



**Criterion- III**

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**Metric No. 3.3.2**

**Index :-**

- 1. Publications in UGC care listed**
- 2. Publications in National Journals**
- 3. Publications in Inter-National Journals**

**3.3.2.1. Number of research papers in the Journals notified on UGC website during the last year**

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<b>Number</b>	<b>18</b>



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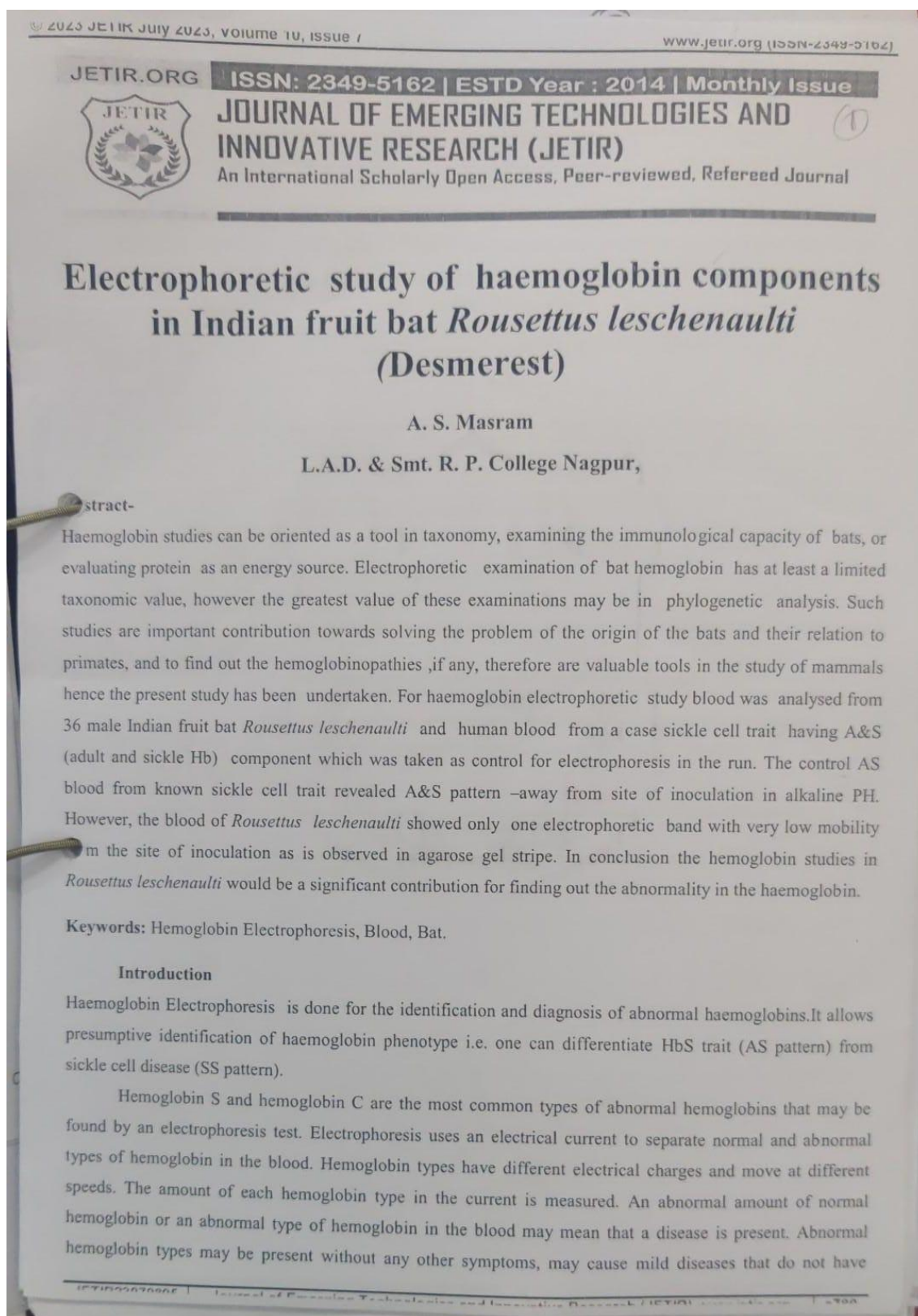
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BIOPHILET - A Quarterly Journal of Life Sciences  
Year : 2023, Volume : 20, Issue : 3a  
First page : ( 460) Last page : ( 473)  
Print ISSN : 0973-1431, Online ISSN : 0976-4755.

### Insects fauna associated with *Calotropis procera* (Milk weed) from Hingna, district Nagpur, (M.S., India)

Baghele Shradha S., Masram Archana S.  
Department of Zoology, L.A.D. and Smt. R.P. College For Women, Nagpur, Maharashtra, India  
Online published on 23 October, 2023.

#### Abstract

Field surveys were conducted during Feb-2021 to May-2021 and Feb2022 to May-2022 at Hingna Taluka of Nagpur, Maharashtra, India, to document different insects associated with *Calotropis procera* (Asclepiadaceae). A total of 18 insects were found to be present on this plant during summer season. Out of these 18 insect species (5 belonging to Order Hemiptera, 4 to Diptera, 3 to Coleoptera, 2 to Lepidoptera, 2 to Hymenoptera and 2 from Araneae ) were potential pollinators. 7 generalized herbivores (3 from Hemiptera, 2 from Coleoptera, one each to Diptera and lepidoptera) feeding on different parts of the host plant and 2 were specialized co-evolved, pre-dispersal seed predators (one belonging to order Coleoptera and other belonging to Diptera). Field activity and habits of these insects were also studied.

#### Keywords

*Calotropis procera*, Coleoptera, Hemiptera, Lepidoptera.

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**या संस्थेचे त्रैमासिक**  
**॥ संशोधक ॥**

