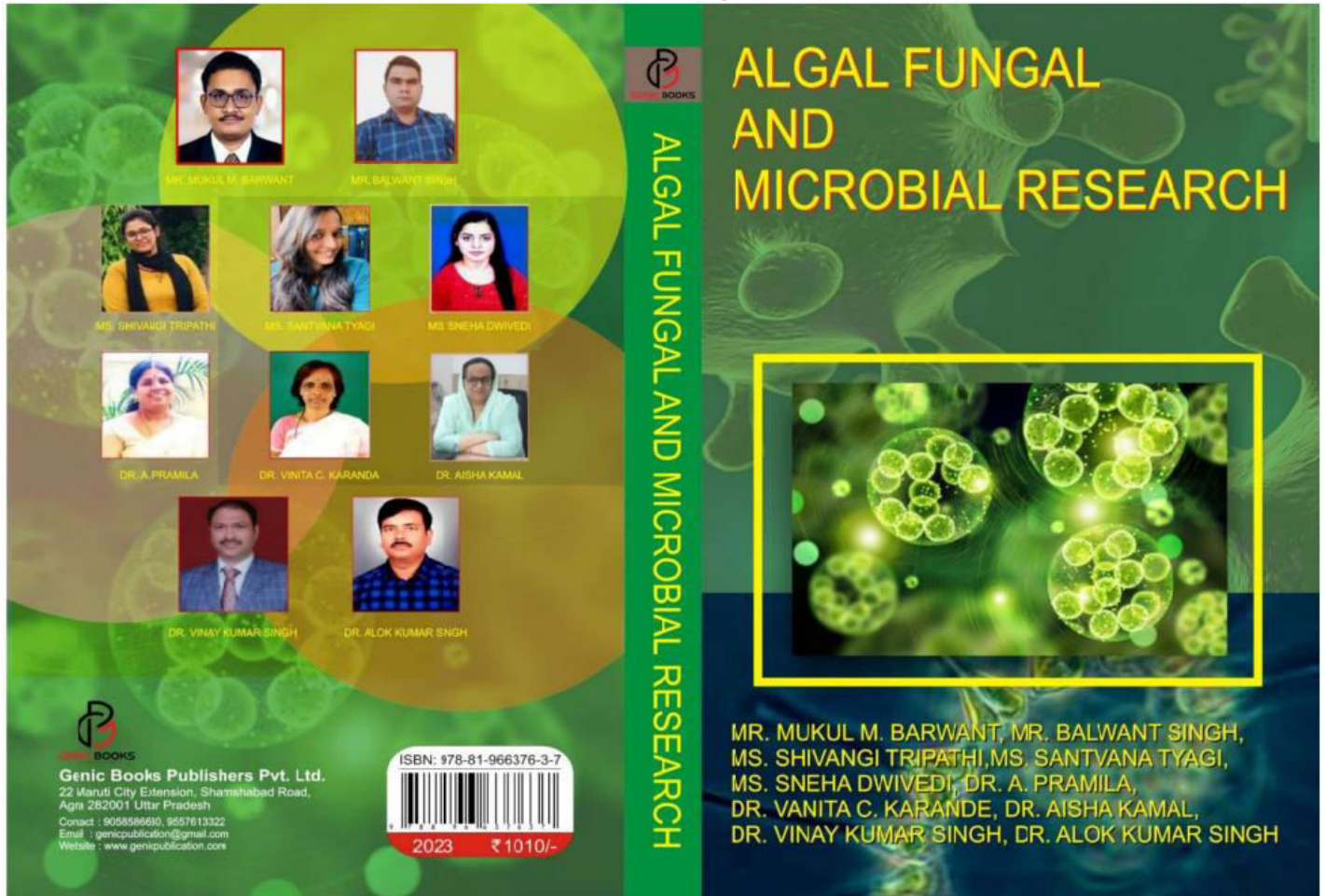
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# 55. Title: Checklist of Fungi from Kalsubai Area, Maharashtra State – Part I

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# 55. Title: Checklist of Fungi from Kalsubai Area, Maharashtra State – Part I

Author: Dr. Randive K.R

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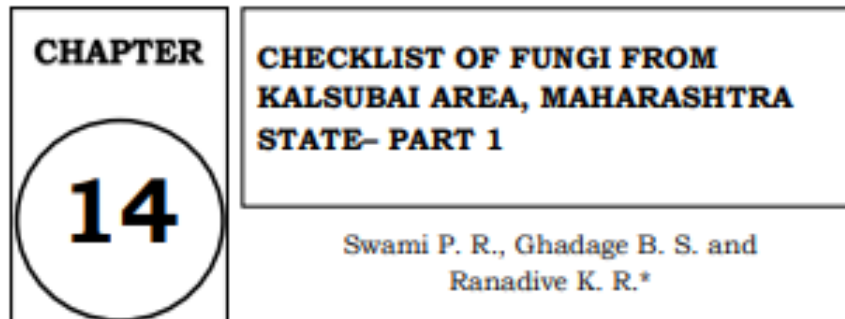
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# 55. Title: Checklist of Fungi from Kalsubai Area, Maharashtra State – Part I

Author: Dr. Randive K.R

Book Chapter



## **A**bstract

This is the highest peak of the state of Maharashtra. During this visit 14 fungi were collected from which Aphylophorales are found to be dominant in the same area. This is the first effort to document the diversity of the Kalsubai area.

**Keywords:** *Aphylophorales, Basidiomycetes, Diversity, Fungi.*

Department of Botany, P. D. E. A. Annasaheb Magar Mahavidyalaya,  
Hadapsar, Pune-411028, Maharashtra, India,

Algal, Fungal and Microbial Research

2023

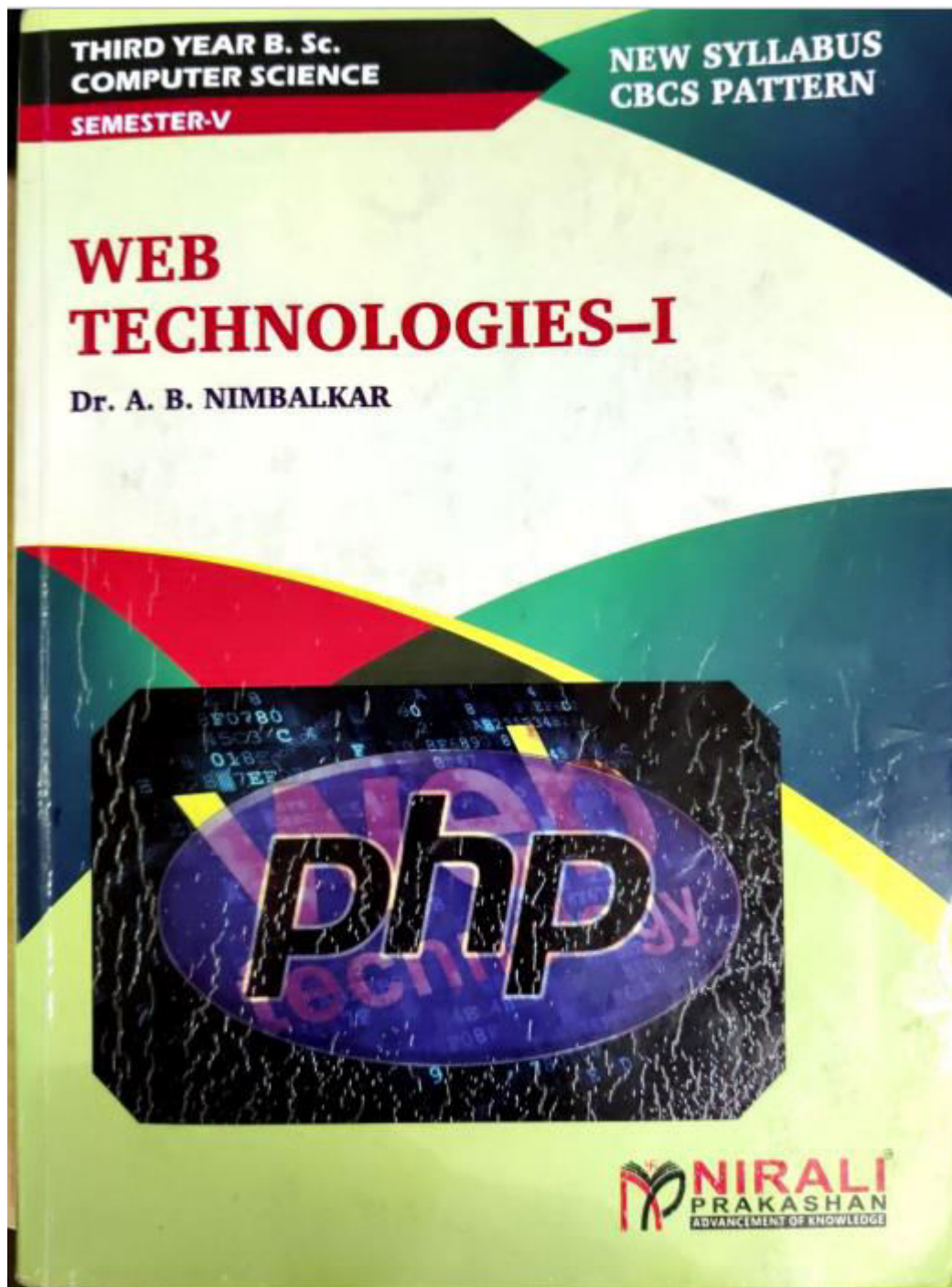
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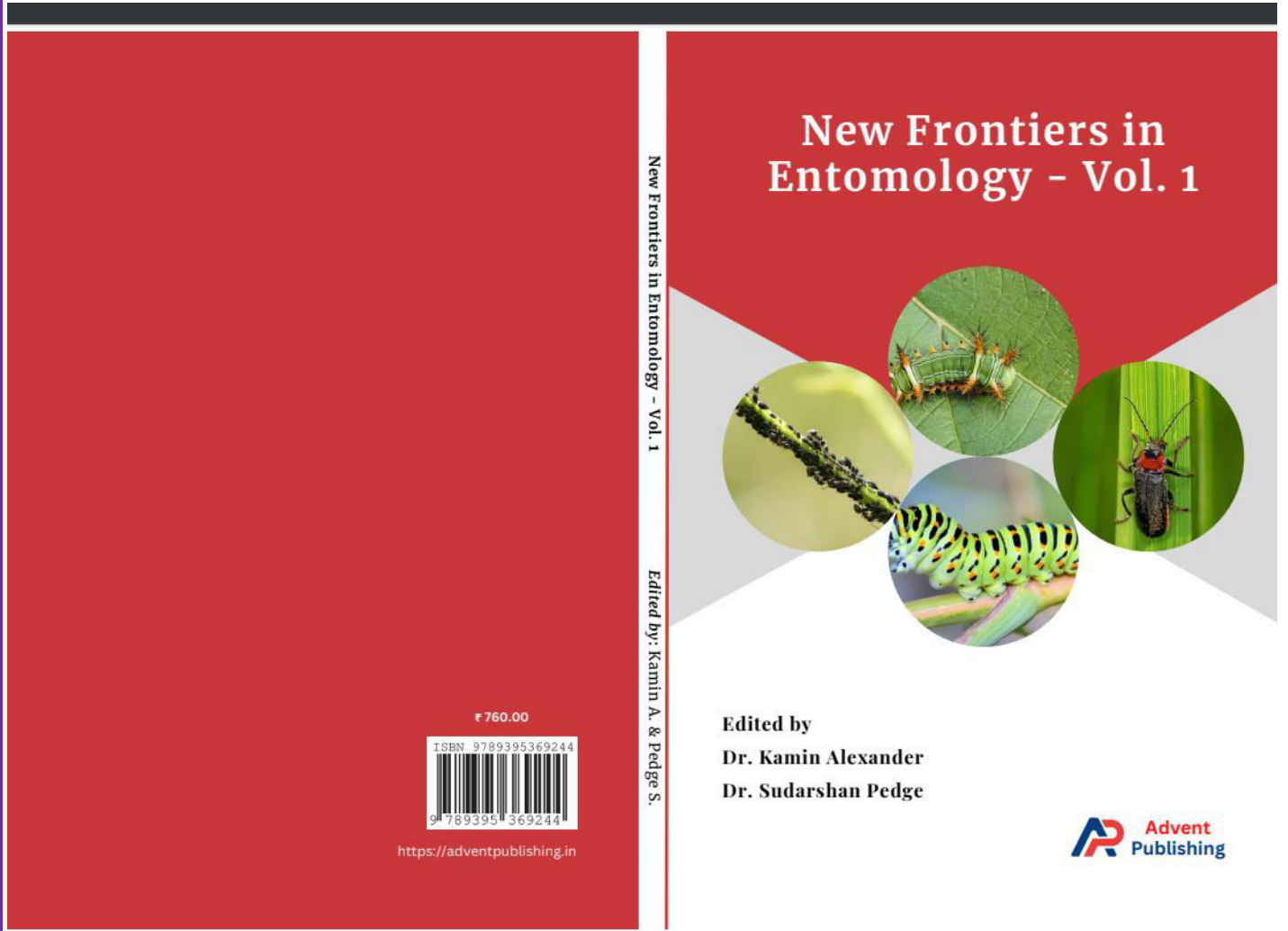
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Author: Dr. Anju Mundhe

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Book Chapter



## CHAPTER THREE

### A new emerging biocontrol agent; entomopathogenic fungi

Anju Mundhe<sup>1</sup> and Kishor Raut<sup>2</sup>

<sup>1</sup>PDEA's Annasaheb Magar Mahavidyalay, Hadapsar, Pune Maharashtra –411028

<sup>2</sup>Ross Lifescience Ltd. Bhosari, Pune, Maharashtra – 411026

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#### Abstract

Insects are key element of many ecosystems processes & many insects are a pest that causes damage to humans and human concerns. To control insect pests many chemical and natural strategies are used, but now day researchers are concentrating on biological control like entomopathogenic fungi because fungal diseases are common in insects. Virtually all insects are vulnerable to fungal diseases. Most of entomopathogenic fungi studied are extremely useful for the control the insect pest mainly *Beauveria bassiana*, *Metarhizium anisoplias*, *Paecilomyces farinosus*, *Leptolegnia chapmanii* etc. The interest in insect pest-killing fungi is flourishing, due to continuous and increasing levels of insecticide resistance and increasing global risk of insect pest damage to humans and the environment. This chapter will present an update of published data on entomopathogenic fungi against four insect pests and that is Mosquito & Termites. This also includes the general classification and biology of entomopathogenic fungi with their transmission and vectoring. The entomopathogenic fungi with renewed/improved efficacies may contribute to an expansion of the limited resource of effective insect pest control tools and they contribute in a substantial and environmental manner to manage insect pest damage to humans and their concerns.

#### Introduction

Nearly one million species belong to Class Insecta which is around 67 % of the world's Fauna and Flora on earth <sup>1</sup>. The insect plays a particularly key role in the ecosystem & works as pollinators, herbivores, vectors of many parasites, etc. The Insect pests cause severe damage to agriculture through the consumption of crops and incidental damage to plants by vectoring viruses and parasites onto them. They are vectors of many parasites which cause damage to human health and the economy. The researchers have conducted tremendous experimental works to find such bio-controlling agents which can be naturally applied with the help of integrated pest management (IPM) strategies for controlling insect pests <sup>2</sup>.

In this review, we are concentrating on some entomopathogenic fungi which can be used as biocontrol agents & can be used to reduce the loss and damage by insect pests.