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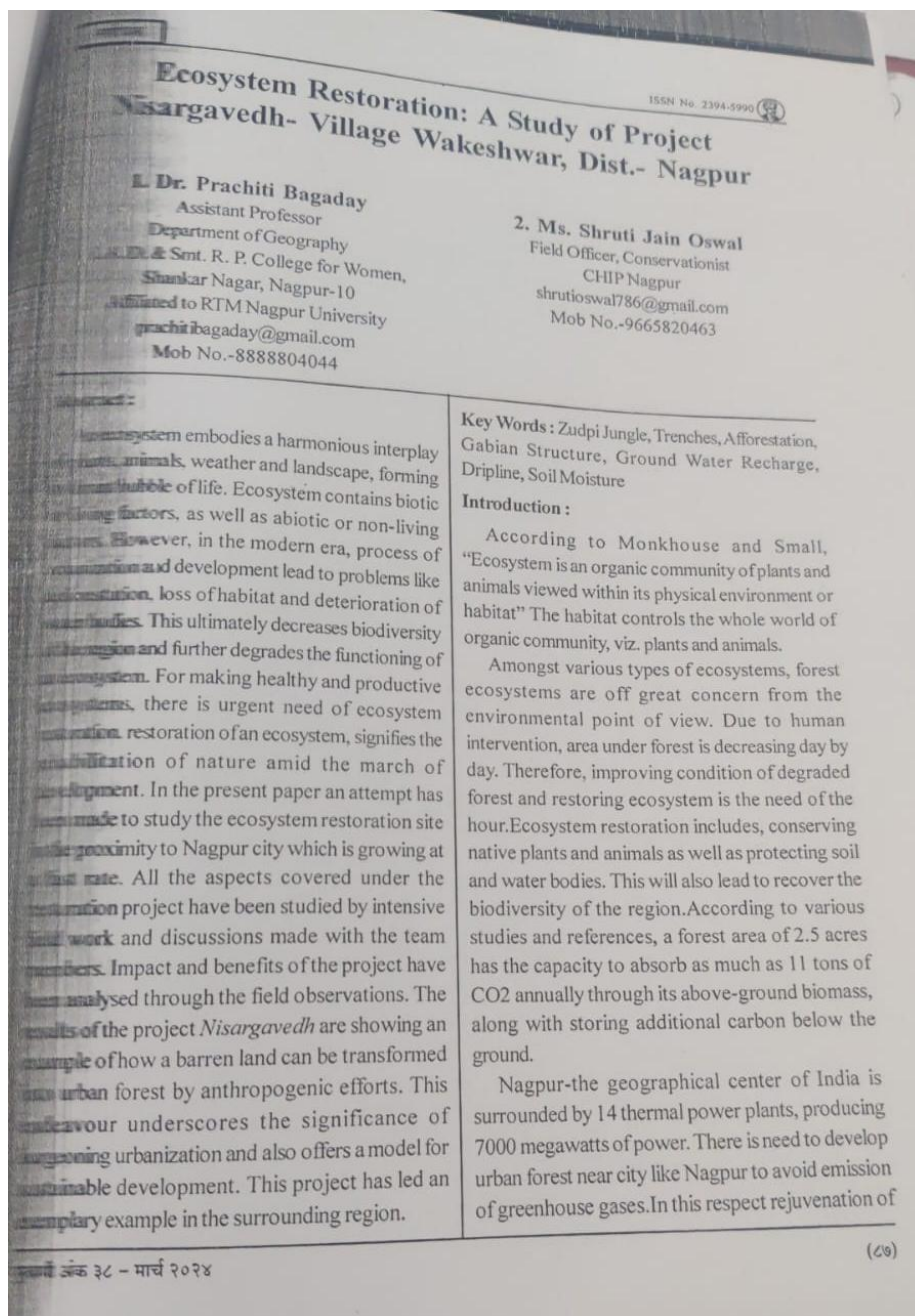
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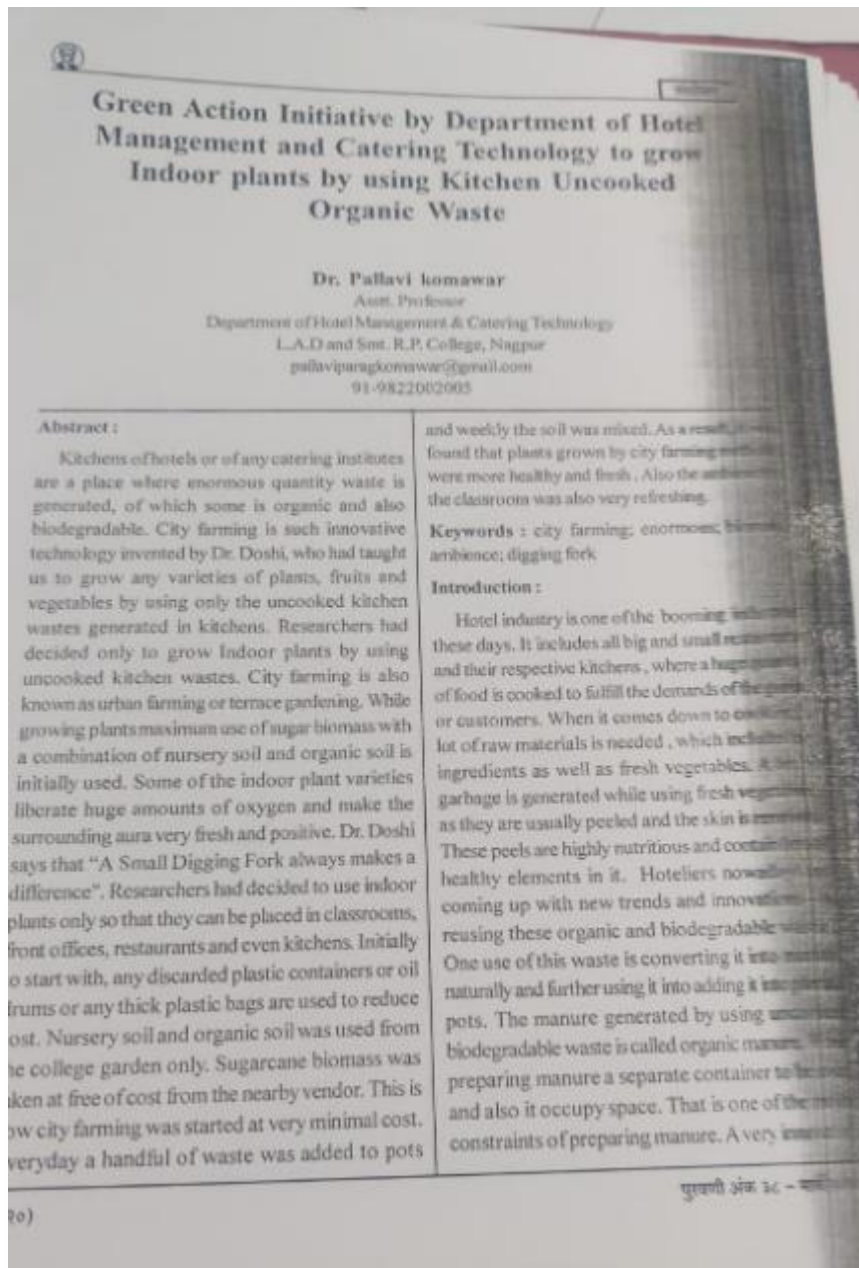






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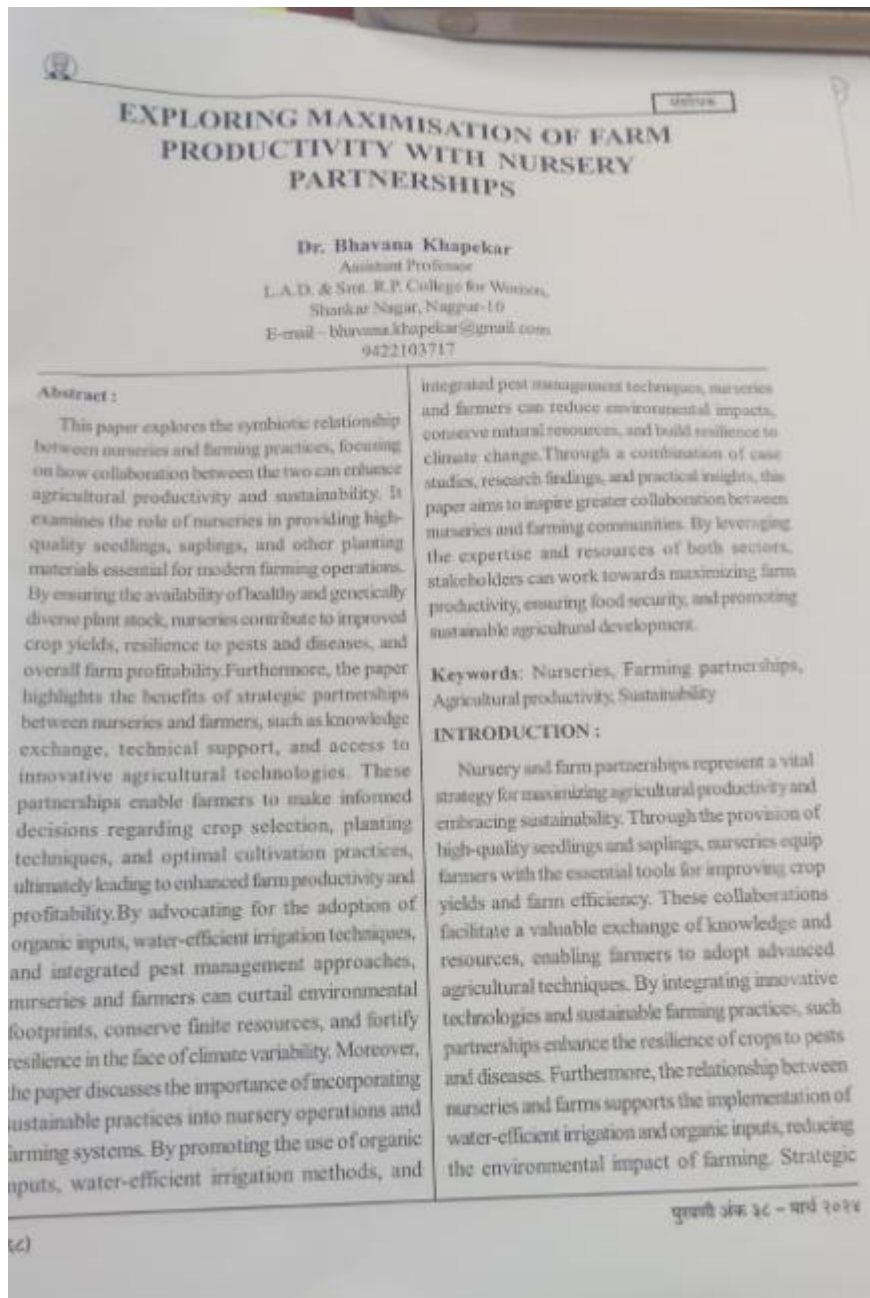