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Author: Dr. Kaswan Poonam

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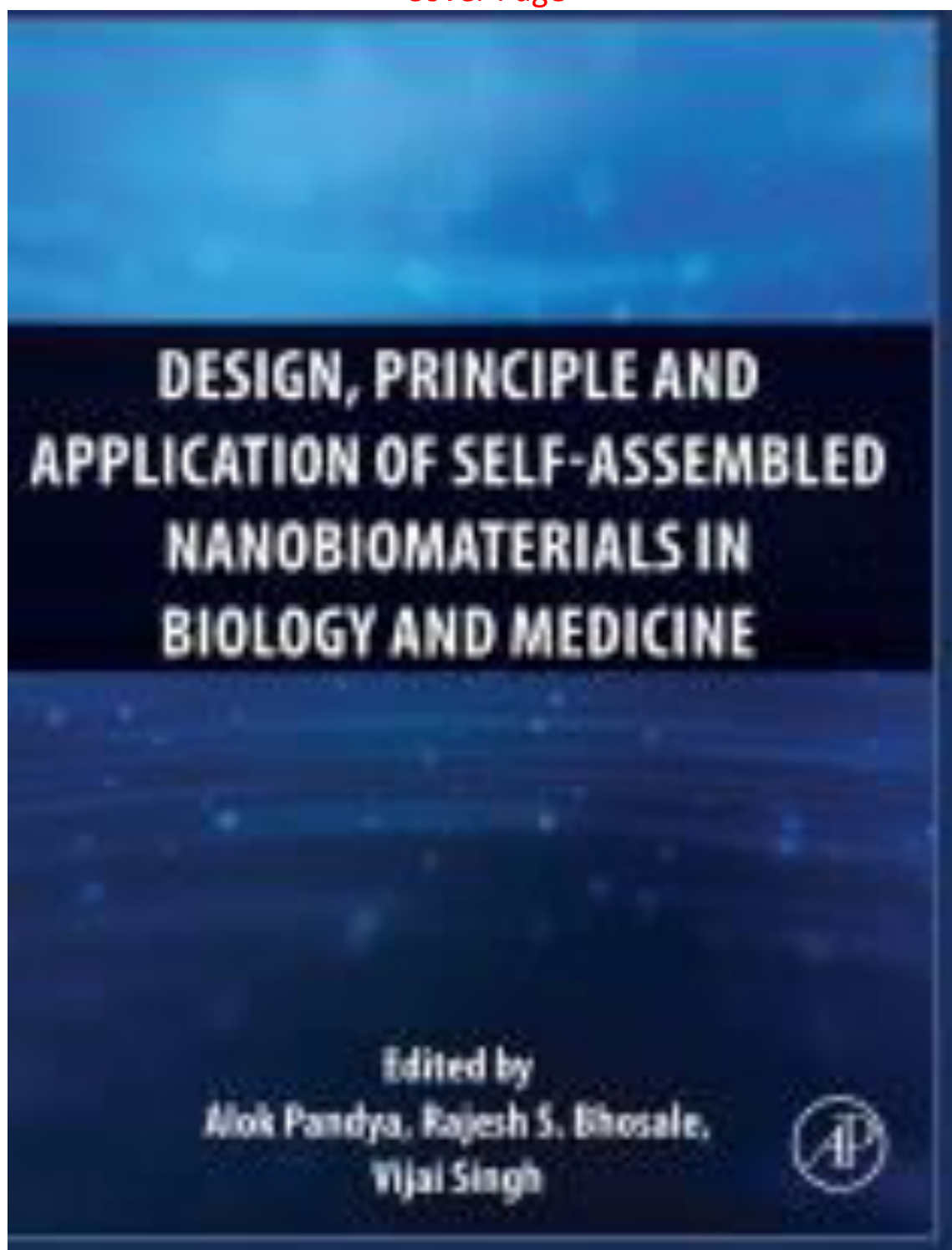
## **IONIC LIQUIDS:** ECO-FRIENDLY SUBSTITUTES FOR SURFACE AND INTERFACE APPLICATIONS



59. Title: Recent Development in Chiral Self-assembly of porphyrin and protoporphyrin IX molecular architectures

Author: Dr. Latesh Nikam

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# 59. Title: Recent Development in Chiral Self-assembly of porphyrin and protoporphyrin IX molecular architectures

Author: Dr. Latesh Nikam

Book Chapter

Chapter 4

## Recent development in chiral self-assembly of porphyrin and protoporphyrin IX molecular architectures

Madan R. Biradar<sup>1,2</sup>, Nilesh M. Gosavi<sup>3</sup>, Latesh K. Nikam<sup>4</sup>, Sidhanath Vishwanath Bhosale<sup>1,2,\*</sup> and Sheshanath V. Bhosale<sup>3,\*</sup>

<sup>1</sup>Polymers and Functional Materials Division, CSIR-Indian Institute of Chemical Technology, Hyderabad, Telangana, India, <sup>2</sup>Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, Uttar Pradesh, India, <sup>3</sup>School of Chemical Sciences, Goa University, Taleigao Plateau, Goa, India,

<sup>4</sup>Baburaoji Gholap College Sangvi, Pune, Maharashtra, India

\*Corresponding author.

### 4.1 Introduction

In nature, chirality is one of the most primitive principles and is expressed in biological systems during the evolutionary process of life. Chirality is the ability of any molecular architecture to exist a nonsuperimposable pair of mirror images. At molecular levels, L-amino acids and D-sugars, the enantiomers play a vital role in life [1]. At hierarchical levels, DNA, protein, and microtubules are composed of the same chiral building blocks [2]. Such homochirality (handedness) of the genetic polymers strongly acts as a template to their functions in replication and enzymatic reaction, that is, catalysis of the proteins. The researchers ascertain that homochirality is pivotal to biopolymers. Most of the earlier investigation in this field assumed that before the unfolding of biopolymers, homochirality was originated [3,4]. It was believed that bio monomers e.g., amino acids and sugars are self-assembled into corresponding biopolymers with the same handedness, that is, with uniform chirality [4–6]. To mimic the biological self-assembly, the chiral building blocks that participated in the chiral self-assembly could provide a better understanding [7,8]. The simple chiral molecular subunits lead to form hierarchical nan-/microstructures via supramolecular self-assembly process [9,10]. In the case of supramolecular chiral assembly formation, the self-assembly phenomenon is driven by different types of noncovalent intermolecular interactions between the molecular components of these systems. In this respect, a macrocyclic heterocyclic ring of porphyrins bearing a large  $\pi$ -conjugated system is an eminent building block that has an immense interest due to their direct resemblance to various biological processes, that is, catalysis, photosynthesis, electron transport, oxygen transport, and enzymatic function [11,12]. The planar aromatic ring structure of porphyrin is ideal for intermolecular aromatic  $\pi$ - $\pi$  stacking interactions also suitable for peripheral functional manipulation through various groups, which involve various noncovalent e.g., electrostatic, H-bonding, interactions, and ligand-metal coordination. Furthermore, porphyrins are well suited for investigating supramolecular chirality due to their synthetic feasibility, facile handling, highly appropriate photophysical characteristics, and superior bricks to form various supramolecular assemblies [13]. Moreover, porphyrin-based molecular and supramolecular systems have attracted researchers' attention to design and fabricate the functional self-assembled chiral functional devices [14–18]. The induction of chirality in supramolecular self-assembled nano-/microstructures of porphyrin may be generated by introducing chiral motifs in the porphyrin macrocycle or by utilizing naturally occurring molecular scaffolds or via the chiral external field. In some cases, chirality can be achieved by linking two porphyrinoids via chiral linkage. PP-IX is an iron-free form of heme and it has great use in biological, medicinal, and physical applications [19,20]. It plays an important role in securing protein prosthetic groups and for detoxification of the sex hormone synthesis [21]. For the fabrication of chiral self-assembled materials,

Design, Principle, and Application of Self-Assembled Nanobiomaterials in Biology and Medicine. DOI: <https://doi.org/10.1016/B978-0-323-90984-6.00002-7>  
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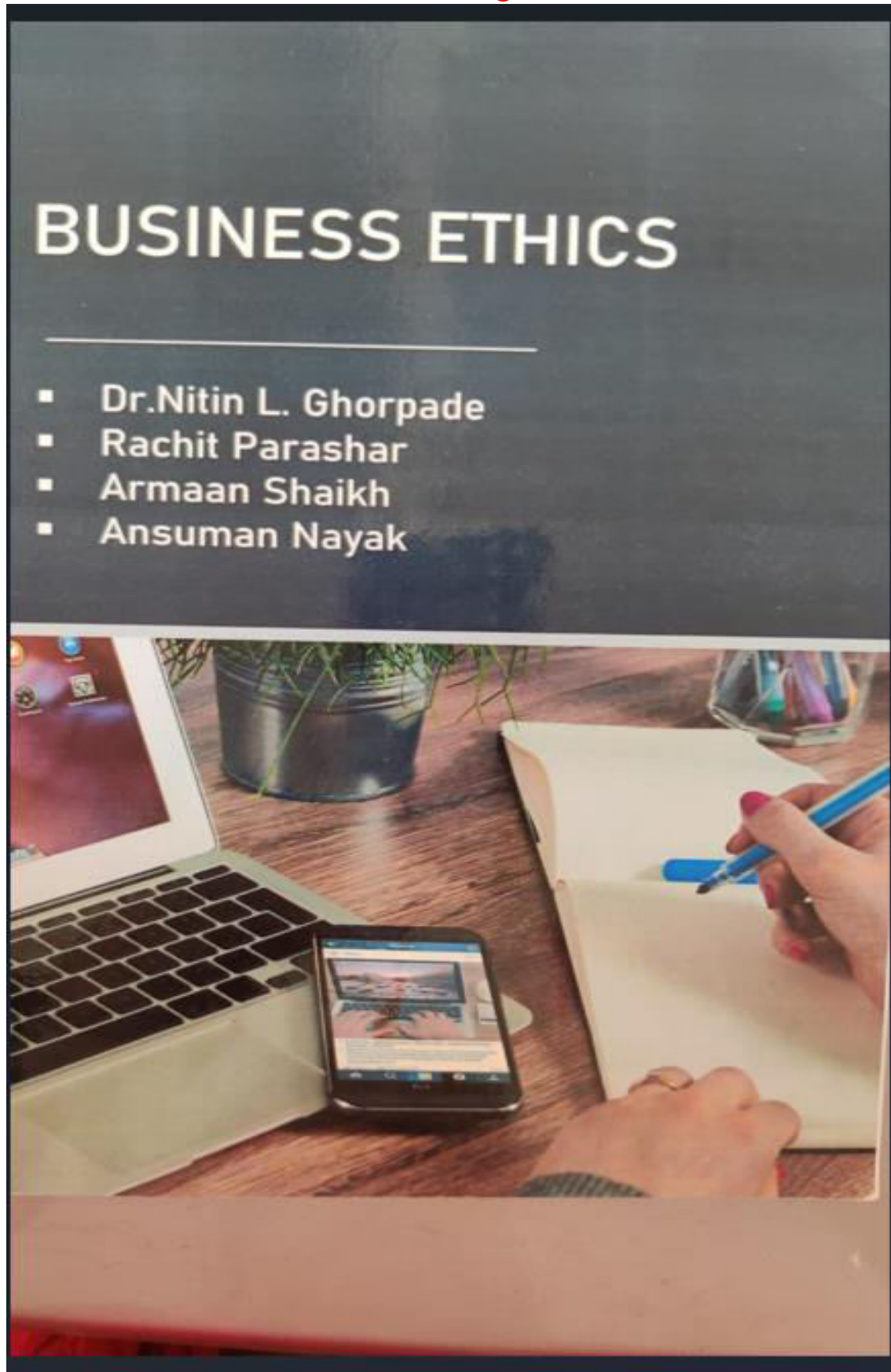
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# 61.Title: One Day Village Survey Camp

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## एक दिवसीय ग्राम सर्वेक्षण शिबीर

डॉ. सविता कुलकर्णी

राष्ट्रीय सेवा योजना जिल्हा समन्वयक

अण्णासाहेब मगर महाविद्यालय राष्ट्रीय सेवा योजना व सावित्रीबाई फुले पुणे विद्यापीठ यांच्या संयुक्त विद्यमाने पुरंदर तालुक्यातील पिंगोरी येथे 'ऐतिहासिक स्थळांची स्वच्छता आणि ग्राम सर्वेक्षण' या विषयावर एक शिबिराचे आयोजन करण्यात आले होते. ग्राम सर्वेक्षण हा गावच्या विकासाचा पहिला टप्पा असून गावात उपलब्ध असणारी नैसर्गिक साधनसामुग्रीच्या बरोबरच सामाजिक, सांस्कृतिक व ऐतिहासिक संचिताचे सर्वेक्षण करून त्यातून विकासाचा नवीन आराखडा मांडता येतो. या सर्वेक्षणाचा अहवाल पुस्तकरूपात प्रकाशित करण्यात येणार असल्याचे महाविद्यालयाचे प्राचार्य व सावित्रीबाई फुले पुणे विद्यापीठाचे व्यवस्थापन परिषद सदस्य डॉ. नितीन घोरपडे यांनी सांगितले.

या शिबिरात माती, पाणी, प्राणी, वनस्पती यांचे नमुने घेऊन परीक्षण, आर्थिक, सामाजिक, उर्जा, बचत गट याविषयी माहिती घेण्यासाठी प्रश्नावलीच्या आधारे घरोघरी सर्वेक्षण, अंगणवाडीतील मुलांची आरोग्य तपासणी, १० वी विद्यार्थ्यांची कलचाचणी, गावातील ओढा, नाला याचा भौगोलिक अभ्यास, वस्तीची रचना नकाशा तयार करण्यासाठी सर्वेक्षण, गावाचा सामाजिक, सांस्कृतिक व राजकीय स्थितीचा अभ्यास करण्यासाठी ग्राम पंचायत, सरपंच, सदस्य यांची मुलाखत असे उपक्रम राबविण्यात आले. या शिबिरात ५० विद्यार्थी व १० शिक्षकांनी सहभाग घेतला.

या प्रसंगी पिंगोरी गावचे सरपंच संदीप यादव, माजी सरपंच मोहिनी शिंदे, पोलीस उपनिरीक्षक सदाशिव शिंदे, कल्याण धुमाळ, सोपान शिंदे, सिने अभिनेते विनोद शिंदे, कॅप्टन शामराव शिंदे, विजय यादव, राष्ट्रीय सेवा योजना जिल्हा समन्वयक डॉ. सविता कुलकर्णी, कार्यक्रम अधिकारी प्रा. गौरव शेलार, डॉ अंजू मुंढे, वंदना सोनवले आदी उपस्थित होते

# 62 Title: NSS Special Camp

Author: Dr. Ghorpade N. L.

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दि. २० डिसेंबर ते २६ डिसेंबर २०२३

डॉ. नितीन घोरपडे प्राचार्य,

व्यवस्थापन परिषद सदस्य सावित्रीबाई फुले पुणे विद्यापीठ

### उद्घाटन समारंभ:

अण्णासाहेब मगर महाविद्यालय राष्ट्रीय सेवा योजना विभागाच्या वतीने मु.पो. पिंगोरी ता. पुरंदर या ठिकाणी दिनांक २० ते २६ डिसेंबर रोजी शिबिराचे आयोजन करण्यात आले होते. शिबिराचे उद्घाटन पुणे जिल्हा शिक्षण मंडळाचे उपसचिव एल. एम. पवार यांच्या हस्ते झाले. महाविद्यालयाचे प्राचार्य व सावित्रीबाई फुले पुणे विद्यापीठाचे व्यवस्थापन परिषद सदस्य डॉ. नितीन घोरपडे अध्यक्षस्थानी होते.

नेहमी सकारात्मक दृष्टिकोन समोर ठेवा व कष्ट करत रहा यश नक्की मिळेल, या श्रम संस्कार शिबिरातून स्वावलंबन, मैत्रीभाव, सहजीवन अशा अनेक गोष्टी शिकायला मिळतील. यातून आपला व्यक्तिमत्त्व विकास होत असतो. या गावातील, समाजातील विविध प्रश्न, समस्या समजून घेऊन त्या सोडवण्यासाठीची तत्परता अंगी बाळगावी असे प्रतिपादन पुणे जिल्हा शिक्षण मंडळाचे उपसचिव एल. एम. पवार यांनी केले.

गावात पर्यावरणविषयक जाणीव जागृती निर्माण करून प्लास्टिक वापर टाळून प्लास्टिकमुळे होणारे प्रदूषण टाळू शकतो. आपण रस्त्यावर, इतरत्र टाकून दिलेले प्लास्टिक नदीवाटे समुद्रात मिसळते यामुळे सृष्टीचक्रात आपणच हस्तक्षेप करत असतो. त्याचा परिणाम पर्यावरणावर होतो. ग्लोबल वॉर्मिंग वाढू नये यासाठी आपण कृती करूयात. असे आवाहन महाविद्यालयाचे प्राचार्य व सावित्रीबाई फुले पुणे विद्यापीठाचे व्यवस्थापन परिषद सदस्य डॉ. नितीन घोरपडे यांनी व्यक्त केले. सरपंच संदीप यादव यांनी विद्यार्थ्यांचे स्वागत करत गावाविषयी माहिती दिली. अमोल शिंदे, उपसरपंच भाग्यश्री शिंदे, प्रकाश शिंदे यांनी मनोगत व्यक्त केले.

प्रसंगी उपप्राचार्य प्रा. अनिल जगताप, राष्ट्रीय सेवा योजना जिल्हा समन्वयक डॉ. सविता कुलकर्णी, कार्यक्रम अधिकारी प्रा. नितीन लगड, डॉ. नाना झगडे, सरपंच संदीप यादव, उपसरपंच भाग्यश्री शिंदे, जीवन शिंदे, प्रकाश शिंदे, अमोल शिंदे, ज्योती शिंदे, सुष्मा भोसले, अनिता शिंदे, मोहिनी कुदळे, शामराव शिंदे, शांताराम राणे, सचिन सातभाई, बाळासाहेब शिंदे, प्रा. गौरव शेलार, डॉ. अंजू मुंडे, डॉ. वंदना सोनवले, प्रा. ऋषिकेश मोरे, प्रा. गणपत आवटे आदी उपस्थित होते. कार्यक्रमाचे प्रास्ताविक डॉ. सविता कुलकर्णी यांनी केले. सूत्रसंचालन प्रा. नितीन लगड यांनी केले तर आभार प्रा. अंजू मुंडे यांनी मानले.

व्यायाम, सूर्यनमस्कार, ओंकार आणि प्राणायाम-विद्यार्थ्यांचे आरोग्य उत्तम रहावे, त्यांना शारिरीक व मानसिक स्वास्थ्य लाभावे, रोगप्रतिकार शक्ती वाढावी या उद्देशाने दररोज सकाळी सूर्यनमस्कार, ओंकार व प्राणायाम घेतले जात असे.

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# 63 Title: A Study of Impact of Socio-Economics Status on Development of Village Pingori Taluka Purandar Dist. Pune

Author: Dr. Kulkarni S. S.

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## **A STUDY OF IMPACT OF SOCIO-ECONOMIC STATUS ON DEVELOPMENT OF VILLAGE PINGORI TAL PURANDAR DIST.**

**PUNE**

**Dr. Savita Kulkarni**

**Dr. Ganesh Gandhile**

**Prof. Shital Gaikwad**

Department of Geography

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### **Introduction:**

A socioeconomic survey is a crucial instrument for compiling thorough data regarding the social and economic circumstances of a place. This information helps you visualize the situation at the site. Pingori village, located in Purandhar tehsil of Pune district, plays a vital role as a gram panchayat. To better understand the dynamics of the village, this research delves into various aspects, including socio-economic conditions, literacy rates, and the village's geographical characteristics. The demographic profile of Pingori, based on Census 2011 data, reveals a total population of 1,112 people, with a literacy rate of 75.27%. Further exploration of gender-specific literacy rates and household distribution provides insights into education and living conditions.

### **Aims and Objectives of the village survey:**

- To understand the socio and economic condition of the village.
- To study the land use and land cover pattern of the village.
- To know the available energy resources in the village.

### **Methodology:**

A socio-economic survey was done in village Pingori by NSS volunteers and students from the Geography Department in order to better understand the village's socioeconomic characteristics, land use and land cover patterns, livestock breeding, settlement morphology, and living conditions. A household survey was conducted, and

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# 64 Title: A Study of Soil and Water Analysis with Physico-Chemical Parameters at Village Pingori Dist. Pune

Author: Prof. Gaikwad S. V.

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## A STUDY OF SOIL AND WATER ANALYSIS WITH PHYSICO-CHEMICAL PARAMETERS AT VILLAGE PINGORI, DIST. PUNE

Miss. Gaikwad S.V

Prof. Gadave K.M

Prof. Nikam L.K

Department of Chemistry

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Introduction:

Water is an essential resource for Water is an essential resource for of human beings. In urban areas, the disposal of industrial wastes or effluents due to human negligence and other wastes in rivers and lakes mostly contribute to the poor quality of river water. Most of the rivers in the cities of the developing countries are extremely contaminated by effluents discharged from the industries. Asian countries are facing rapid industrial growth and it is because of this environmental conservation is a difficult task to achieve. Water quality is described in terms of its physical, chemical and biological factors. Physicochemical factors like temperature, TDS, hardness, pH and conductivity varies with changes in seasonal variations, geographic areas and mostly with anthropogenic activities. Water quality guidelines mostly provide information about water quality parameters and also give an idea about ecological relevant toxicological threshold values in order to conserve water utilization and also flora and fauna inhabiting the aquatic ecosystems. Important physical and chemical parameters affecting the environment of aquatic ecosystems are temperature, salinity, pH, rainfall CO etc. Contamination of the aquatic ecosystems occurs when humans add either by direct discharge into water bodies or indirectly through atmospheric or water management practices and other anthropogenic activities, substances or energy that lead to deleterious effects such, harm to living resources, hindrances to aquatic activities such as fishing, hazards to human health, impairment of water quality with regards to its use in agriculture.

The Physicochemical properties of water have been used by pingori village to evaluate the water quality of a dam, bore well and well. Therefore, analysis of the physicochemical parameters of both water and soil is quite necessary to better understand the ecological and environmental pathways of aquatic resources. Thus, the present study was conducted to determine the physicochemical parameters of water and soil obtained from Pingori village Pune district in order to testing soil prior and

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## A ANALYTICAL STUDY OF ENERGY SOURCES AND THEIR UTILIZATION BY CITIZENS AT VILLAGE PINGORI, DIST PUNE

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### Introduction:

Energy is defined as the ability to do work. It may exist in potential, kinetic, thermal, electrical, chemical, nuclear, or other various forms. Modern civilization is possible because people have learned how to change energy from one form to another and then use it to do work.

There are numerous sources of energy. Energy can be classified into several types based on the following criteria:

- Renewable and Non-Renewable energy, • Primary and Secondary energy,
- Commercial and Non-commercial energy

### Renewable and Non-Renewable energy:

Renewable resources of energy can be naturally replenished and are available plentiful in nature. These resources are sustainable and are safe for environment. **There are five major renewable energy sources:**

- Solar energy from the sun
- Geothermal energy from heat inside the earth
- Wind energy
- Biomass from plants
- Hydropower from flowing water

Renewable energy sources are naturally replenished. Day after day, the sun shines, plants grow, wind blows, and rivers flow. A Non-renewable resource is natural resource that are found underneath the earth. This type of energy resources do not replenish at the same speed at which it is used. They take millions of years to replenish. The main examples of non-renewable resources are

- Natural gas, coal, petroleum, nuclear energy of hydrocarbon gas liquid
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## A STUDY OF ANIMAL DIVERSITY IN PINGORI VILLAGE DIST. PUNE

Dr. Anju Mundhe\* Dr. Mahesh A Joshi, Dr. Sharad Giramkar, Tejas Lohkare,  
Rushikesh Patil

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PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Abstract:

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. This village is located at eastern portion of the Western Ghats. Animal survey was performed at Pingori in winter season. Observed animals were photographed and identified by using identification keys. A checklist of 44 animals was prepared by a walking survey method. Out of these, 15 animals belong to 14 families of Phylum Arthropoda, while 26 animals belong to 22 families of Phylum Chordata. Around 22 bird species resident in the Pingori village. It indicates the importance of the village as an ecosystem.

**Keywords:** Pingori, Village survey, Biodiversity, Animals, Birds, Insects

### Introduction:

Western Ghats is the biodiversity-rich region of India and Pingori is located in its eastern portion. We expected lot of biodiversity, as this located to eastern portion of Western Ghats. Agriculture is the main source of the people living in this village. The common animals recorded in this region are insects like butterflies, honeybees, wild deer, rabbit, Indian rat snake, house sparrow, common crow etc. Biodiversity is necessary for all species on Earth, including humans, to function properly. We cannot have healthy ecosystems that give us with the air we breathe and the food we consume without a diverse range of animals, plants, and microorganisms (Giramkar et.al 2022). Animal biodiversity is essential to maintain the stability of the ecosystem. To help protect the diversity, there is a need to generate a checklist of animals. Hence the objective of the present study was to prepare a checklist of animal diversity in the study area.

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# 67. Title: A Study of Biodiversity of Medicinal Plants at Pingori Village Dist. Pune

Author: Dr. Waske S. A

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## A STUDY OF BIODIVERSITY OF MEDICINAL PLANTS AT PINGORI VILLAGE DIST. PUNE

Dr. Waske S. A., Prof. Kadam T. R., Prof. Dr. Ranadive K. R., Prof. Dr. Danai-Tambhale S. D., Miss. Jabhulkar Vaishnavi

Department of Botany

PDEA's Annasaheb Magar Mahavidyalaya Hadapsar, Pune-28

### Abstract:

The rural folks in Pingori village sustain their healthcare on plant-based drugs for combating different ailments and disorders. They mostly belong to economically weaker sections of the society and the modern healthcare amenities are beyond their reach. The objective of the present investigation was to document ethnomedicinal claims of some important medicinal plants employed by the various rural folks in Pingori village. The plant has been extensively studied for its medicinal uses. The field survey was carried out in region Pingori near Purandar Fort. The present study was focused on collection of important medicinal plant in Pingori region. In the present study 35 different medicinal plants species from different 23 families were recorded. The fast rate of acculturation in the area reinforces the need for conservation of their traditional treasure of medicinal knowledge. This areas studied is a treasure house of medicinal plants.

**Key words:** Medicinal plant, Pingori, Traditional medicine.

### Introduction:

Mother nature is a best source of many medicines. Medicinal plants have been used by humans for centuries in folklore medicine (Sermakkani and Thangapandian 2012). Documenting the indigenous knowledge through ethnobotanical studies is important for the conservation and utilization of biological resources. Several active compounds have been discovered from plants on the basis of ethno botanical information and are used directly as patented drugs (Carney *et.al.* 1999). According to floral statistics of India 2017 hosted by Botanical Survey of India, Kolkata, West Bengal, a total of 2,68,600 flowering plants worldwide among them 18,386 (6.84% of world) existed in India. In India, approximately 3000 plants species are known to have their medicinal properties (Prakasha *et.al.* 2010), in another reports a total of 2500 plants are of traditional

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# 68. Title: A Study of Soil and Water from Microbial Analysis and Potability Testing from Village Pingori, Maharashtra, India

Author: Dr. Ghorpade N. L.

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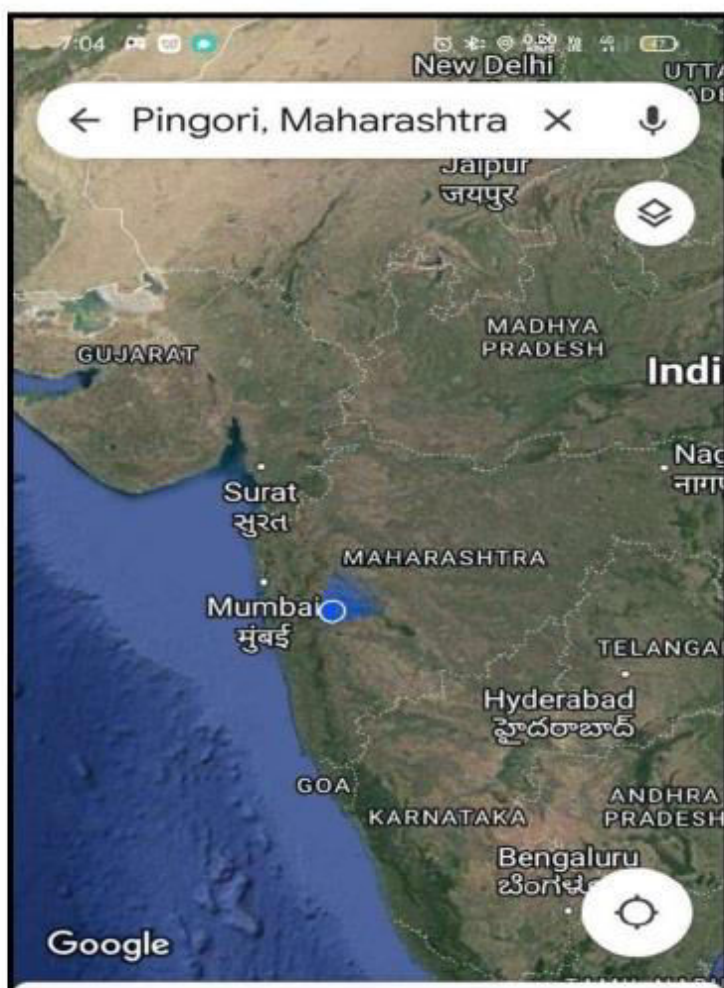
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Nitin L. Ghorpade, Neha Nitin Patil, Urmila S. Dhangar, Poonam D. Jagtap.

Department of Microbiology

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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# 69. Title: A Study of Solid Waste Management from Village Pingori Dist. Pune

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Author: Kamshetty A. O.

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### A STUDY OF SOLID WASTE MANAGEMENT FROM VILLAGE PINGORI, DIST PUNE

**Kamshetty A.O, Patil N.N, Shinde S. R, Nitin L. Ghorpade**  
Department of Environmental Science  
PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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#### **Abstract:**

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. It is situated 31km away from sub-district headquarter Sasvad (tehsildar office) and 61km away from district headquarter Pune. As per 2009 stats, Pingori village is also a gram panchayat. The total geographical area of village is 1705 hectares. Pingori has a total population of 1,112 peoples, out of which male population is 542 while female population is 570. Literacy rate of pingori village is 75.27% out of which 81.92% males and 68.95% females are literate. There are about 276 houses in pingori village. The Indian Owl Festival, the country's first owl fest, was held at Pingori village in Purandar taluka of Pune on 29th November 2018. The two-day festival, organised by Ela Foundation, an NGO working towards nature education and conservation, will give information on owl conservation and feature art forms like pictures, paintings, lanterns, lamp shades, posters, origami, stitched articles, poems and stories on owls. The present study investigated about the Solid waste management n of the Pingori village by using questionnaires.

**Keywords:** Pingori, solid waste management, Questionnaire.

#### **Introduction:**

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. It is situated 31km away from sub-district headquarter Sasvad (tehsildar office) and 61km away from district headquarter Pune. As per 2009 stats, Pingori village is also a gram panchayat. Saswad is the nearest town to Pingori for all major economic activities. Pingori has a total population of 1,112 peoples, out of which male population is 542 while female population is 570. Literacy rate of pingori village is 75.27% out of which 81.92% males and 68.95% females are literate. There are about 276 houses in pingori

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Author: Prof. Dasgupta S. A.

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**“A STUDY OF TOURISM POTENTIAL IN PINGORI VILLAGE: A FOCUS ON TOURISM, ANIMAL WELLNESS AND EDUCATIONAL TOURS WITH THE CONTRIBUTION OF ELA FOUNDATION.”**

Prof. Shilpi Dasgupta

Prof. Revati Newaskar

Prof. Avinash Rathod

B.voc (Tourism and Service Industry)

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

## **Introduction:**

A hidden treasure of cultural diversity and unrealized economic potential is waiting to be discovered in Pingori Village, hidden away in the tranquil surroundings. This study aims to reveal the hidden tourism potential in the shared domains of Pingori's sustainable tourism. The community, full of vibrant rituals and behaviors, makes for a fascinating case study on how carefully thought-out tourism initiatives can support long-term socioeconomic growth.

The nature tourism potential of the village, which has attractive mountains and a reliable source of agricultural products, is capable of impacting the local community's interest. Cultural tourism potential owned by the village with attractive tourist performances on a regular and well-scheduled basis and the ability of the village to show dance performances that reveal their identity can impact the village's economic sustainability. The village green tourism development project is set in the finalization stage of project planning by considering the project completion time.

## **Aims and objectives:**

- Evaluate the overall potential of Pingori Village for sustainable tourism, considering environmental, social, and economic factors.
- Examine the contribution of Ela Foundation in promoting animal wellness within the tourism framework.

## **Methodology:**

Gather both primary and secondary data to analyze the subject. Here, we carry out a survey.

1. Maps and Surveys: Identify the religious centers and animal husbandry methods that are currently in use in Pingori village by doing a thorough survey. Make maps to illustrate important places and their tourism potential.

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# 71. Title: Current Situations of Political Status in Pingori Village & Participation of Women in Politics Activity

Author: Dr. Narangalkar R. R.

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# 72. Title: A Analytical Study Sources of Family Income in Pingori Village

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# 72.Title: A Analytical Study Sources of Family Income in Pingori Village

Author: Shelar G. D.

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## पिंगोरी गावातील कौटुंबिक उत्पन्नाच्या स्रोतांचा चिकित्सक अभ्यास

प्रा. गौरव दत्तात्रय शेलार

प्रा. प्रतीक अंदाज कामटे

वाणिज्य विभाग

पु.नि.शि.मंडळाचे अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे.

### प्रस्तावना :

पुरंदर तालुक्यातील पिंगोरी हे छोटेसे गाव साधारण गावची लोकसंख्या १११२ यामध्ये २७६ कुटुंब आहेत तर पुरुष ५४२ व स्त्रियांची संख्या ५७० एवढी आहे. या गावामध्ये राहणाऱ्या कुटुंबांचा उदरनिर्वाह करण्यासाठी प्रत्येक कुटुंबातील व्यक्ती पुणे, मुंबई यांसारख्या शहरांमध्ये नोकरी व्यवसाय निमित्त गेलेले आहेत. गावात असलेले कुटुंबातील इतर व्यक्ती आपल्याच गावांमध्ये शेती व शेतीपूरक व्यवसाय जसे की दुग्ध व्यवसाय, कुक्कुटपालन, पिठाची गिरणी त्याचबरोबर शेतातील भाजीपाला विकून आपल्या कुटुंबाचा आर्थिक गरजा भागवण्याचा प्रयत्न करत असताना दिसून येतात. तसेच या गावाच्या जवळीलच पुरंदर जेजुरी यांसारख्या गावांमध्ये सुद्धा या गावातील लोक जाऊन मिळेल तो व्यवसाय करत आहे.

### उद्दिष्टे :

१. पिंगोरी गावातील कौटुंबिक उत्पन्नाच्या स्रोतांचा अभ्यास करणे
२. शेती व पूरक व्यवसाय यामध्ये असणाऱ्या उत्पन्नाच्या संधीचा अभ्यास करणे.