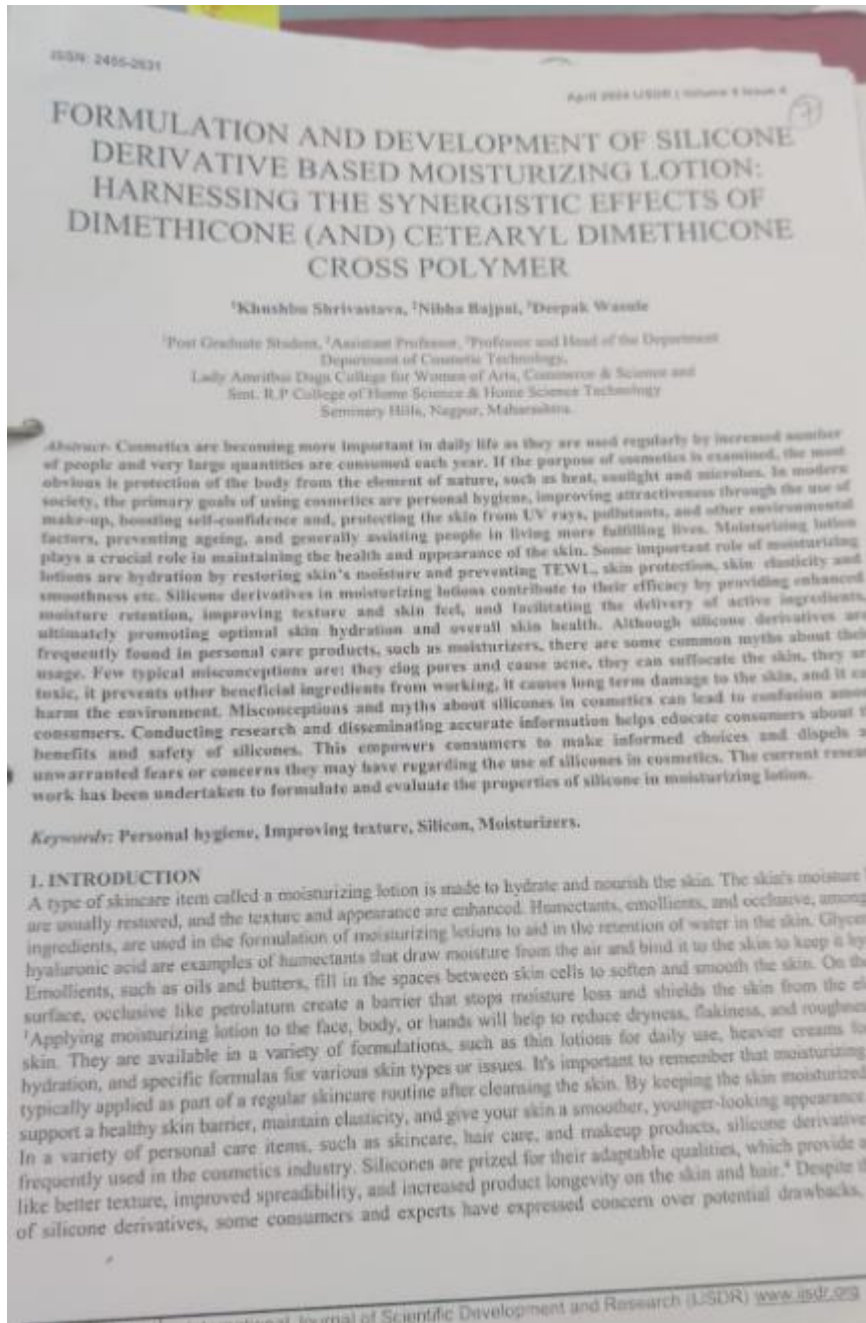
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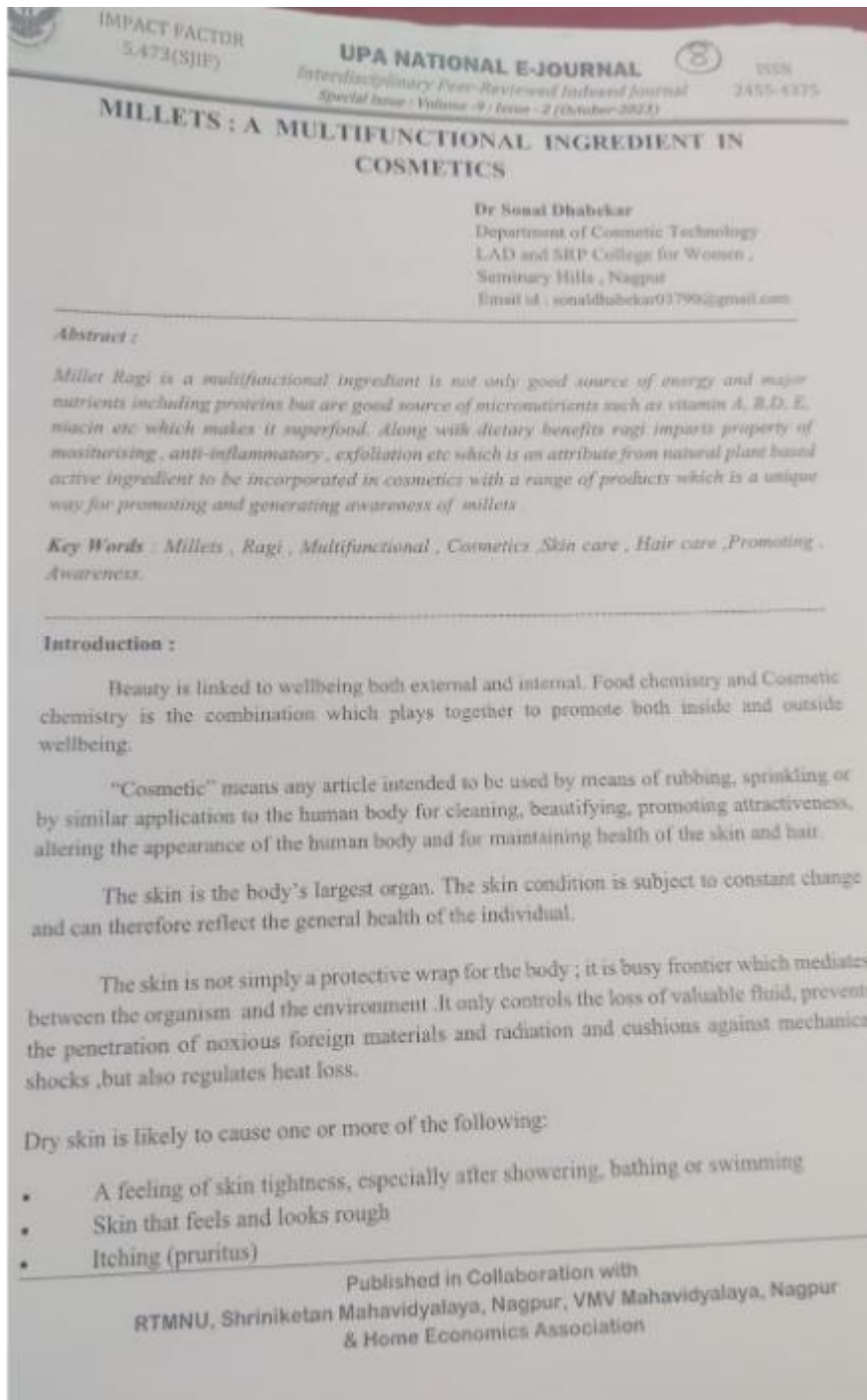
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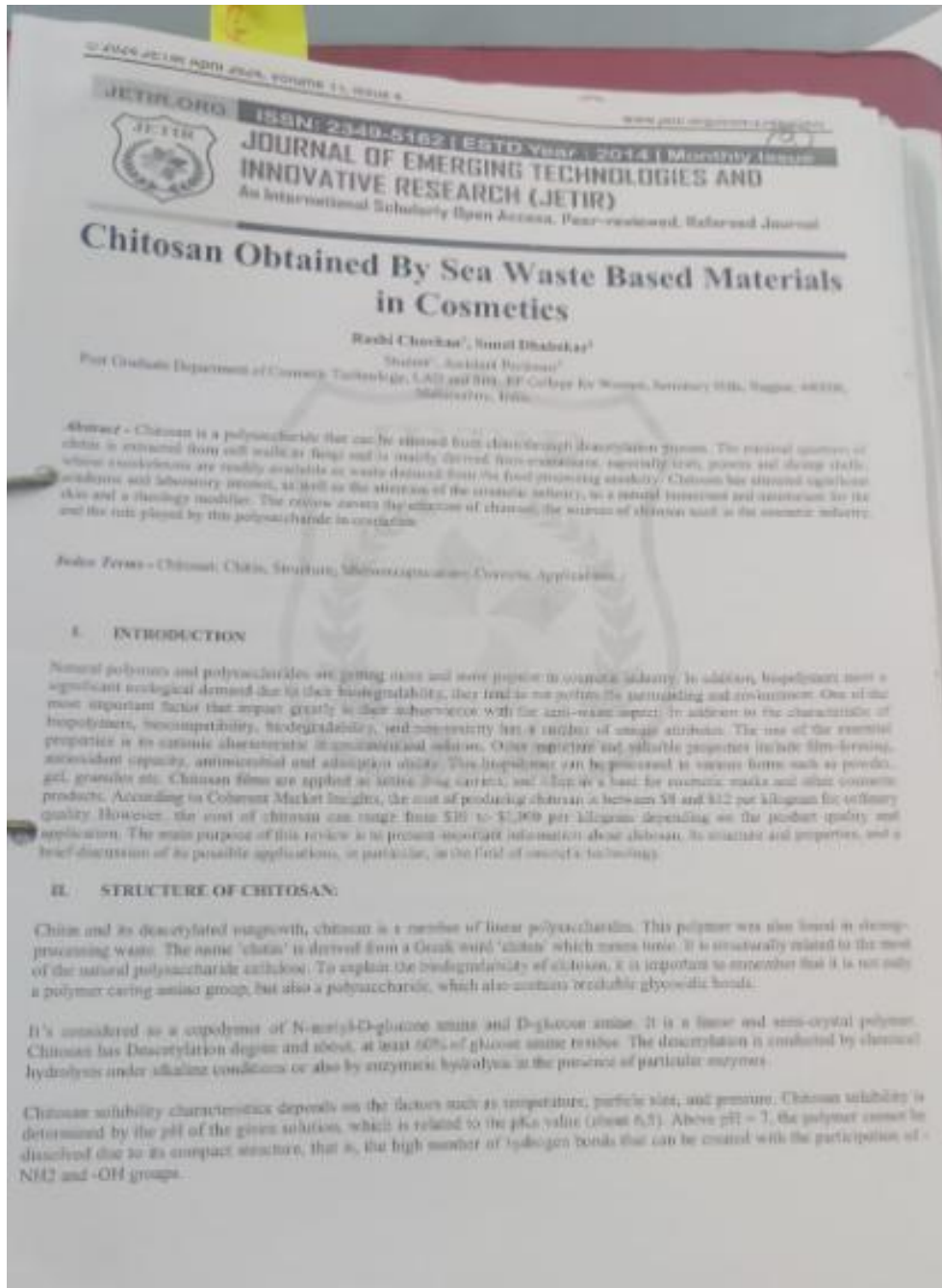
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STATUS