### संशोधन पद्धती:

प्रस्तुत संशोधन समस्या ही वर्तमान काळाची निगडित असल्यामुळे संशोधक वर्णनात्मक संशोधन पद्धतीचा अवलंब करणार आहे. शोधन पद्धती संशोधन हा एक प्रवाह आहे. कारण संशोधन कार्य ही निरंतर चालणारी प्रक्रिया आहे. एखाद्या समस्येचे निराकरण समाधानकारक उत्तर शोधण्यासाठी केलेल्या संशोधनातून अनेक दुसऱ्या अपेक्षित समस्या निर्माण होतात, आणि त्यासाठी पुन्हा संशोधन करावे लागते .

अशा प्रकारे संशोधन हा सतत नव्याने शोध घेण्याचा एक प्रकार व संघटित प्रयत्न आहे. प्रस्तुत संशोधनासाठी साधी यादृच्छिक (Random Sampling Method) व उद्देश पूर्ण नमुना निवड (Purposive Sampling Method) चा वापर करून संशोधन व तथ्य संकलन करण्यात येणार आहे.

### विश्लेषण :

गावातील एकूण कुटुंब ची संख्या २७६ एवढी आहे. यामधील २०% कुटुंबांचे आर्थिक परिस्थिती चांगल्या प्रकारे आहे तर ५०% कुटुंबांची आर्थिक परिस्थिती मध्यम स्वरूपाची आहे. उर्वरित ३० % कुटुंबांची आर्थिक

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# 73. Title: A Study of Impact of Socio-Economics Status on Development of Village Pingori Taluka Purandar Dist. Pune

Author: Gaikwad S. S

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## A STUDY OF IMPACT OF SOCIO-ECONOMIC STATUS ON DEVELOPMENT OF VILLAGE PINGORI TAL PURANDAR DIST. PUNE

Dr. Savita Kulkarni

Dr. Ganesh Gandhile

Prof. Shital Gaikwad

Department of Geography

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Introduction:

A socioeconomic survey is a crucial instrument for compiling thorough data regarding the social and economic circumstances of a place. This information helps you visualize the situation at the site. Pingori village, located in Purandhar tehsil of Pune district, plays a vital role as a gram panchayat. To better understand the dynamics of the village, this research delves into various aspects, including socio-economic conditions, literacy rates, and the village's geographical characteristics. The demographic profile of Pingori, based on Census 2011 data, reveals a total population of 1,112 people, with a literacy rate of 75.27%. Further exploration of gender-specific literacy rates and household distribution provides insights into education and living conditions.

### Aims and Objectives of the village survey:

- To understand the socio and economic condition of the village.
- To study the land use and land cover pattern of the village.
- To know the available energy resources in the village.

### Methodology:

A socio-economic survey was done in village Pingori by NSS volunteers and students from the Geography Department in order to better understand the village's socioeconomic characteristics, land use and land cover patterns, livestock breeding, settlement morphology, and living conditions. A household survey was conducted, and primary data was obtained from 35 houses. GPS positions were used to record the locations of 10 houses. Photographs and GPS surveys were carried out. Questionnaires are used to collect information about governmental issues, demography, lifestyle, and

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## A STUDY OF SOIL AND WATER ANALYSIS WITH PHYSICO-CHEMICAL PARAMETERS AT VILLAGE PINGORI, DIST. PUNE

Miss. Gaikwad S.V

Prof. Gadave K.M

Prof. Nikam L.K

Department of Chemistry

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

### Introduction:

Water is an essential resource for Water is an essential resource for of human beings. In urban areas, the disposal of industrial wastes or effluents due to human negligence and other wastes in rivers and lakes mostly contribute to the poor quality of river water. Most of the rivers in the cities of the developing countries are extremely contaminated by effluents discharged from the industries. Asian countries are facing rapid industrial growth and it is because of this environmental conservation is a difficult task to achieve Water quality is described in term of its physical, chemical and biological factors. Physicochemical factors like temperature, TDS, hardness, pH and conductivity varies with changes in seasonal variations, geographic areas and mostly with anthropogenic activities. Water quality guidelines mostly provide information about water quality parameters and also give an idea about ecological relevant toxicological threshold values in order to conserve water utilization and also flora and fauna inhabiting the aquatic ecosystems. Important physical and chemical parameters affecting the environment of aquatic ecosystems are temperature, salinity, pH, rainfall CO etc. Contamination of the aquatic ecosystems occurs when humans add either by direct discharge into water bodies or indirectly through atmospheric or water management practices and other anthropogenic activities, substances or energy that lead to deleterious effects such, harm to living resources, hindrances to aquatic activities such as fishing, hazards to human health, impairment of water quality with regards to its use in agriculture.

The Physicochemical properties of water have been used by pingori village to evaluate the water quality of a dam, bore well and well. Therefore, analysis of the physicochemical parameters of both water and soil is quite necessary to better understand the ecological and environmental pathways of aquatic resources. Thus, the

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## A ANALYTICAL STUDY OF ENERGY SOURCES AND THEIR UTILIZATION BY CITIZENS AT VILLAGE PINGORI, DIST PUNE

Miss. Khare T. P. Prof. Shah S. S. Prof. Mene R. U. Prof. Joshi R. P.

Department of Physics

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Introduction:

Energy is defined as the ability to do work. It may exist in potential, kinetic, thermal, electrical, chemical, nuclear, or other various forms. Modern civilization is possible because people have learned how to change energy from one form to another and then use it to do work.

There are numerous sources of energy. Energy can be classified into several types based on the following criteria:

- Renewable and Non-Renewable energy, • Primary and Secondary energy,
- Commercial and Non-commercial energy

### ✚ Renewable and Non-Renewable energy:

Renewable resources of energy can be naturally replenished and are available plentiful in nature. These resources are sustainable and are safe for environment. **There are five major renewable energy sources:**

- Solar energy from the sun
- Geothermal energy from heat inside the earth
- Wind energy
- Biomass from plants
- Hydropower from flowing water

Renewable energy sources are naturally replenished. Day after day, the sun shines, plants grow, wind blows, and rivers flow. A Non-renewable resource is natural resource that are found underneath the earth. This type of energy resources do not replenish at the same speed at which it is used. They take millions of years to replenish.

The main examples of non-renewable resources are

- Natural gas, coal, petroleum, nuclear energy of hydrocarbon gas liquid

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Author: Dr. Joshi R. P.

## Book chapter

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### A ANALYTICAL STUDY OF ENERGY SOURCES AND THEIR UTILIZATION BY CITIZENS AT VILLAGE PINGORI, DIST PUNE

Miss. Khare T. P. Prof. Shah S. S. Prof. Mene R. U. Prof. Joshi R. P.

Department of Physics

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

#### Introduction:

Energy is defined as the ability to do work. It may exist in potential, kinetic, thermal, electrical, chemical, nuclear, or other various forms. Modern civilization is possible because people have learned how to change energy from one form to another and then use it to do work.

There are numerous sources of energy. Energy can be classified into several types based on the following criteria:

- Renewable and Non-Renewable energy, • Primary and Secondary energy,
- Commercial and Non-commercial energy

#### Renewable and Non-Renewable energy:

Renewable resources of energy can be naturally replenished and are available plentiful in nature. These resources are sustainable and are safe for environment. **There are five major renewable energy sources:**

- Solar energy from the sun
- Geothermal energy from heat inside the earth
- Wind energy
- Biomass from plants
- Hydropower from flowing water

Renewable energy sources are naturally replenished. Day after day, the sun shines, plants grow, wind blows, and rivers flow. A Non-renewable resource is natural resources that are found underneath the earth. This type of energy resources do not replenish at the same speed at which it is used. They take millions of years to replenish.

The main examples of non-renewable resources are

- Natural gas, coal, petroleum, nuclear energy of hydrocarbon gas liquid

Use of non-renewable resources is harmful for environment & once resources are used they are gone forever.

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# 77. Title: A Study of Biodiversity of Medicinal Plants at Pingori Village Dist. Pune

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## A STUDY OF BIODIVERSITY OF MEDICINAL PLANTS AT PINGORI VILLAGE DIST. PUNE

Dr. Waske S. A., Prof. Kadam T. R., Prof. Dr. Ranadive K. R., Prof. Dr. Danai-  
Tambhale S. D., Miss. Jabhulkar Vaishnavi

Department of Botany

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

### Abstract:

The rural folks in Pingori village sustain their healthcare on plant-based drugs for combating different ailments and disorders. They mostly belong to economically weaker sections of the society and the modern healthcare amenities are beyond their reach. The objective of the present investigation was to document ethnomedicinal claims of some important medicinal plants employed by the various rural folks in Pingori village. The plant has been extensively studied for its medicinal uses. The field survey was carried out in region Pingori near Purandar Fort. The present study was focused on collection of important medicinal plant in Pingori region. In the present study 35 different medicinal plants species from different 23 families were recorded. The fast rate of acculturation in the area reinforces the need for conservation of their traditional treasure of medicinal knowledge. This areas studied is a treasure house of medicinal plants.

**Key words:** Medicinal plant, Pingori, Traditional medicine.

### Introduction:

Mother nature is a best source of many medicines. Medicinal plants have been used by humans for centuries in folklore medicine (Sermakkani and Thangapandian 2012). Documenting the indigenous knowledge through ethnobotanical studies is important for the conservation and utilization of biological resources. Several active compounds have been discovered from plants on the basis of ethno botanical information and are used directly as patented drugs (Carney *et.al.*1999). According to floral statistics of India 2017 hosted by Botanical Survey of India, Kolkata, West Bengal, a total of 2,68,600 flowering plants worldwide among them 18,386 (6.84% of world) existed in India. In India, approximately 3000 plants species are known to have their medicinal properties (Prakasha *et.al.* 2010), in another reports a total of 2500 plants are of traditional

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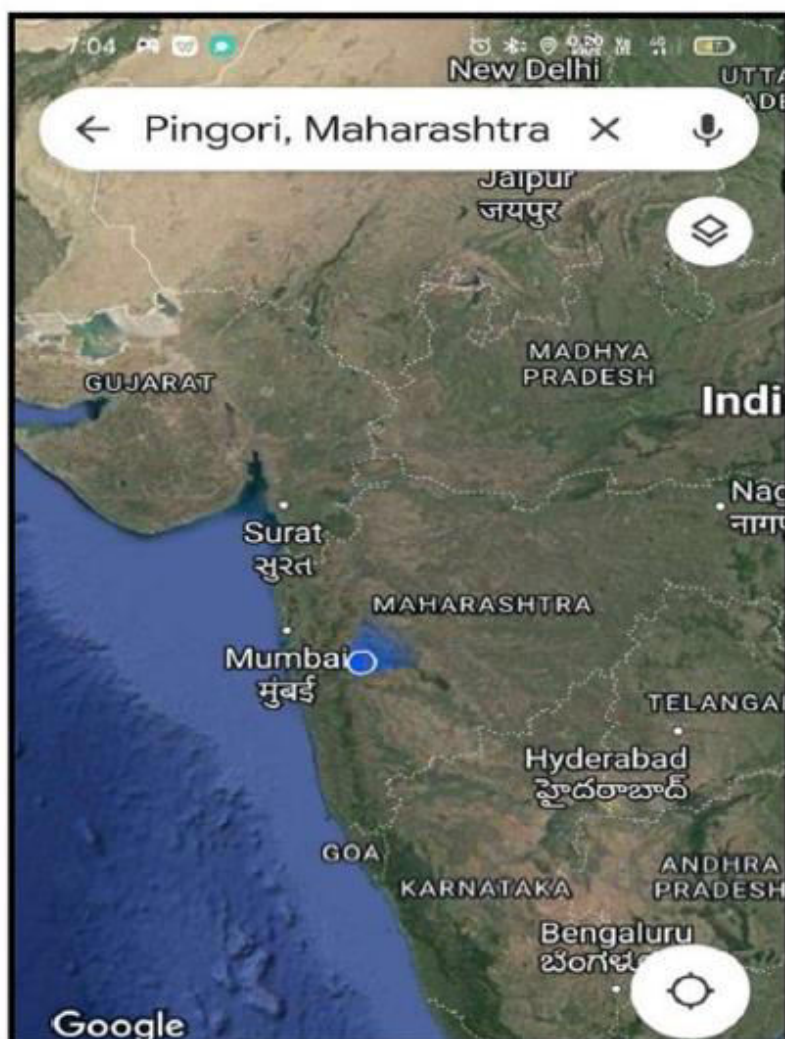
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Department of Microbiology

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## A STUDY OF SOLID WASTE MANAGEMENT FROM VILLAGE PINGORI, DIST PUNE

Kamashetty A.O, Patil N.N, Shinde S. R, Nitin L. Ghorpade

Department of Environmental Science

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Abstract:

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. It is situated 31km away from sub-district headquarter Sasvad (tehsildar office) and 61km away from district headquarter Pune. As per 2009 stats, Pingori village is also a gram panchayat. The total geographical area of village is 1705 hectares. Pingori has a total population of 1,112 peoples, out of which male population is 542 while female population is 570. Literacy rate of pingori village is 75.27% out of which 81.92% males and 68.95% females are literate. There are about 276 houses in pingori village. The Indian Owl Festival, the country's first owl fest, was held at Pingori village in Purandar taluka of Pune on 29th November 2018. The two-day festival, organised by Ela Foundation, an NGO working towards nature education and conservation, will give information on owl conservation and feature art forms like pictures, paintings, lanterns, lamp shades, posters, origami, stitched articles, poems and stories on owls. the present study investigated about the Solid waste management n of the Pingori village by using questionnaires.

**Keywords:** Pingori, solid waste management, Questionnaire.

### Introduction:

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. It is situated 31km away from sub-district headquarter Sasvad (tehsildar office) and 61km away from district headquarter Pune. As per 2009 stats, Pingori village is also a gram panchayat. Saswad is the nearest town to Pingori for all major economic activities. Pingori has a total population of 1,112 peoples, out of which male population is 542 while female population is 570. Literacy rate of pingori village is 75.27% out of which 81.92% males and 68.95% females are literate. There are about 276 houses in pingori

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**Book chapter**

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## **“A STUDY OF TOURISM POTENTIAL IN PINGORI VILLAGE: A FOCUS ON TOURISM, ANIMAL WELLNESS AND EDUCATIONAL TOURS WITH THE CONTRIBUTION OF ELA FOUNDATION.”**

**Prof. Shilpi Dasgupta**

**Prof. Revati Newaskar**

**Prof. Avinash Rathod**

B.voc (Tourism and Service Industry)

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### **Introduction:**

A hidden treasure of cultural diversity and unrealized economic potential is waiting to be discovered in Pingori Village, hidden away in the tranquil surroundings. This study aims to reveal the hidden tourism potential in the shared domains of Pingori's sustainable tourism. The community, full of vibrant rituals and behaviors, makes for a fascinating case study on how carefully thought-out tourism initiatives can support long-term socioeconomic growth.

The nature tourism potential of the village, which has attractive mountains and a reliable source of agricultural products, is capable of impacting the local community's interest. Cultural tourism potential owned by the village with attractive tourist performances on a regular and well-scheduled basis and the ability of the village to show dance performances that reveal their identity can impact the village's economic sustainability. The village green tourism development project is set in the finalization stage of project planning by considering the project completion time.

### **Aims and objectives:**

- Evaluate the overall potential of Pingori Village for sustainable tourism, considering environmental, social, and economic factors.
- Examine the contribution of Ela Foundation in promoting animal wellness within the tourism framework.

### **Methodology:**

Gather both primary and secondary data to analyze the subject. Here, we carry out a survey.

1. **Maps and Surveys:** Identify the religious centers and animal husbandry methods that are currently in use in Pingori village by doing a thorough survey. Make maps to illustrate important places and their tourism potential.

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# 81. Title: Current Situations of Political Status in Pingori Village & Participation of Women in Politics Activity

Prof. Lagad N.

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डॉ. राहुल नरंगळकर

प्रा. नितिन लगड

प्रा. मनिषा जरक

राज्यशास्त्र विभाग

पु.नि.शि.मंडळाचे अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे.

आधुनिक जगातील सर्वात मोठी लोकशाही मानली जाणाऱ्या भारतीय राज्यव्यवस्थेने प्रारंभीपासूनच स्त्री आणि पुरुषांना समान राजकीय आणि नागरी हक्क प्रदान केले आहेत. लोकशाही मुल्यांमध्ये लोकशाहीत स्वातंत्र्य, समता, बंधुत्व, न्याय, स्वीकार्यता आणि सर्वसमावेशकता या मुल्यांचा समावेश होतो. सामान्य नागरिकांना दर्जेदार आणि सन्मानाने जगण्याची हमी दिली जाते. लोकशाहीत कायद्याचे अधिराज्य, कायद्यासमोर सर्वजण समान आणि कायद्याचे सर्वांना समान संरक्षण ही तत्वे प्रमाणभूत मानली जातात. या तत्वांना अनुसरूनच भारतीय राज्यव्यवस्थेने आपल्या सर्व नागरिकांना सामाजिक, आर्थिक आणि राजनैतिक न्याय मिळवून देण्याची हमी राज्यघटनेच्या सरनाम्यात (Preamble of Indian Constitution) दिली आहे. हे ध्येय गाठण्यासाठी ज्या विभिन्न उपाय योजना राबविल्या गेल्या, त्यातील ७३ वे आणि ७४ वे संविधान विशोधन हे इतर मागासवर्गीय जातींना (OBC) आणि सर्व स्तरातील स्त्रियांना राजनैतिक न्याय मिळवून देण्यासाठी केले गेलेले व्यापक घटनात्मक प्रयत्न म्हणता येईल.

७३ व्या संविधान विशोधनाने ग्रामपातळीवरील अनुसूचित जाती-जमाती, इतर मागासवर्गीय जाती आणि सर्व जाती समूहातील स्त्रियांना जी व्यापक संधी गावाच्या राजकीय प्रक्रियेत चाबण्याची मिळाली; तिचा कितपत लाभ त्यांना घेता आला? राजकीय प्रक्रियेत चाबत असताना त्यांना कोणत्या अडचणींना तोंड द्यावे लागते? गावची प्रतिकूल परिस्थिती या आरक्षण धोरणामुळे अनुकूलतेत परिवर्तित होत आहे की नाही? राजकीय प्रक्रियेविषयची सजगता त्यांच्यात कितपत रुजली आहे? आदि प्रश्नांच्या अनुषंगाने प्रस्तुत अभ्यासाची दिशा निश्चित करण्यात आली. एखाद्या गावातील सामाजिक, आर्थिक, राजकीय परिस्थितीबद्दल सर्वसमावेशक माहिती गोळा करण्यासाठी राजकीय सर्वेक्षण हे एक महत्वाचे साधन आहे. ही माहिती स्थानाचे राजकीय दृश्यमान करण्यास मदत करते. राजकीय माहितीचे मूल्यमापन तसेच राजकीय चर्चा केल्यानंतर गावातील विकास, धोरणात्मक चौकट तयार केली जाऊ शकते. लोकांशी साधलेला संवाद हा त्यांच्या समस्या समजून घेण्यासाठी जसा महत्वाचा असतो; तसाच तो राजकीय धोरणनिर्मितीसाठी देखील महत्त्वपूर्ण ठरतो.

राजकीय सहभाग या शब्दाचा अर्थ खूप व्यापक आहे. तो केवळ 'मतांच्या अधिकाराशी' नसून तो निर्णय निर्धारण, राजकीय सक्रियता, राजकीय चेतना आणि राजकीय आत्मभान निर्मिती इत्यादींशी संबंधित आहे. राजकीय सहभाग जसा सार्वत्रिक प्रौढ मताधिकारातून अभिव्यक्त होतो तसा तो राजकीय चर्चा, टीका-टिपणी, सभा, मोर्चा, आंदोलने अशा इतर अनेक कृती आणि माध्यमातून आविष्कृत होत असतो. भारतीय संविधानाने भेदभाव विरहित राजकीय सहभागाच्या संधी उपलब्ध करून दिलेल्या असल्यातरी इथली उतरंडयुक्त सामाजिक संरचना आणि तिला अनुसरून दृढ असलेली भेदभावयुक्त संस्कृती ही विषमताजन्य परिस्थितीत जगणाऱ्या

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## 82. Title: A Analytical Study Sources of Family Income in Pingori Village

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## पिंगोरी गावातील कौटुंबिक उत्पन्नाच्या स्रोतांचा चिकित्सक अभ्यास

प्रा. गौरव दत्तात्रय शेलार

प्रा. प्रतीक अंदाज कामटे

वाणिज्य विभाग

पु.नि.शि.मंडळाचे अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे.

### प्रस्तावना :

पुरंदर तालुक्यातील पिंगोरी हे छोटेसे गाव साधारण गावची लोकसंख्या १११२ यामध्ये २७६ कुटुंब आहेत तर पुरुष ५४२ व स्त्रियांची संख्या ५७० एवढी आहे. या गावामध्ये राहणाऱ्या कुटुंबाचा उदरनिर्वाह करण्यासाठी प्रत्येक कुटुंबातील व्यक्ती पुणे, मुंबई यांसारख्या शहरांमध्ये नोकरी व्यवसाय निमित्त गेलेले आहेत. गावात असलेले कुटुंबातील इतर व्यक्ती आपल्याच गावांमध्ये शेती व शेतीपूरक व्यवसाय जसे की दुग्ध व्यवसाय, कुक्कुटपालन, पिठाची गिरणी त्याचबरोबर शेतातील भाजीपाला विकून आपल्या कुटुंबाचा आर्थिक गरजा भागवण्याचा प्रयत्न करत असताना दिसून येतात. तसेच या गावाच्या जवळीलच पुरंदर जेजुरी यांसारख्या गावांमध्ये सुद्धा या गावातील लोक जाऊन मिळेल तो व्यवसाय करत आहे.

### उद्दिष्टे :

१. पिंगोरी गावातील कौटुंबिक उत्पन्नाच्या स्रोतांचा अभ्यास करणे
२. शेती व पूरक व्यवसाय यामध्ये असणाऱ्या उत्पन्नाच्या संधीचा अभ्यास करणे.

### संशोधन पद्धती:

प्रस्तुत संशोधन समस्या ही वर्तमान काळाची निगडित असल्यामुळे संशोधक वर्णनात्मक संशोधन पद्धतीचा अवलंब करणार आहे. शोधन पद्धती संशोधन हा एक प्रवाह आहे. कारण संशोधन कार्य ही निरंतर चालणारी प्रक्रिया आहे. एखाद्या समस्येचे निराकरण समाधानकारक उत्तर शोधण्यासाठी केलेल्या संशोधनातून अनेक दुसऱ्या अपेक्षित समस्या निर्माण होतात, आणि त्यासाठी पुन्हा संशोधन करावे लागते .

अशा प्रकारे संशोधन हा सतत नव्याने शोध घेण्याचा एक प्रकार व संघटित प्रयत्न आहे. प्रस्तुत संशोधनासाठी साधी यादृच्छिक (Random Sampling Method) व उद्देश पूर्ण नमुना निवड (Purposive Sampling Method) चा वापर करून संशोधन व तथ्य संकलन करण्यात येणार आहे.

### विश्लेषण :

गावातील एकूण कुटुंब ची संख्या २७६ एवढी आहे. यामधील २०% कुटुंबांचे आर्थिक परिस्थिती चांगल्या प्रकारे आहे तर ५०% कुटुंबाची आर्थिक परिस्थिती मध्यम स्वरूपाची आहे. उर्वरित ३० % कुटुंबाची आर्थिक

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# 83. Title: A Study of Impact of Socio-Economics Status on Development of Village Pingori Taluka Purandar Dist. Pune

Dr. Gandhile G. D.

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## A STUDY OF IMPACT OF SOCIO-ECONOMIC STATUS ON DEVELOPMENT OF VILLAGE PINGORI TAL PURANDAR DIST. PUNE

Dr. Savita Kulkarni

Dr. Ganesh Gandhile

Prof. Shital Gaikwad

Department of Geography

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

### Introduction:

A socioeconomic survey is a crucial instrument for compiling thorough data regarding the social and economic circumstances of a place. This information helps you visualize the situation at the site. Pingori village, located in Purandhar tehsil of Pune district, plays a vital role as a gram panchayat. To better understand the dynamics of the village, this research delves into various aspects, including socio-economic conditions, literacy rates, and the village's geographical characteristics. The demographic profile of Pingori, based on Census 2011 data, reveals a total population of 1,112 people, with a literacy rate of 75.27%. Further exploration of gender-specific literacy rates and household distribution provides insights into education and living conditions.

### Aims and Objectives of the village survey:

- To understand the socio and economic condition of the village.
- To study the land use and land cover pattern of the village.
- To know the available energy resources in the village.

### Methodology:

A socio-economic survey was done in village Pingori by NSS volunteers and students from the Geography Department in order to better understand the village's socioeconomic characteristics, land use and land cover patterns, livestock breeding, settlement morphology, and living conditions. A household survey was conducted, and primary data was obtained from 35 houses. GPS positions were used to record the locations of 10 houses. Photographs and GPS surveys were carried out. Questionnaires

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## A STUDY OF SOIL AND WATER ANALYSIS WITH PHYSICO-CHEMICAL PARAMETERS AT VILLAGE PINGORI, DIST. PUNE

Miss. Gaikwad S.V

Prof. Gadave K.M

Prof. Nikam L.K

Department of Chemistry

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

### Introduction:

Water is an essential resource for Water is an essential resource for of human beings. In urban areas, the disposal of industrial wastes or effluents due to human negligence and other wastes in rivers and lakes mostly contribute to the poor quality of river water. Most of the rivers in the cities of the developing countries are extremely contaminated by effluents discharged from the industries. Asian countries are facing rapid industrial growth and it is because of this environmental conservation is a difficult task to achieve. Water quality is described in terms of its physical, chemical and biological factors. Physicochemical factors like temperature, TDS, hardness, pH and conductivity varies with changes in seasonal variations, geographic areas and mostly with anthropogenic activities. Water quality guidelines mostly provide information about water quality parameters and also give an idea about ecological relevant toxicological threshold values in order to conserve water utilization and also flora and fauna inhabiting the aquatic ecosystems. Important physical and chemical parameters affecting the environment of aquatic ecosystems are temperature, salinity, pH, rainfall CO<sub>2</sub> etc. Contamination of the aquatic ecosystems occurs when humans add either by direct discharge into water bodies or indirectly through atmospheric or water management practices and other anthropogenic activities, substances or energy that lead to deleterious effects such, harm to living resources, hindrances to aquatic activities such as fishing, hazards to human health, impairment of water quality with regards to its use in agriculture.

The Physicochemical properties of water have been used by pingori village to evaluate the water quality of a dam, bore well and well. Therefore, analysis of the physicochemical parameters of both water and soil is quite necessary to better

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## 85. Title: Analytical Study of Energy Sources and their Utilization by Citizens at Village Pingori, Dist. Pune

Dr. Mene R. U.

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Dr. Mene R. U.

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## A ANALYTICAL STUDY OF ENERGY SOURCES AND THEIR UTILIZATION BY CITIZENS AT VILLAGE PINGORI, DIST PUNE

Miss. Khare T. P. Prof. Shah S. S. Prof. Mene R. U. Prof. Joshi R. P.

Department of Physics

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Introduction:

Energy is defined as the ability to do work. It may exist in potential, kinetic, thermal, electrical, chemical, nuclear, or other various forms. Modern civilization is possible because people have learned how to change energy from one form to another and then use it to do work.

There are numerous sources of energy. Energy can be classified into several types based on the following criteria:

- Renewable and Non-Renewable energy, • Primary and Secondary energy,
- Commercial and Non-commercial energy

### Renewable and Non-Renewable energy:

Renewable resources of energy can be naturally replenished and are available plentiful in nature. These resources are sustainable and are safe for environment. **There are five major renewable energy sources:**

- Solar energy from the sun
- Geothermal energy from heat inside the earth
- Wind energy
- Biomass from plants
- Hydropower from flowing water

Renewable energy sources are naturally replenished. Day after day, the sun shines, plants grow, wind blows, and rivers flow. A Non-renewable resource is natural resources that are found underneath the earth. This type of energy resources do not replenish at the same speed at which it is used. They take millions of years to replenish. The main examples of non-renewable resources are

- Natural gas, coal, petroleum, nuclear energy of hydrocarbon gas liquid
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# 86. Title: A Study of Animal Diversity in Pingori Village of Purandar Tehsil Dist. Pune

Dr. Giramkar S. V.

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Dr. Giramkar S. V.

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**A STUDY OF ANIMAL DIVERSITY IN PINGORI VILLAGE DIST.**

**PUNE**

**Dr. Anju Mundhe\* Dr. Mahesh A Joshi, Dr. Sharad Giramkar, Tejas Lohkare,  
Rushikesh Patil**

Department of Zoology

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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## **Abstract:**

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. This village is located at eastern portion of the Western Ghats. Animal survey was performed at Pingori in winter season. Observed animals were photographed and identified by using identification keys. A checklist of 44 animals was prepared by a walking survey method. Out of these, 15 animals belong to 14 families of Phylum Arthropoda, while 26 animals belong to 22 families of Phylum Chordata. Around 22 bird species resident in the Pingori village. It indicates the importance of the village as an ecosystem.

**Keywords:** Pingori, Village survey, Biodiversity, Animals, Birds, Insects

## **Introduction:**

Western Ghats is the biodiversity-rich region of India and Pingori is located in its eastern portion. We expected lot of biodiversity, as this located to eastern portion of Western Ghats. Agriculture is the main source of the people living in this village. The common animals recorded in this region are insects like butterflies, honeybees, wild deer, rabbit, Indian rat snake, house sparrow, common crow etc. Biodiversity is necessary for all species on Earth, including humans, to function properly. We cannot have healthy ecosystems that give us with the air we breathe and the food we consume without a diverse range of animals, plants, and microorganisms (Giramkar et.al 2022). Animal biodiversity is essential to maintain the stability of the ecosystem. To help protect the diversity, there is a need to generate a checklist of animals. Hence the objective of the present study was to prepare a checklist of animal diversity in the study

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Prof. Dr. Ranadive K. R.

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## A STUDY OF BIODIVERSITY OF MEDICINAL PLANTS AT PINGORI VILLAGE DIST. PUNE

Dr. Waske S. A., Prof. Kadam T. R., Prof. Dr. Ranadive K. R., Prof. Dr. Danai-  
Tambhale S. D., Miss. Jabhulkar Vaishnavi

Department of Botany

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Abstract:

The rural folks in Pingori village sustain their healthcare on plant-based drugs for combating different ailments and disorders. They mostly belong to economically weaker sections of the society and the modern healthcare amenities are beyond their reach. The objective of the present investigation was to document ethnomedicinal claims of some important medicinal plants employed by the various rural folks in Pingori village. The plant has been extensively studied for its medicinal uses. The field survey was carried out in region Pingori near Purandar Fort. The present study was focused on collection of important medicinal plant in Pingori region. In the present study 35 different medicinal plants species from different 23 families were recorded. The fast rate of acculturation in the area reinforces the need for conservation of their traditional treasure of medicinal knowledge. This areas studied is a treasure house of medicinal plants.

**Key words:** Medicinal plant, Pingori, Traditional medicine.

### Introduction:

Mother nature is a best source of many medicines. Medicinal plants have been used by humans for centuries in folklore medicine (Sermakkani and Thangapandian 2012). Documenting the indigenous knowledge through ethnobotanical studies is important for the conservation and utilization of biological resources. Several active compounds have been discovered from plants on the basis of ethno botanical information and are used directly as patented drugs (Carney *et.al.*1999). According to floral statistics of India 2017 hosted by Botanical Survey of India, Kolkata, West Bengal, a total of 2,68,600 flowering plants worldwide among them 18 386 (6.84% of world) existed in India. In

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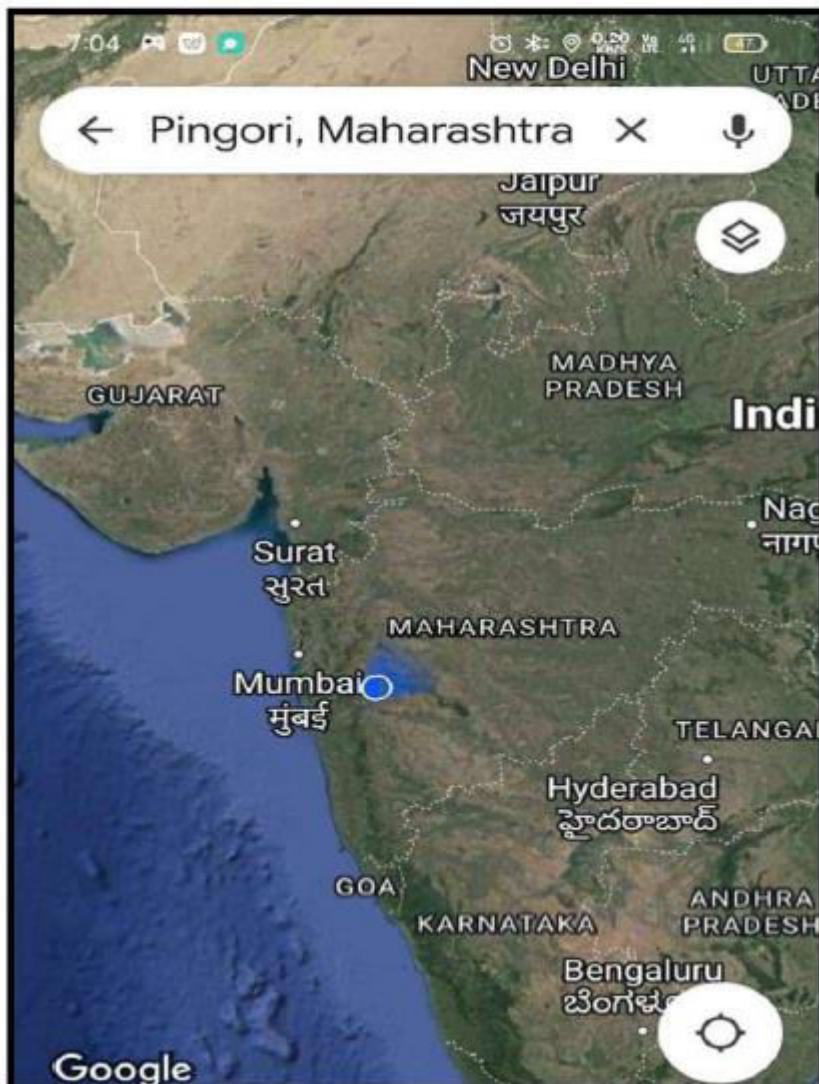
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Nitin L. Ghorpade, Neha Nitin Patil, **Urmila S. Dhangar**, Poonam D. Jagtap.