## Traits of an Ideal Father – as perceived by adolescent girls

**i) Ms. Akanksha Wasnik**  
Research Scholar,  
Centre for Higher Learning,  
Human Development,  
L.A.D & S. R.P. College for Women  
Nagpur

**ii) Dr. Nanda Rathi**  
Professor & Head,  
Department Human Development,  
L.A.D & S.R.P. College for Women,  
Nagpur

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**Abstract :**

Growing body of researches on the concept of fatherhood has divulged a vast array of rich, complex and diverse insights into the meanings associated with the role of father in the family. Modern fatherhood focuses on interactive engagement, listening and being a maturing male role model. The present research is an attempt to understand the adolescent girl's perception of an ideal father. The sample comprised of 100 adolescent girls in the age range 14 to 16 years. The sample was randomly collected from Nagpur city. A self-prepared questionnaire comprising of 40 items was used to collect the data. Percentages were calculated. Net weightage was used for analysing the data. The data was analysed for two age groups i.e. 14-15 years and 15-16 years. The result revealed that girls of age 14 years want their father to understand them, to morally support them and should be more of a guide & mentor. Girls of age 16 years desire that their father should let them select their own career, be broad-minded and provide them with feelings of security.

**Keywords :** Fathers traits, Adolescents, Parenting

**Introduction :**

Throughout the last few decades, scholarly interest in the concept of fatherhood has resulted in a vast array of rich, complex and diverse insights into the meanings associated with the role of father in the family. This body of

knowledge paints a multifaceted portrait of fatherhood

**Traits of Father :**

The image of the father is based on the norms, values, and beliefs surrounding the social status of the father. This image includes both stereotypical children's perception of how typical fathers think, feel, and act as well as ideal images of how children think fathers should think, feel and act.

**Aim :**

The main aim of the study is to examine the traits of an Ideal Father as perceived by adolescent girls.

**Objectives :**

- To examine traits of an ideal father as perceived by 14-year-old girls.
- To investigate the attributes of an ideal father by 16-year-old girls.

**Research Methodology :**

**Sample Size :**

The sample comprised of 100 children of age 14 to 16 years. The sample was collected randomly from Nagpur. The children were from grade VIII to X.

**Tools & Techniques :**

- A self-prepared questionnaire was used for the traits of an ideal father perception. The questionnaire comprised of 40 numbers of items.

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Abstract

## Intelligent Sustainable Early Childhood Education

<p><b>1. Dr. Nanda Rathi</b> Professor, Dept. of Human Development, L.A.D. and Smt. R. P. College for Women, Ph. No. 9823746700, Email Id - drnandurathi@gmail.com</p>	<p><b>2. Ms. Reema Siddhu</b> Research Scholar, Dept. of Human Development, L.A.D. and Smt. R. P. College for Women, Ph. No. 8149940328, Email Id - reema22889@gmail.com</p>
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<p><b>Abstract :</b></p> <p>Industrialization and urbanization are challenging the world and this has called for a worldwide effort to develop a more sustainable world. Unsustainable practices have led to climate change, biodiversity loss and pollution. Through sustainable development we aim at safeguarding the interests of the future generations, but also try to address the concerns of our contemporaries and counterparts across the globe. And for this we must begin with the early years. Scientific research has confirmed that early years sets the foundation for later years development. Early years are pivotal or critical for the development of the individual, both at physical and psychological level. This article focuses on the effective ways to construct a sustainable world by focusing on early childhood education. It is during early childhood years that children develop their basic values, attitudes, skills, behaviours, and habits which may be long lasting. "Reduce, Recycle and Reuse" can be the mantra for intelligent sustainable early childhood education. The three pillars of sustainable development i.e. environment &amp; ecology, economy and society &amp; culture can be used to frame the curriculum of sustainable development during early years. Early childhood educators can play a very important role in this education. Educators can provide children opportunities to learn and experience about nature and culture, thereby learning to respect them. Through this education, children can learn about how human lives depend on nature and how resources of nature can be used wisely.</p>	<p><b>Key Words :</b> Early childhood education, Early childhood educators, Reduce, Recycle, Reuse sustainable development.</p> <p><b>Introduction :</b></p> <p>"The greatest lesson in life, if we would but stoop and humble ourselves, we would learn not from grown-up learned men, but from the so-called ignorant children" - M.K. Gandhi</p> <p><b>What is sustainable development?</b></p> <p>"Development that meets the needs of the present without compromising the ability of future generations to meet their own needs" 1987 Brundtland Commission Report, United Nations.</p> <p>Through sustainable development we aim at safeguarding the interests of the future generations, but also try to address the concerns of our contemporaries and counterparts across the globe. Sustainable development aims to attain a state of society where living conditions and resources are used to continue to meet human needs without undermining the integrity and stability of the environment.</p> <p>Development has brought many gains to the societies, however this development in many cases is unsustainable. Unsustainable practices have led to climate change, biodiversity loss and pollution. Repercussions of unsustainable practices have impacted the developing world more acutely especially among the poor and deprived. To meet the vital needs, the poor use and overuse all the resources available at hand. Poverty provokes population growth, violence and war which is harmful</p>
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1000 No. 1294 (2023)

### Green Criminology : From Calm to Chaos in 'Aathi'

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**Abstract :**

From the genesis of human life, crimes have been visible in various forms- domestic abuse, physical abuse, sexual abuse, psychological emotional abuse child abuse etc. But in the present era to this list is added, 'Green Crime'. The text under study is 'Gift in Green' by Sarah Joseph. In her novel she talks about the exploitation of Mother Earth to fulfill man's greed. 'Aathi' the serene island in its pristine glory, the dazzling and crystal clear water of 'Aathi' turned into thick black water and unfit for drinking. The protagonist of the story who had his roots in 'Aathi' left Aathi in search of greener prospects and returned to his native place as a Green Criminologist, destroying dazzling crystal clear water along with varieties of fishes, mangrove forests along with the chirping of the birds and the two main source of livelihood farming and fishing. The lands were not be given to farmers on lease but leveled and filled for concrete buildings. The farming land is grabbed by Kumaran stealthily and he promised them all a hefty return for their lands but his intentions are malicious and sole aim was to mint money at the cost of the lives of the inhabitants of the village. The vibrant village had the clouds of melancholy and gloom hovering over it. Life in 'Aathi' was losing its serenity because of continual intrusions from the external world. Not only the villagers, animals, birds, fishes but the revered local deity Thampuram was also affected. The sacred deity which the villagers revered, was also not spared. The temple with a thatched roof with grass growing on it, Kumaran tiled and covered in gold but the deity was deprived of the age long customs, which the villagers thought had evoked the deity's wrath on the villagers therefore there was chaos in the village. Kumaran wished to bring transformation in the village for but his own mercenary gains.

Will Earth heal and forgive her wrong doers? Will eco-justice be given to the people of 'Aathi'? Or would Kumaran be victorious in committing green criminology?

Having the anthropocentric attitude has led to the various disasters which we are facing. Earth is sick because of misappropriation of her natural resources and overexploitation.

**Keywords:** Green Criminology, Anthropocentric, Ecojustice, Land grabbing and Environmental Ethics

**Unearthing Green Criminality in Sarah Joseph's Novel *Gift in Green***

Sarah Joseph a Malayalam writer, in her 'Gift in Green' by, presents a pristine place called, 'Aathi'. It is a captivating world in itself, its waters cool and serene. The novel describes the woes and worries of the group of people inhabiting the fictional place Aathi. The novel can be regarded as a work on the green criminologist Kumaran, who inflicts all cruelties on nature and exposes the detrimental impacts of unchecked development and environmental exploitation, ultimately serving as a poignant commentary on the need for sustainable practices and environmental justice.

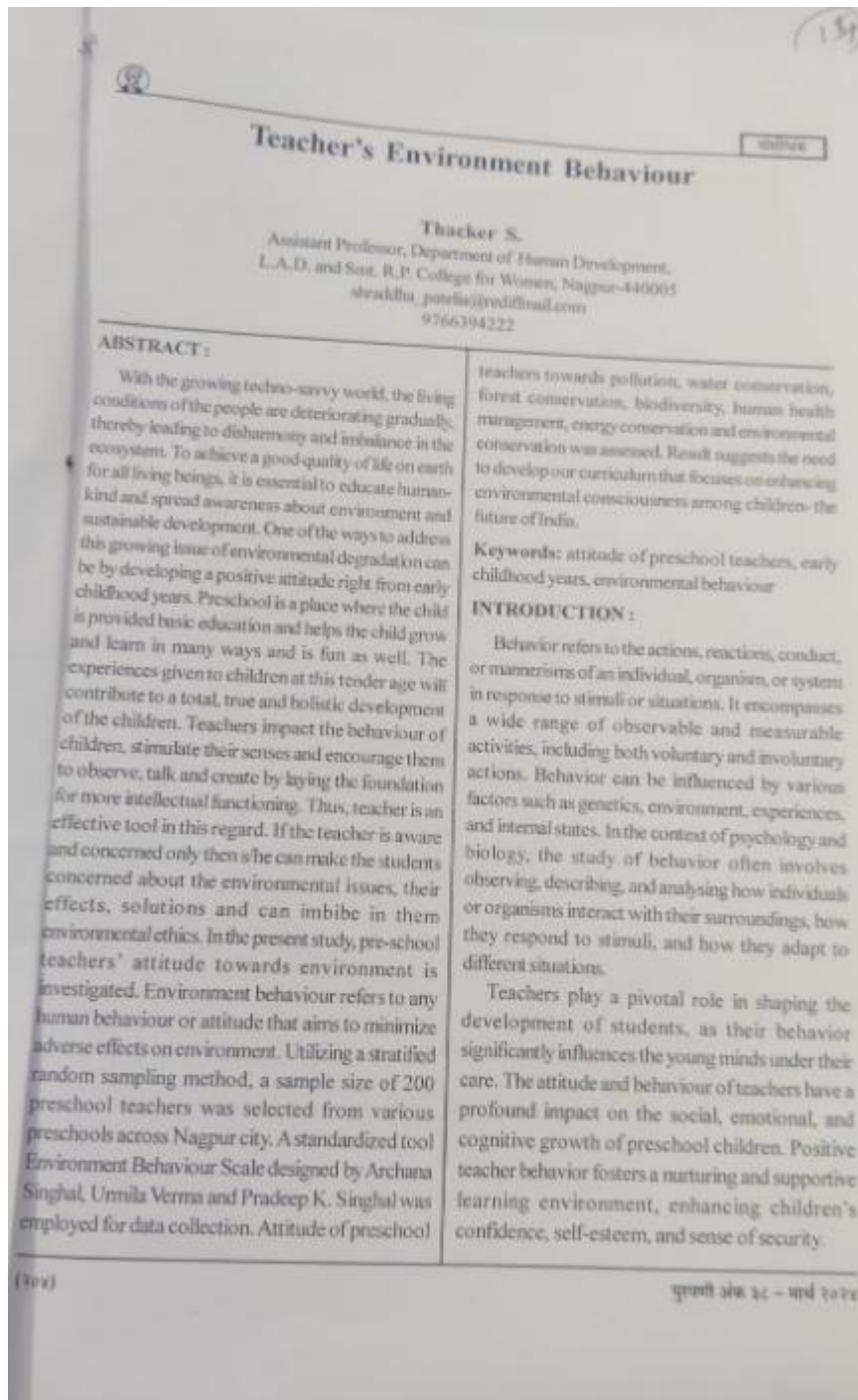
Through the figure of Kumaran, a ruthless entrepreneur driven by greed devastates the serene