Department of Microbiology

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## A STUDY OF SOLID WASTE MANAGEMENT FROM VILLAGE PINGORI, DIST PUNE

Kamashetty A.O, Patil N.N, Shinde S. R, Nitin L. Ghorpade

Department of Environmental Science

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

### Abstract:

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. It is situated 31km away from sub-district headquarter Sasvad (tehsildar office) and 61km away from district headquarter Pune. As per 2009 stats, Pingori village is also a gram panchayat. The total geographical area of village is 1705 hectares. Pingori has a total population of 1,112 peoples, out of which male population is 542 while female population is 570. Literacy rate of pingori village is 75.27% out of which 81.92% males and 68.95% females are literate. There are about 276 houses in pingori village. The Indian Owl Festival, the country's first owl fest, was held at Pingori village in Purandar taluka of Pune on 29th November 2018. The two-day festival, organised by Ela Foundation, an NGO working towards nature education and conservation, will give information on owl conservation and feature art forms like pictures, paintings, lanterns, lamp shades, posters, origami, stitched articles, poems and stories on owls. the present study investigated about the Solid waste management n of the Pingori village by using questionnaires.

**Keywords:** Pingori, solid waste management, Questionnaire.

### Introduction:

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. It is situated 31km away from sub-district headquarter Sasvad (tehsildar office) and 61km away from district headquarter Pune. As per 2009 stats, Pingori village is also a gram panchayat. Saswad is the nearest town to Pingori for all major economic activities. Pingori has a total population of 1,112 peoples, out of which male population is 542 while female population is 570. Literacy rate of pingori village is 75.27% out of which 81.92% males and 68.95% females are literate. There are about 276 houses in pingori

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# 90. Title A Study of Tourism Potential in Pingori Village: A Focus on Tourism, Animal Wellness and Educational Tours with the Contribution of ELA Foundation

Prof. Rathod A.

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Book Chapter

Scientific Approach for Rural Development

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**“A STUDY OF TOURISM POTENTIAL IN PINGORI VILLAGE: A FOCUS ON TOURISM, ANIMAL WELLNESS AND EDUCATIONAL TOURS WITH THE CONTRIBUTION OF ELA FOUNDATION.”**

Prof. Shilpi Dasgupta

Prof. Revati Newaskar

Prof. Avinash Rathod

B.voc (Tourism and Service Industry)

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

## **Introduction:**

A hidden treasure of cultural diversity and unrealized economic potential is waiting to be discovered in Pingori Village, hidden away in the tranquil surroundings. This study aims to reveal the hidden tourism potential in the shared domains of Pingori's sustainable tourism. The community, full of vibrant rituals and behaviors, makes for a fascinating case study on how carefully thought-out tourism initiatives can support long-term socioeconomic growth.

The nature tourism potential of the village, which has attractive mountains and a reliable source of agricultural products, is capable of impacting the local community's interest. Cultural tourism potential owned by the village with attractive tourist performances on a regular and well-scheduled basis and the ability of the village to show dance performances that reveal their identity can impact the village's economic sustainability. The village green tourism development project is set in the finalization stage of project planning by considering the project completion time.

## **Aims and objectives:**

- Evaluate the overall potential of Pingori Village for sustainable tourism, considering environmental, social, and economic factors.
- Examine the contribution of Ela Foundation in promoting animal wellness within the tourism framework.

## **Methodology:**

Gather both primary and secondary data to analyze the subject. Here, we carry out a survey.

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# 91. Title: Current Situations of Political Status in Pingori Village & Participation of Women in Politics Activity

Prof. Jarak M.

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डॉ. राहुल नरंगळकर

प्रा. नितिन लगड

प्रा. मनिषा जरक

राज्यशास्त्र विभाग

पु.नि.शि.मंडळाचे अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे.

आधुनिक जगातील सर्वात मोठी लोकशाही मानली जाणाऱ्या भारतीय राज्यव्यवस्थेने प्रारंभीपासूनच स्त्री आणि पुरुषांना समान राजकीय आणि नागरी हक्क प्रदान केले आहेत. लोकशाही मुल्यांन्वये लोकशाहीत स्वातंत्र्य, समता, बंधुत्व, न्याय, स्वीकार्हरता आणि सर्वसमावेशकता या मुल्यांचा समावेश होतो. सामान्य नागरिकांना दर्जेदार आणि सन्मानाने जगण्याची हमी दिली जाते. लोकशाहीत कायद्याचे अधिराज्य, कायद्यासमोर सर्वजन समान आणि कायद्याचे सर्वांना समान संरक्षण ही तत्त्वे प्रमाणभूत मानली जातात. या तत्वांना अनुसरूनच भारतीय राज्यव्यवस्थेने आपल्या सर्व नागरिकांना सामाजिक, आर्थिक आणि राजनैतिक न्याय मिळवून देण्याची हमी राज्यघटनेच्या सरनाम्यात (Preamble of Indian Constitution) दिली आहे. हे ध्येय गाठण्यासाठी ज्या विभिन्न उपाय योजना राबविल्या गेल्या, त्यातील ७३ वे आणि ७४ वे संविधान विशोधन हे इतर मागासवर्गीय जातींना (OBC) आणि सर्व स्तरातील स्त्रियांना राजनैतिक न्याय मिळवून देण्यासाठी केले गेलेले व्यापक घटनात्मक प्रयत्न म्हणता येईल.

७३ व्या संविधान विशोधनाने ग्रामपातळीवरील अनुसूचित जाती-जमाती, इतर मागासवर्गीय जाती आणि सर्व जाती समूहातील स्त्रियांना जी व्यापक संधी गावाच्या राजकीय प्रक्रियेत वावरण्याची मिळाली; तिचा कितपत लाभ त्यांना घेता आला? राजकीय प्रक्रियेत वावरत असताना त्यांना कोणत्या अडचणींना तोंड द्यावे लागते? गावची प्रतिकूल परिस्थिती या आरक्षण धोरणामुळे अनुकूलतेत परिवर्तीत होत आहे की नाही? राजकीय प्रक्रियेविषयची सजगता त्यांच्यात कितपत रुजली आहे? आदि प्रश्नांच्या अनुषंगाने प्रस्तुत अभ्यासाची दिशा निश्चित करण्यात आली. एखाद्या गावातील सामाजिक, आर्थिक, राजकीय परिस्थितीबद्दल सर्वसमावेशक माहिती गोळा करण्यासाठी राजकीय सर्वेक्षण हे एक प्रयत्नाचे साधन आहे. ही माहिती स्थानाचे राजकीय

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# 92 Title: Analytical Study of Energy Sources and their Utilization by Citizens at Village Pingori, Dist. Pune

Dr. Joshi R. P.

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## A ANALYTICAL STUDY OF ENERGY SOURCES AND THEIR UTILIZATION BY CITIZENS AT VILLAGE PINGORI, DIST PUNE

Miss. Khare T. P. Prof. Shah S. S. Prof. Mene R. U. **Prof. Joshi R. P.**

Department of Physics

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### **Introduction:**

Energy is defined as the ability to do work. It may exist in potential, kinetic, thermal, electrical, chemical, nuclear, or other various forms. Modern civilization is possible because people have learned how to change energy from one form to another and then use it to do work.

There are numerous sources of energy. Energy can be classified into several types based on the following criteria:

- Renewable and Non-Renewable energy, • Primary and Secondary energy,
- Commercial and Non-commercial energy

### **Renewable and Non-Renewable energy:**

Renewable resources of energy can be naturally replenished and are available plentiful in nature. These resources are sustainable and are safe for environment. **There are five major renewable energy sources:**

- Solar energy from the sun
- Geothermal energy from heat inside the earth
- Wind energy
- Biomass from plants
- Hydropower from flowing water

Renewable energy sources are naturally replenished. Day after day, the sun shines, plants grow, wind blows, and rivers flow. A Non-renewable resource is natural resource that are found underneath the earth. This type of energy resources do not replenish at the same speed at which it is used. They take millions of years to replenish. The main examples of non-renewable resources are

- Natural gas, coal, petroleum, nuclear energy of hydrocarbon gas liquid
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# 93. Title: A Study of Biodiversity of Medicinal Plants at Pingori Village Dist. Pune

Dr. Danai-Tambhale S. D

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## A STUDY OF BIODIVERSITY OF MEDICINAL PLANTS AT PINGORI VILLAGE DIST. PUNE

Dr. Waske S. A., Prof. Kadam T. R., Prof. Dr. Ranadive K. R., Prof. Dr. Danai-

Tambhale S. D., Miss. Jabhulkar Vaishnavi

Department of Botany

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Abstract:

The rural folks in Pingori village sustain their healthcare on plant-based drugs for combating different ailments and disorders. They mostly belong to economically weaker sections of the society and the modern healthcare amenities are beyond their reach. The objective of the present investigation was to document ethnomedicinal claims of some important medicinal plants employed by the various rural folks in Pingori village. The plant has been extensively studied for its medicinal uses. The field survey was carried out in region Pingori near Purandar Fort. The present study was focused on collection of important medicinal plant in Pingori region. In the present study 35 different medicinal plants species from different 23 families were recorded. The fast rate of acculturation in the area reinforces the need for conservation of their traditional treasure of medicinal knowledge. This areas studied is a treasure house of medicinal plants.

**Key words:** Medicinal plant, Pingori, Traditional medicine.

### Introduction:

Mother nature is a best source of many medicines. Medicinal plants have been used by humans for centuries in folklore medicine (Sermakkani and Thangapandian 2012). Documenting the indigenous knowledge through ethnobotanical studies is important for the conservation and utilization of biological resources. Several active compounds have been discovered from plants on the basis of ethno botanical information and are used directly as patented drugs (Carney *et.al.*1999). According to floral statistics of India 2017 hosted by Botanical Survey of India, Kolkata, West Bengal, a total of 2,68,600 flowering plants worldwide among them 18 386 (6.84% of world) existed in India. In

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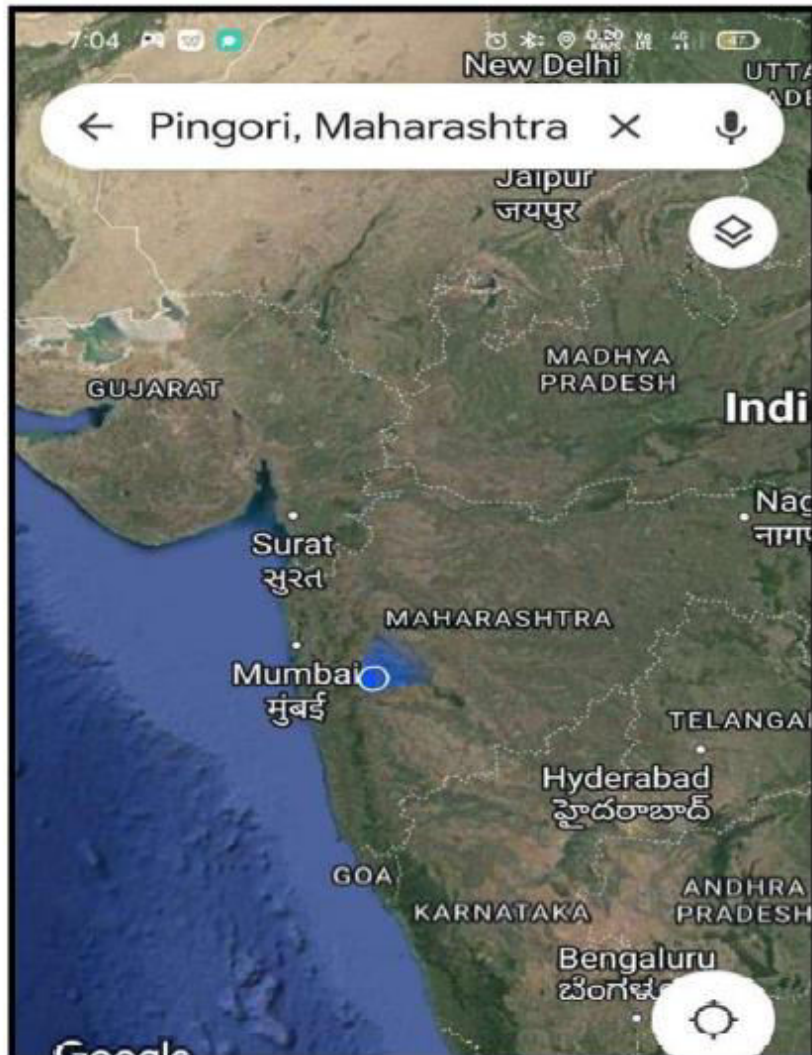
## A STUDY OF SOIL AND WATER FOR MICROBIAL ANALYSIS AND POTABILITY TESTING FROM VILLAGE PINGORI, MAHARASHTRA, INDIA

Nitin L. Ghorpade, Neha Nitin Patil, Urmila S. Dhangar, Poonam D. Jagtap

Department of Microbiology

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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# 95. Title: A Study of Solid Waste Management from Village Pingori Dist. Pune

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## A STUDY OF SOLID WASTE MANAGEMENT FROM VILLAGE PINGORI, DIST PUNE

Kamashetty A.O, Patil N.N, Shinde S. R, **Nitin L. Ghorpade**

Department of Environmental Science

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

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### Abstract:

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. It is situated 31km away from sub-district headquarter Sasvad (tehsildar office) and 61km away from district headquarter Pune. As per 2009 stats, Pingori village is also a gram panchayat. The total geographical area of village is 1705 hectares. Pingori has a total population of 1,112 peoples, out of which male population is 542 while female population is 570. Literacy rate of pingori village is 75.27% out of which 81.92% males and 68.95% females are literate. There are about 276 houses in pingori village. The Indian Owl Festival, the country's first owl fest, was held at Pingori village in Purandar taluka of Pune on 29th November 2018. The two-day festival, organised by Ela Foundation, an NGO working towards nature education and conservation, will give information on owl conservation and feature art forms like pictures, paintings, lanterns, lamp shades, posters, origami, stitched articles, poems and stories on owls. the present study investigated about the Solid waste management n of the Pingori village by using questionnaires.

**Keywords:** Pingori, solid waste management, Questionnaire.

### Introduction:

Pingori village is located in Purandhar tehsil of Pune district in Maharashtra, India. It is situated 31km away from sub-district headquarter Sasvad (tehsildar office) and 61km away from district headquarter Pune. As per 2009 stats, Pingori village is also a gram panchayat. Saswad is the nearest town to Pingori for all major economic activities. Pingori has a total population of 1,112 peoples, out of which male population is 542 while female population is 570. Literacy rate of pingori village is 75.27% out of which 81.92% males and 68.95% females are literate. There are about 276 houses in pingori

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# 96. Title: The Study of Impact Analysis of 10th class Students Career Preferences with Rural Culture, Environment and Opportunity in Village Pingori Dist. Pune

Prof. Deokar S. M.

Book Chapter

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## THE STUDY OF IMPACT ANALYSIS OF 10<sup>TH</sup> CLASS STUDENT'S CAREER PREFERENCES WITH RURAL CULTURE, ENVIRONMENT AND OPPORTUNITY IN VILLAGE PINGORI DIST. PUNE

Prof. Sangita M. Deokar

Department of Psychology

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

### Introduction:

Career selection is one of many important choices students will make in determining plans. This decision will impact them throughout their lives. The essence of who the student is will revolve around what the student wants to do with their life-long work. Every student carries the unique history of their past and this determines how they view the world. That history created, in part by the student's environment, personality, and opportunity, will determine how students make career choices. It then follows that how the student perceives their environment, personality, and opportunity will determine the career choices students make.

The first factor in career choice, environment may influence the students career choose. For example, students who have lived on an island may choose a career dealing with the water, or they may choose to leave the island behind, never to have anything to do with water again. Maybe someone in the student's life has made a significant impact or impression, leading to a definite career choice. Parents' educational background may influence student views on whether or not to continue their education. These various environmental factors would lead a student to a chosen career. How students have seen themselves in a role in which personality is a determining factor may influence a chosen career. Some careers demand that you have the personality to match the qualities of the occupation. For example, sales people have to be outgoing.

Opportunity is the third factor that has shaped career choices for students. Opportunity may influence how students have perceived their future in terms of the reasonable probability of a future in particular career fields. The issue of poverty has played an important determining role in the opportunities available to all. The income

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# 97. Title: Survey on Financial Literacy in Pingori Village District Pune

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# 97. Title: Survey on Financial Literacy in Pingori Village District Pune

Prof. Pawar A.