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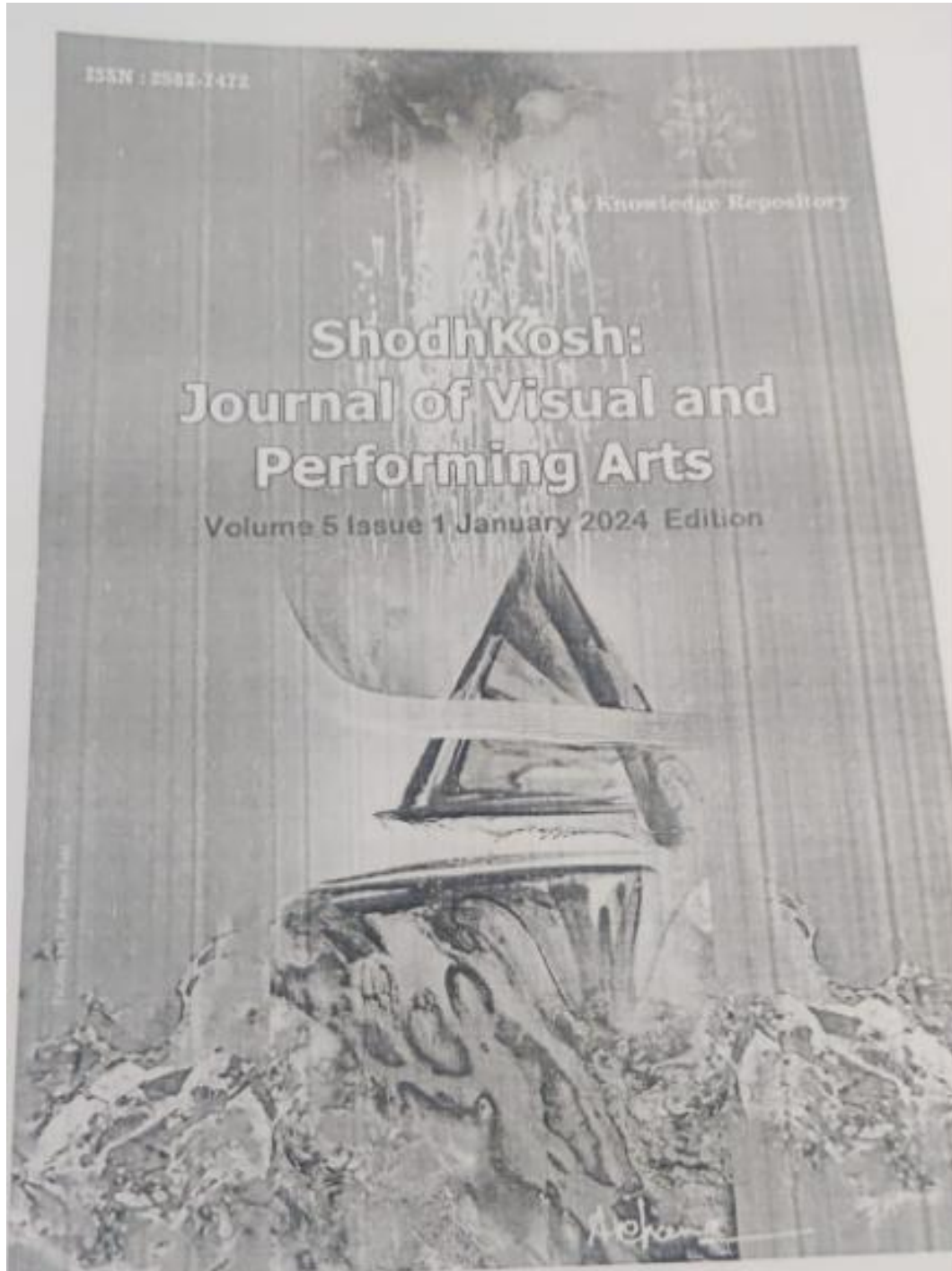