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## **SURVEY ON FINANCIAL LITERACY IN PINGORI VILLAGE**

**DIST. PUNE**

**Prof. Arti Pawar**

Department of Economics

PDEA's Annasaheb Magar Mahavidhyalaya Hadapsar, Pune-28

### **Abstract:**

Financial literacy has become a priority area across the world in recent year literate people are more capable of taking financially sound decisions like saving source of income digital payment and personal financial management etc. this study aim to investigate the relationship between financial literacy, financial inclusion among people of Pingori village. Is located in Purandar Tehasil of Pune district Pingori is medium size village with population of 1112 as per census 2011 the scope of the survey covers an in depth analysis of village economic activities Identifying livelihood Sources and assessing income level.

### **Introduction:**

The purpose of this study is to know the level of financial inclusion among Pingori village and understand the problems in financial literacy. In improving monetary proficiency the financial inclusion of villagers will contribute to their own wellbeing as well as nation economic growth. As they are responsible for the household budget household expenditure and saving for the family and income generation for livelihood similarly there are various wrong practices happening in society specially in rural areas.

### **Objective of the research:**

- 1) To understand the existing status of financial inclusion.
- 2) To know the measures of mitigation required for financial inclusion.
- 3) To analyze the problems in financial literacy.
- 4) To suggest the measures for financial literacy.

Research methodology

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# 98. Title: Study of Language, Literature and Culture in Pingori Village

Dr. Sonawale V. S.

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पिंगोरी गावातील भाषा, साहित्य आणि संस्कृतीचा अभ्यास

डॉ. चंदना सोनवले

मराठी विभाग

पु.नि.शि.मंडळाचे अण्णासाहेब मगर महाविद्यालय, हडपसर, पुणे.

**प्रास्ताविक: :**

लोकसाहित्य ही काही एका विशिष्ट लोकसमूहाची मालमत्ता नाही तर ते अखिल मानवजातीचे दर्शन घडविणारे साहित्य आहे. हे एक मौखिक साहित्य आहे. काळ जसजसा बदलत जातो तसे या लोकसाहित्याच्या स्वरूपातही बदल होत जाताना दिसतो. लोकसाहित्य आपली अविष्कार रूपे काळानुसार बदलताना दिसते. मौखिक साहित्य असल्यामुळे ते एका पिढीकडून दुसऱ्या पिढीकडे संक्रमित होत असताना त्यात बदल होत असतो. लोकसाहित्य हे नेहमीच जिवंत राहते. त्यामुळे ते भूतकाळात जमा होत नाही. लोकसाहित्याचा अभ्यास म्हणजेच केवळ लोकवाङ्मयाचा अभ्यास नाही तर तो लोकसंस्कृतीचा आणि लोकजीवनाचा अभ्यास आहे. लोकसाहित्याची भाषिक आविष्कारापलीकडची जी अंगे आहेत, त्यामध्ये लोकश्रद्धा, लोकपरंपरा, चालीरीती इत्यादींचा अभ्यास लोकसाहित्यामध्ये केला जातो. या अभ्यासात प्रत्यक्ष विविध लोक परिसरात जाऊन तिथल्या जाती जमातींचे क्षेत्रीय सर्वेक्षण करून त्याचा अभ्यास या शोधनिबंधात केला आहे.

**संशोधनाची उद्दिष्टे :**

१. लोकसाहित्य हे मौखिक साहित्य असून ते काळानुसार बदलते.
२. मराठी साहित्याभ्यास करताना साहित्य प्रवाहातील मौलिक बदल अभ्यासणे गरजेचे असते.
३. पिंगोरी या ऐतिहासिक गावातील मराठी बोली आणि लोकगीते, म्हणी, वाकप्रचार व लोक परंपरांचा अभ्यास करणे

**संशोधनाची अभ्यासपद्धती :**

१. पिंगोरी गावाला प्रत्यक्ष भेट देऊन बोलीचे नमुने, लोकगीते आणि वाकप्रचार व मौखिक साहित्याचे क्षेत्रभेटीद्वारे संकलन.
२. संकलित माहितीचे पाठसंहिता आणि विश्लेषण करणे.

**आशय :**

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## 99. Title: Kinase Inhibitor

Author: Poonam Kaswan

One of the most significant targets of drugs in the 21st century is the family of protein kinase enzymes. There are 62 therapeutic agents authorized by FDA, which target about two dozen distinct proteins. Except for Netarsudil, which is used to treat optical eyes and temsirolimus for renal cell carcinoma, all the FDA-approved medications are orally safe. Key common targets of the medicinal product include BCR-Abl, B-Raf, vascular receptors, VEGFR, and EGFR, as well as ALK. The following are 8 approved drugs of 2020 approved-Tucatinib, Ripretinib, Selumetinib, Capmatinib, Pemigatinib Pralsetinib, Selpercatinib, and Avapritinib. The adenine-binding pocket is occupied by the vast majority of licensed kinase inhibitors. They are classified based on their ability to catalyze the conversion of ATP's terminal phosphate onto substrates containing serine, threonine, or tyrosine residues. Owing to the dysregulation of protein kinase activity in many diseases including cancer, this enzyme family has become one of the most important drug targets in the 21st century. There are 72 FDA-approved therapeutic agents that target about two dozen different protein kinases.



Poonam Kaswan

### Kinase Inhibitors

An Overview



Poonam Kaswan belongs to Churu (Rajasthan), India. She received her M Tech degree from the Indian Institute of Technology, New Delhi, India (2012). She taught at the college education department for six years (2012-18). She researched (2018-2023) 'Transition Metal Complexes of Bi and Tridentate (N, S, O) Donor Ligands'



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## 100. Title: Carbonaceous Catalysts for Pollutant Degradation

Author: Poonam Kaswan

### 13 Carbonaceous Catalysts for Pollutant Degradation

Poonam Kaswan<sup>1</sup>, Santimoy Khilari<sup>2</sup>, Ankur Srivastava<sup>3</sup>, Girijesh Kumar<sup>2</sup>, Pratap K. Chhotaray<sup>4</sup>, Mrituanjay D. Pandey<sup>3\*</sup> and Kamalakanta Behera<sup>2†</sup>

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#### Abstract

To enhance the quality of the environment, a lot of studies have been done on carbonaceous materials to develop different architectures and qualities. The development and importance of carbonaceous photocatalysts is briefly highlighted in this chapter,

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## Chapter 20 Eco-Friendly Construction

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### **ABSTRACT**

*Increase in urbanization leads to more construction of houses, dams, and streets. Reduction of the global warming effects can be carried out by recycling of construction material and searching for eco-friendly construction material. Greenhouse gas emissions can be reduced with the help of construction material which requires less energy for their production. The concept of eco-friendly construction is based on biomimetic (i.e., finding natural material with potential of endurance and self-cleaning properties). Construction materials like Portland cement and concrete can be replaced by eco-friendly biocement and bioconcrete. Production of biocement and bioconcrete can be done by using plants, algae, and bacteria. Use of less cement in concrete leads to less pollution. Concrete is the mixture of cement, sand, gravel, and water. By addition of pozzolan in concrete, the requirement of cement will be reduced. In the current review, major emphasis is given to eco-friendly construction material.*

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## 102. Title: Good Control of Celiac Diseases Through Millet Tiffin

Author: Prof. Danai-Tambhale S.D.

Sustainable Agriculture 17th & 18th March 2023

Functional foods are gaining popularity among group of people and millets have been considered as potential candidate for the same, Millets are reported to be a major source of nutrients because of its antioxidant, anti-aging, antimicrobial, and anti-carcinogenic properties and some essential vitamins i.e., beta carotene (yellow pearl millets), niacin, riboflavin, thiamine and minerals (Ca, Zn, Mg, Fe, and Cu). Millets are found to have numerous health benefits and effective against Celiac Disease, *Diabetes mellitus*, cardio vascular disease (CVD), alimentary tract disorder, Malnutrition and many more.

Millets are nutritionally superior as their grains contain high amounts of proteins, minerals, flavonoids, polyphenols, and vitamins and could be used as functional food for prevention of noncommunicable diseases. Millets could be used to combat micronutrient malnutrition by bio-fortification of staple crops.

**Keywords :** Millets, functional food, disease, health benefits, effective

### Good Control on Celiac Diseases Through Millet Tiffin

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**Abstract:** Millets are belonging to Poaceae (grass family) are the oldest cultivated crops in world. Millets are categorized under two headings, viz. minor & major millets. Major millets can be consumed as soon harvesting over. But minor millets require processing before consumption. All minor millets are too much demanding recently due to their highly nutritious factors. The common name of Barnyard millet (*Echinochloa esculanta*) is Sawawa known for food and feed. It is one of the most important millet in diet of mankind of older days. Considering its important nutritive value in the diet, the present work undertaken to prepare various value based barnyard millet tiffin recipes to avoid and control of Celiac diseases

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## Vocational Education with NEP

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The NEP 2020 also proposes to establish a National Skills Qualifications Framework (NSQF) that will provide a common reference framework for skill development and recognition of prior learning. The NSQF will also help in the integration of vocational education with general education and provide a flexible and modular system for lifelong learning.

**Integration with general education:** The policy emphasizes the integration of vocational education with general education to provide students with a multidisciplinary and holistic education. This integration can help students to develop a range of competencies, including critical thinking, problem-solving, communication, and collaboration.

**Flexibility and modularity:** The policy proposes a flexible and modular system for vocational education that allows students to pursue their interests and passions. The system will enable students to choose from a range of vocational courses and modules and accumulate credits towards a certificate or diploma.

**Conclusion:-**

In conclusion, vocational education is an essential component of the National Education Policy 2020 that aims to provide students with practical skills and knowledge that can prepare them for the job market or entrepreneurship. The integration of vocational education with general education can provide students with a holistic and multidisciplinary education that meets the needs of the 21st-century job market. The establishment of the National Skills Qualifications Framework can also help in the recognition and validation of skills and competencies acquired through vocational education and lifelong learning.



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## THE 5+3+3+4 FORMULA IN THE EDUCATION SYSTEM.

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## THE ROLE OF YOUTH FOR DEVELOPMENT

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**ABSTRACT:** Youth are super important for every nation; they are be pillars of national development and growth of nation is dependent on youth. If a nation's youth is interested in national development, they can make it happen because they have some basic knowledge of development and the courage to take actions for development. A nation without youth can be the threat to the national development of a country, so a country is dependent on youth for development. But why are youths important for national development? Because youth have ideas that can translate into dreams; they have new energy to experience new things; they have time to build things for national development.

### **Role of Youth In National Development**

#### **1) Make Innovation In Country**

We have been aware that youth are brilliant in studies and they know how innovation works and that enables them to make innovation. So these products help to recognize globally the potential of a country that eventually drives investment in that country. And that investment directly helps in the nation's development. In India there are dozens of examples of young youth entrepreneurs who had creative ideas to build great products and because of that India is developing. Here one thing to keep in mind is that often there are more young youth folks coming up with innovative ideas than older folks. So the role of youth in national development is that they make innovation for a country.

#### **2) Create a Moment for Development of Nation**

This role might be for new people, but youth has played this many times. In a country, if there were elected members are not working for development in a region or a country that youth gather together to prevent this happening and force leaders to take action to promote development in a nation. **IMPORTANCE OF NATIONAL DEVELOPMENT**

The term – nation building or national development, is usually used to refer to a constructive process of engaging all citizens in building social cohesion, economic prosperity and political stability in a nation in an inclusive and democratic way. Going by the definition, it is seen that all citizens are to be involved in building or developing a nation. Thus, the involvement of youth in national development is a must. In fact, youths play one of the most important roles in nation building.

Youth are not only the leaders of tomorrow, but also the partners of today. Young people are social actors of change and progress. They are a crucial segment of a nation's development. Their contribution, therefore, is highly needed.

They have bubbling enthusiasm which has to be regulated and utilized the right way. This can surely ensure rapid national development. After all, all the people can only exercise their full potential when they are young and energetic. Youth is that period in which revolutionary thoughts spring to mind and these thoughts shape the world we live in. Bill Gates, the founder of Microsoft Corporation, is a living example. He had a revolutionary thought and he exercised his thought and look, how he has changed the world today!



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Author: Dr. Donewar M.M.



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## IMPACT OF NEP:-Impact of New Education Policy 2020 on Higher Education

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**Abstract** –The New Education Policy announced by Government of India (NEP 2020) was a welcoming change and fresh news amidst all the negativities surrounding the world due to the challenges posed by Covid19 pandemic. The announcement of NEP 2020 was purely unexpected by many. The changes that NEP 2020 has recommended were something that many educationists never saw coming. Though the education policy has impacted school and college education equally, this article mainly focuses on NEP 2020 and its impact on Higher Education. This paper also outlines the salient features of NEP and analyses how they affect the existing education system.

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# 114. Title: National Education Policy- A Vision

Author: Dr. Karande V. A.



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## National education policy- A VISION

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**ABSTRACT:** 2020 has therefore been transformed into the framework of this reform, which could help to build a new education system in the country, in addition to strengthening those economic and social indicators. That still needs to be improved. NEP 2020 provides for quality higher education through multidisciplinary universities and autonomous colleges. We have critically examined the policy in this paper and proposed changes to ensure a seamless continuum with its predecessor in addition to its importance. The current paper describes the analysis of the requirements for NEP 2020. Education has a key and decisive role in this scenario of contingencies. The National Education Policy 2020 has therefore been transformed into a framework of this reform, which could help to build a new education system in the country. That still needs to be improved. NEP 2020 provides for quality higher education through multidisciplinary universities and autonomous colleges.

### INTRODUCTION

The **National Education Policy of India 2020 (NEP 2020)**, which was started by the **Union Cabinet of India** on 29 July 2020, outlines the vision of a new education system for India. The new policy replaces the previous **National Policy on Education, 1986**. The policy is a comprehensive framework for elementary education to higher education as well as vocational training in both rural and urban India. The policy aims to transform India's education system by 2030. Shortly after the release of the policy, the government clarified that no one will be forced to study any particular language and that the medium of instruction will not be shifted from English to any regional language.

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## New Education Policy 2020 of India : A theoretical Analysis

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Another significant change proposed in the NEP 2020 is the introduction of mother tongue or local language as the medium of instruction until at least grade 5. This is aimed at promoting regional languages and creating a strong foundation for learning. It is hoped that this will also reduce the dropout rates of students who struggle with English as a medium of instruction.

The NEP 2020 also aims to promote multidisciplinary learning, allowing students to learn across different subjects and disciplines. It proposes the introduction of vocational education from grade 6 onwards, which will provide students with skills and training that are relevant to the job market. The policy also proposes the establishment of a National Education Technology Forum (NETF) to leverage technology for better learning outcomes.

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**Conclusion:-**The New Education Policy (NEP) 2020 of India is a significant step towards revamping the education system of the country. It proposes a more holistic, multidisciplinary, and student-centered approach to learning, with a focus on foundational education, vocational training, and technology-enabled learning.



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## NEP POLICY IMPLEMENTED IN MOTHER TONGUE

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## IMPLEMENTING CHALLENGES IN NEP IN 2020 .

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### **Language Barrier:**

India is a diverse country with 22 official languages and over 1,600 dialects. The NEP 2020 emphasizes the importance of teaching in the mother tongue or regional language up to at least Grade 5 to improve the learning outcomes of students. However, there is a significant shortage of qualified teachers who can teach in these languages. This shortage is more acute in urban areas, where English is the primary language of instruction.

To overcome this challenge, the government needs to invest in the recruitment and training of teachers who can teach in regional languages. This investment needs to be significant and sustained to address the shortage of qualified teachers in the country. Additionally, the government needs to ensure that these teachers are adequately compensated and provided with adequate facilities to enable them to teach effectively.

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# 122. Title: Digital Education & the NEP 2020 Opportunities & Challenges

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## Digital Education and the NEP2020 Opportunities and Challenges.

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**Abstract:-** *The potential of the National Education Policy 2020 (NEP 2020) to accelerate the development of digital infrastructure for education in India, while also discussing the challenges and limitations of online learning. The article notes that the NEP 2020 places a strong emphasis on digital education, with a goal to provide universal access to high-quality educational resources and promote online and blended learning. This is seen as a crucial step towards democratizing education in India and addressing issues related to access, equity, and quality.*

*The article calls for a balanced and inclusive approach to digital education that takes into account the diverse needs and backgrounds of students and emphasizes the role of teachers as facilitators and mentors in the learning process.*

- Opportunities:-
- The NEP 2020 aims to leverage technology to enhance the quality of education and increase access to learning opportunities, especially in remote and underserved areas.
- Digital education platforms can provide a range of multimedia resources, including videos, simulations, and interactive tools, which can support more engaging and personalized learning experiences for students.
- Online learning can also promote self-paced and flexible learning, allowing students to learn at their own pace and on their own schedule, which can be particularly beneficial for adult learners and working professionals.
- The NEP 2020 also highlights the potential of digital education to improve teacher training and professional development, by providing access to online resources and enabling virtual collaboration
- and networking among educators.

Challenges:-

- The digital divide is a significant challenge in India, with many students and teachers lacking access to reliable internet connectivity and computing devices. This can exacerbate existing inequalities in education and limit the reach and impact of digital education initiatives.
- Digital education also requires significant investment in infrastructure, hardware, software, and connectivity, which can be a challenge for resource-constrained schools and institutions.
- Effective implementation of digital education requires well-trained and digitally literate teachers, who can design and deliver engaging and effective online learning experiences. However, many teachers in India may lack the necessary skills and support to effectively incorporate technology into their teaching practice.