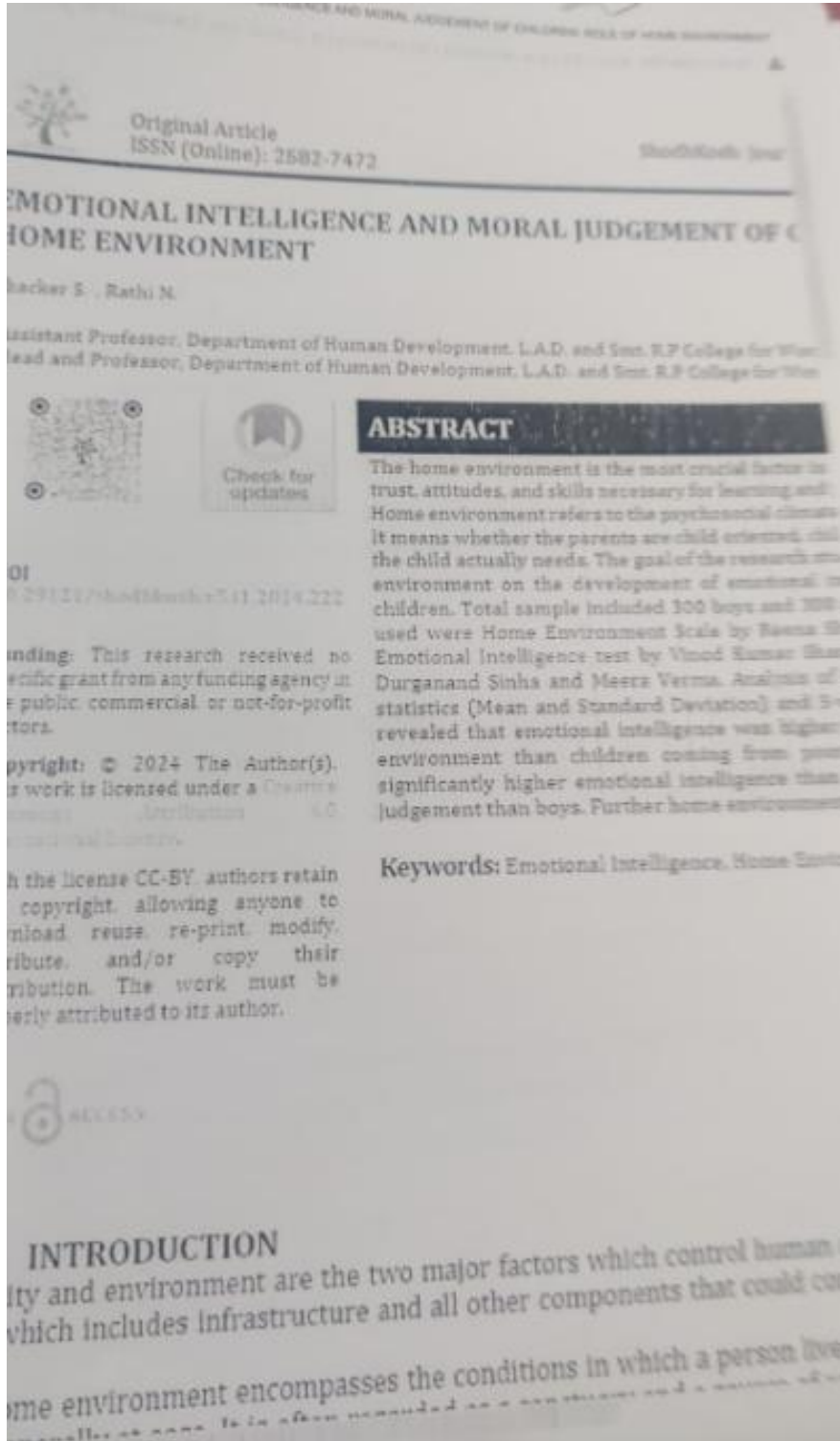


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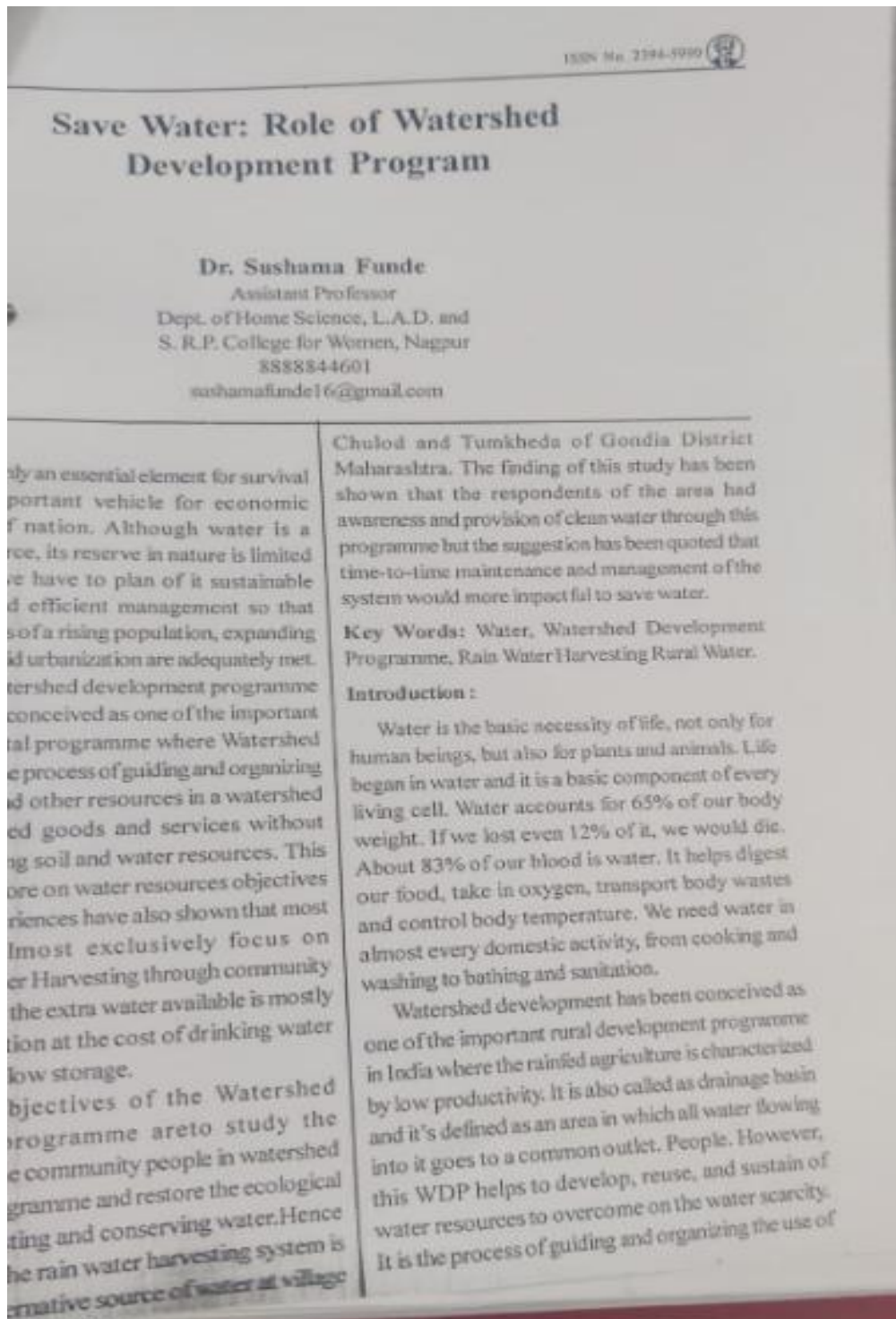
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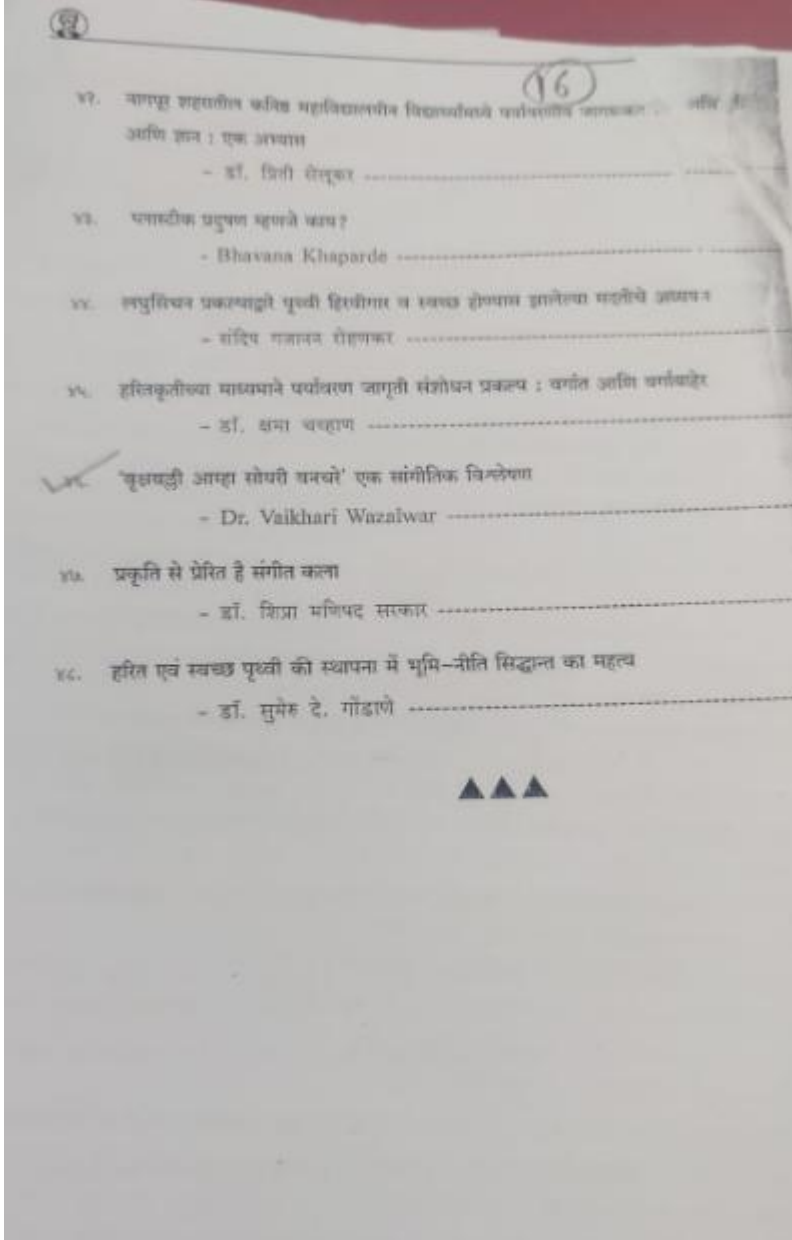




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**'वृक्षवह्नी आम्रस्य सोयरी वनाचरे'**  
**एक सांगीतिक विन्धेक्षण**

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**संक्षेप :**  
संत तुकाराम महाराजांनी त्यांच्या 'वृक्षवह्नी आम्रस्य सोयरी वनाचरे' ह्या अर्थान्त धार्मिकताचे उदरगुंन निर्माण झालेली आणि प्रोत्साहनगरे महात्मनी ही विखरीत वृक्षवह्नी अमरा सर्वांचे अतिशय जवळचे सोसले पल्पदेव जगत सर्वांचे अतिशय विखलन विषय होय असे सांगितले आहे. उला ह्या विखरणे, मानवज्ञी नाते जोडताना संगीतातील समसुगंधी सज्जवारी घाललेली संगीत त्या अंतर्जातीय वने तर संपूर्ण काळातील अर्थात अर्थिक उन्वळ आणि प्रगत्य करते. ह्या अर्थान्त अदुसकनच आणि वसुंधरा संवर्धन ह्या विषयांसाठी सर्वांना झालेले हे बर्ण, ह्या दोन्हींचे औचित्य साधून हा प्रोग लेख लिहीण्याचा विचार पुढे आला. हरित पृथ्वी - स्वच्छ पृथ्वी - वसुंधरा संवर्धन ह्या मध्ये संगीताने एक प्रेक कसे म्हणून काढावयाचे आणली भूमिका पार पाडली आणि अनुभवी पार चाटत आहे. हाचा धोडक्यात सोधालेक आहवा घेणे योग्य ठरेल.