- Another challenge is the potential for increased screen time and social isolation among students.

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## MULTIDISCIPLINARY APPROACH IN NATIONAL EDUCATION POLICY 2020

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**The National Education Policy 2020:-** With the recently announced National Education Policy 2020, India has taken a giant leap forward in its journey of modernizing its education system. This type of education aims to promote an individual's holistic development by exploring various facets of knowledge. The NEP 2020 embraces this concept and seeks to strengthen it at all levels. To this end, the NEP outlines several measures that will help facilitate a multidisciplinary approach in education.

- Firstly, it promotes interdisciplinary studies across different educational institutions. This includes collaboration between universities, colleges, research institutions, and other organizations.
- Secondly, it encourages the integration of traditional Indian knowledge systems into modern curricula. This helps enrich the learning experience by providing students with a more holistic view of different topics.
- Finally, the NEP encourages the development of courses and programs that cover diverse disciplines like mathematics, science, arts, technology, and humanities.

Multidisciplinary education is a vital part of India's modern education system. By embracing this concept, the NEP 2020 seeks to give students access to a wider knowledge base and skills and prepare them for a rapidly changing world. What is multidisciplinary education? Multidisciplinary education is an approach to learning that takes into account different disciplines, subjects, and perspectives. It encourages students to broaden their learning beyond traditional boundaries, explore multiple perspectives, and cultivate new skills. This type of learning allows students to develop a more comprehensive understanding of any given



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# 126. Title: NEP 2020 in Professional Education

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## National Education Policy of India 2020 (NEP 2020)

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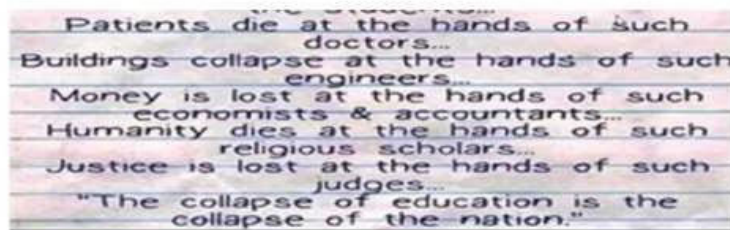
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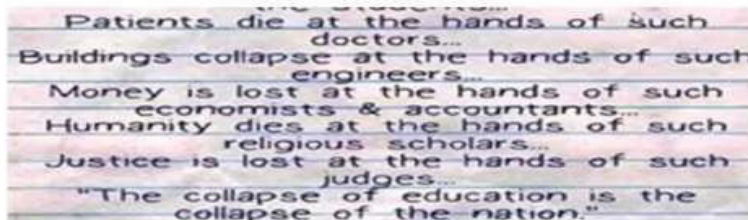
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The Government had initiated the process of formulating a New Education Policy through the consultation process for an inclusive, participatory and holistic approach, which takes into consideration expert opinions, field experiences, empirical research, stakeholder feedback, as well as lessons learned from best practices.

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### Introduction

The New Education Policy 2020 is a comprehensive framework for education in India that was introduced by the Ministry of Education, Government of India. The policy was approved by the Union Cabinet on July 29, 2020, and is the first education policy of the 21st century in India.

The New Education Policy 2020 aims to provide a transformative and holistic education system that is flexible, multi-disciplinary, and research-oriented. The policy emphasizes the need to create a system that is geared towards the overall development of students, with a focus on their cognitive, social, and emotional development.

One of the key features of the policy is the introduction of a new 5+3+3+4 curricular and pedagogical structure, which replaces the existing 10+2 structure. The new structure is based on the cognitive development of children and emphasizes early childhood education, as well as the development of foundational skills in the early years of schooling.

The policy also seeks to promote multilingualism and the use of mother tongue as the medium of instruction until at least grade 5, while also providing opportunities for students to learn other languages. Additionally, the policy emphasizes the need for a flexible and inclusive education system that caters to the diverse needs of all students, including those with disabilities.

### Abstract

The New Education Policy 2020 (NEP 2020) of India is a comprehensive framework for the development of education in the country. The policy aims to transform the education system to make it more inclusive, multidisciplinary, and flexible, to cater to the needs of the 21st-century learner. The policy includes several significant changes, such as the introduction of a 5+3+3+4 curricular structure, the promotion of multilingualism, the establishment of a National Education Technology Forum (NETF), and the emphasis on vocational education and skill development.

This theoretical analysis aims to evaluate the NEP 2020 in light of its objectives and implications. The analysis examines the policy's potential impact on access, equity, quality, and relevance of education. It also considers the challenges and opportunities associated with the implementation of the policy.

The analysis finds that the NEP 2020 has several positive aspects, such as its focus on early childhood education, the integration of vocational education, and the promotion of multilingualism. The policy's emphasis on technology integration and teacher professional development is also laudable. However, the

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## New Education Policy 2020 of India: Theoretical Analysis

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### Introduction

The New Education Policy 2020 is a comprehensive framework for education in India that was introduced by the Ministry of Education, Government of India. The policy was approved by the Union Cabinet on July 29, 2020, and is the first education policy of the 21st century in India.

The New Education Policy 2020 aims to provide a transformative and holistic education system that is flexible, multi-disciplinary, and research-oriented. The policy emphasizes the need to create a system that is geared towards the overall development of students, with a focus on their cognitive, social, and emotional development.

One of the key features of the policy is the introduction of a new 5+3+3+4 curricular and pedagogical structure, which replaces the existing 10+2 structure. The new structure is based on the cognitive development of children and emphasizes early childhood education, as well as the development of foundational skills in the early years of schooling.

The policy also seeks to promote multilingualism and the use of mother tongue as the medium of instruction until at least grade 5, while also providing opportunities for students to learn other languages. Additionally, the policy emphasizes the need for a flexible and inclusive education system that caters to the diverse needs of all students, including those with disabilities.

### Abstract

The New Education Policy 2020 (NEP 2020) of India is a comprehensive framework for the development of education in the country. The policy aims to transform the education system to make it more inclusive, multidisciplinary, and flexible, to cater to the needs of the 21st-century learner. The policy includes several significant changes, such as the introduction of a 5+3+3+4 curricular structure, the promotion of multilingualism, the establishment of a National Education Technology Forum (NETF), and the emphasis on vocational education and skill development.

This theoretical analysis aims to evaluate the NEP 2020 in light of its objectives and implications. The analysis examines the policy's potential impact on access, equity, quality, and relevance of education. It also considers the challenges and opportunities associated with the implementation of the policy.

The analysis finds that the NEP 2020 has several positive aspects, such as its focus on early childhood education, the integration of vocational education, and the promotion of multilingualism. The policy's emphasis on technology integration and teacher professional development is also laudable. However, the

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The policy provides for reforms at all levels of education from school to higher education. NEP aims to increase the focus on strengthening teacher training, reforming the existing exam system, early childhood care and restructuring the regulatory framework of education.

India is about to make significant changes to its education system in order to become a global power. The recent changes were implemented to end 34 years of educational policies. The new system, which is still being implemented, emphasizes online learning, more school hours, and a move away from rote learning.

The New Education Policy replaces the 34-year-old National Education Policy (NEP) that was formulated in 1986. The National Education Policy (NEP) was first formulated in 1986, and subsequently revised in 1992 and 1998.

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It emphasizes the development of skills for the 21st century, such as creativity, critical thinking, and problem-solving. The policy also proposed the establishment of new institutions, such as digital universities, as well as the use of technology to support students in learning.

One of the most significant changes introduced by the New Education Policy is the transition from the traditional 10+2 education structure to a new 5+3+3+4 education system. The goal of the new system is to make education more flexible and all-encompassing, with a focus on basic skills, critical thinking, and life skills.

Another key goal of the new education policy is to transform India into a global knowledge superpower by promoting research and innovation, improving education quality, and expanding access to education for all. The NEP 2020 also aims to increase the GER in higher education to 50% by 2035, up from around 26% in 2019.

The new education policy 2022-23 represents a significant shift in India's approach to education, with greater emphasis on flexibility, critical thinking, and skill development. These changes, hopefully, will help prepare the next generation of Indians for the challenges and opportunities of the 21st century.



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## New Education Policy 2020 of India: Higher Education

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### ABSTRACT

The New Education Policy announced by Government of India (NEP 2020) was a welcoming change and fresh news amidst all the negativities surrounding the world due to the challenges posed by Covid-19 pandemic. The announcement of NEP 2020 was purely unexpected by many. The changes that NEP 2020 has recommended were something that many educationists never saw coming. Though the education policy has impacted school and college education equally, this article mainly focuses on NEP 2020 and its impact on Higher Education. This paper also outlines the salient features of NEP and analyses how they affect the existing education system. A viewpoint on the National Education Policy 2020 is presented with respect to higher education. This review is sequenced in the following fashion for better clarity of the readers. Why this policy? – The background, aim & problems in the existing system; What is the new policy? – The general reforms, vision; Which are the areas changed? – The School and higher education sectors; How to align with the policy? – The Steps in implementation; When should it be achieved? – The time span; Where are we? – The Strength and the Scope of the higher education institutions/ universities.

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The National Education Policy 2020 (NEP 2020), which was approved by the Union Cabinet of India on 29 July 2020, outlines the vision of India's new education system. The new policy replaces the previous National Policy on Education, 1986. The policy is a comprehensive framework for elementary education to higher education as well as vocational training in both rural and urban India. The policy aims to transform India's education system by 2021. The language policy in NEP is a broad guideline and advisory in nature; and it is up to the states, institutions, and schools to decide on the implementation. The NEP 2020 enacts numerous changes in India's education policy. It aims to increase state expenditure on education from around 4% to 6% of the GDP as soon as possible. In January 2015, a committee under former Cabinet Secretary T. S. R. Subramanian started the consultation process for the New Education Policy. Based on the committee report, in June 2017, the draft NEP was submitted in 2019 by a panel led by former Indian Space Research Organisation (ISRO) chief Krishnaswamy Kasturirangan. The Draft New Education Policy (DNEP) 2019, was later released by Ministry of Human Resource Development, followed by a number of public consultations. The

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# 148. Title: New Education Policy 2020 of India: Theoretical Analysis

Author: Prof. Dhangar U. S.



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## INDIA'S NATIONAL EDUCATIONAL POLICY 2020

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### **INTRODUCTION**

Education is fundamental for achieving full human potential, developing an equitable and just society, and promoting national development. Providing universal access to quality education is the key to India's continued ascent, and leadership on the global stage in terms of economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. Universal high-quality education is the best way forward for developing and maximizing our country's rich talents and resources for the good of the individual, the society, the country, and the world.

India will have the highest population of young people in the world over the next decade, and our ability to provide high-quality educational opportunities to them will determine the future of our country. The global education development agenda reflected in the Goal 4 (SDG4) of the 2030 Agenda for Sustainable Development, adopted by India in 2015 - seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all" by 2030. Such a lofty goal will require the entire education system to be reconfigured to support and foster learning, so that all of the critical targets and goals (SDGs) of the 2030 Agenda for Sustainable Development can be achieved.

The world is undergoing rapid changes in the knowledge landscape. With various dramatic scientific and technological advances, such as the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for a skilled workforce, particularly involving mathematics, computer science, and data science, in conjunction with multidisciplinary abilities across the sciences, social sciences, and humanities, will be increasingly in greater demand. With climate change, increasing pollution, and depleting natural resources, there will be a sizeable shift in how we meet the world's energy, water, food, and sanitation needs, again resulting in the need for new skilled labour, particularly in biology, chemistry, physics, agriculture, climate science, and social science.

The growing emergence of epidemics and pandemics will also call for collaborative research in infectious disease management and development of vaccines and the resultant social issues heightens the need for multidisciplinary learning. There will be a growing demand for humanities and art, as India moves towards becoming a developed country as well as among the three largest economies in the world.

Indeed, with the quickly changing employment landscape and global ecosystem, it is becoming increasingly critical that children not only learn, but more importantly learn how to learn. Education thus, must move towards less content, and more towards learning about how to think critically and solve problems, how to be creative and multidisciplinary, and how to innovate, adapt, and absorb new material in novel and changing fields. Pedagogy must evolve to make education more experiential, holistic, integrated, inquiry-driven.



# 149. Title: National Education Policy 2020

## NEP-2020

Author: Prof. Dhumal A. S.



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Author: Prof. Dhupal A. S.



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# 149. Title: National Education Policy 2020 NEP-2020

Author: Prof. Dhumal A. S.



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## National Education Policy 2020 (NEP 2020)

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### National Education Policy 2020

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### What is National Education Policy 2020

The National Education Policy of India 2020 (NEP 2020), approved by the Union Cabinet of India on 29 July 2020, outlines the vision of the new education system of India. It replaces the previous National Policy on Education, 1986. The vision of the policy is to build an education system rooted in Indian ethos that contributes directly to transforming India by providing high-quality education to all, thereby making India a global knowledge superpower.

### National Education Policy (NEP 2020) for school education

1. Focus on Early Childhood Care and Education (ECCE) & Foundational Literacy and Numeracy (FLN)
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3. Learning Should be Holistic, Integrated, Enjoyable, and Engaging
4. Teacher Empowerment
5. Equitable and Inclusive Education: Learning for All
6. Standard-setting and Accreditation for School Education
7. Adoption of pedagogically sound teaching & learning practices

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### Advantages :-

1. The government aims to make schooling available everyone with the of NEP 2020.
2. Approximately two crore school students will be able to come back to educational institutes through this new approach.
3. According to the national education policy 2020, the Education Ministry is to set up a National Mission on foundational literacy and Numeracy.
4. For children up to the age of 8, a National curricular and pedagogical framework for Early childhood care and Education will be designed and developed by NCERT.
5. One of the merits of NEP 2020 is the formation of the National Book promotion policy in India.
6. Appropriate authorities will conduct the school examination for grades 3,5 and 8. The board exams for grades 10 and 12 will continue but the NEP 2020 aims to re-design the structure with holistic development.
7. Parikh nation policy is to be set up by the government.

### Disadvantage:-

1. In the national education policy 2020 language is a negative factor as there is a problematic to

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7. Parikh nation policy is to be set up by the government.

### Disadvantage:-

1. In the national education policy 2020 language is a negative factor as there is a problematic to teacher student ratio in India,thus introducing mother languages for each subject in academic institutes is a problem. Sometimes, finding a compound 10 teacher become a problem and nowanother challenge comes with the introduction of NEP 2020, which is bringing study materialin mother languages.
2. According to national education policy 2020, students willing to complete the graduation having studied to for 4 years while one can easily complete his her diploma degree into years. Its might encourage



# 153. Title: **Nationational Education Policy 2020** Author: **Prof. Gadekar A. J.**



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**Author: Prof. Gadekar A. J.**



**Annasaheb Magar College, Hadapsar Pune-28**

Two Days National Level Conference/Workshop

Held on Date: 10<sup>th</sup> and 11<sup>th</sup> February, 2023.

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### **National Education Policy 2020**

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#### Introduction

0.1. Education is fundamental for achieving full human potential, developing an equitable and just society, and promoting national development. Providing universal access to quality education is the key to economic growth, social justice and equality, scientific advancement, national integration and cultural preservation; and for India's continued ascent, progress, and leadership on the global stage. India will have the highest youth population in the world over the next decade, and our ability to provide high-quality educational opportunities to them will shape the future of our country.

0.2. The world is undergoing rapid changes in the knowledge landscape. With the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for skilled labour, particularly involving mathematics, computer science and data science, in conjunction with multi-disciplinary abilities across the sciences, social sciences and humanities, will be in rapidly increasing demand. With climate change and rapid depletion of natural resources, there will be a sizeable shift in how we meet the world's energy, water, and sanitation needs, again resulting in the need for new skilled labour, particularly in biology, chemistry, physics, and climate science. There will be a growing demand for humanities and art, as India moves towards becoming a developed country and among the three largest economies in the world.

0.3. Indeed, with the quickly changing employment and global ecosystem, it is becoming increasingly important that children not only learn but learn how to learn. Education must thus, move towards less content, and more towards learning about how to think critically and solve problems, how to be creative and multi-disciplinary, and how to innovate, adapt, and absorb new material in novel and changing fields. While learning by rote can be beneficial in specific contexts, pedagogy must evolve to make education more experiential, holistic, integrated, discovery-oriented, learner-centred, discussion-based, flexible, and, of course, enjoyable. The curriculum must include basic arts, crafts, humanities, games, sports and fitness, languages, literature, culture, and values, in addition to science and mathematics, to develop all aspects of learners' brains and make education more well-rounded, useful, and fulfilling to the learner. Education must build character, enable learners to be ethical, rational, compassionate, and caring, while at the same time prepare them for gainful, fulfilling employment.

0.4. The aim must be for India to have an education system that ensures equitable access to the highest-quality education for all learners regardless of social and economic background. To achieve this, actions must be taken now and with urgency.

0.5. The gap between the current state of learning outcomes and what is desirable must be bridged through undertaking major reforms to bring the highest quality and integrity into the system, from early

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