**Keywords :** संगीत, वसुंधरा संवर्धन, निमग्न, वृक्षवह्नी, प्रेक शब्द.

**प्रस्तावना :**  
नवग्रहामधील पृथ्वी हा ग्रह म्हणजे वैश्वानरे परिपूर्ण असा, इनजीवन, वृक्षवह्नी, कळ-जुल, पशु, पक्षी यांचे वनतथ्य असलेला समृद्ध ग्रह होय. अन्न-पाणी, हवा, तंत्रज्ञान, विज्ञान, तथ्यात, योग अशा नानाविध गोष्टींनी नटलेल्या ह्या पृथ्वीचा सांगीतिक हा एक अविमान्य घटक आहे. विविध कलांनी - स्फूर्तीने परिपूर्ण असलेल्या ह्या धरतीमातेला शतशः वंदन ! क्षीतलाकरील संगीताच्या अधिष्ठानामुळे संपूर्ण मानवी जीवन सु- पक्षी एवढच नव्हे तर ही अवघी वृक्षवह्नी, मृती या र्वांना वैश्वान्यपूर्ण देवण्यास सकारात्मक उर्जा प्राप्त होते. संगीताचा

जगतेक सर्व गोष्टींनी जलंत घडित आणि अगुट संभव आहे. ह्या अनुभवांनी सांगितलेक विन्धेक्षण काढायकाल ह्या सोपे लेखाचे प्रयोजन. हे विन्धेक्षण काढायकाला वैदिक काळ, भक्तिकाळ - (रात काळ), तसेच आधुनिक काळातील काव्यांचा आचरयक जो आहवा घेउन सोपे लेख लिखतांज येता सर्वांत.

संगीत ही एक सवृष्टिकलाची कला आहे. संगीत घालकरी गुस्तुजावून आत्मयत्ना केलेली आणि स्वयंतेरी सुलवतेरी ही संगीतकला केवळ कला म्हणून संमित न राहत गेल्या मळी वसुंधरात एक प्राथेगिक कला म्हणून स्वतःचे अर्थित्त्व निर्माण करते आहे. प्राथेगिकतेच्या क्षेत्रात एक सुक आणि प्रेक घटक म्हणून संगीत अचरयतानी आहे. संगीताचे हे मनोवैज्ञानिकत्व वैदिक काळातच सिद्ध झाले आहे. मान्येकरा रुचांचे गावून गावकियेच्या आधारे, उदात - अमुदात - स्मृति ह्या तीन स्तरात होत असं. कावेदातील रुचांचे गावून माणवे मानवेत. ह्या रुचांमध्ये मत्कालीन मानवाचे, प्रकृतीने, वनस्पतीचे, वृक्षवह्नीचे, संपूर्ण सृष्टीची भरपूर खावी, अदुसक सुखीत राहणे, पिकांमध्ये वृष्टी खावी, सर्वत्र निर्गो वातावरण ह्याचे ह्यासटी प्रार्थना केल्या जात असत.

संगीत आणि वसुंधरा संवर्धनाचे हे अगुट नाते पुढे मध्यकाळात देखील असेच हातात हात घातून प्रचलन करत राहिले. आणि टिकून राहिले. मध्यकाळ म्हणजे मोगल काळ आणि भक्तिकाळ. हे दोन्ही काळ पारसर संगीत काळ होते. मोगलांच्या आक्रामानी घबरितत झालेल्या जल्लेचे काव्यिक मंतुलन हासजू न देता, हिमालीने आणि पैदांने आलेल्या परिस्थितीत सामोरे जाण्याचे बळ संगीत आणि सज्जवळ माध्यमातून देण्याचे महत् पुण्याचे तसेच जोडणीचे सर्व संतने वेळी. ते करत असताना त्यांनी घाणी माता, पशु-पक्षी, वृक्षवह्नी, संपूर्ण चराचर ह्या सर्वांना सुद्धा शितकेच महत्त्व दिले. ह्या

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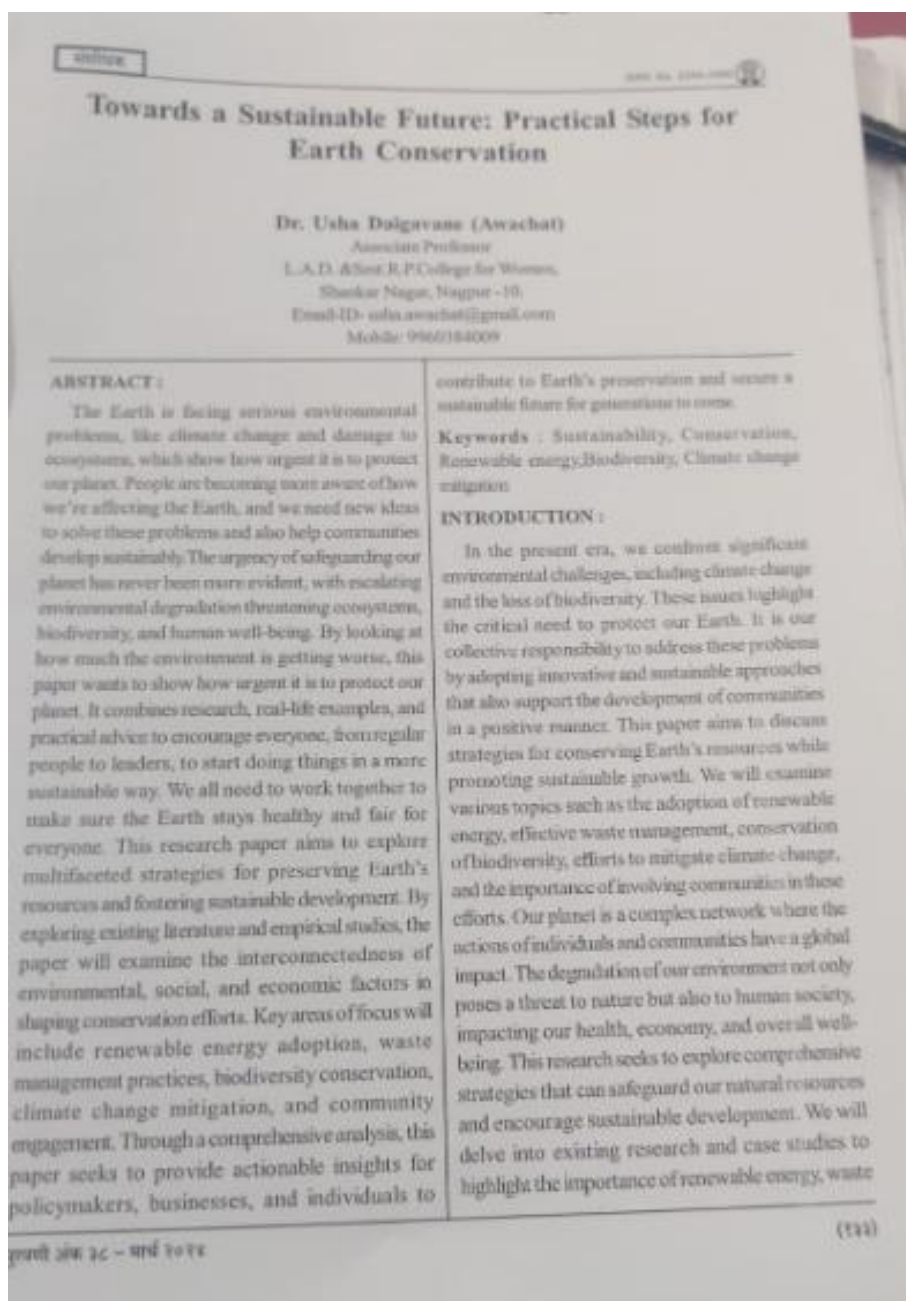


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## Conceptual study of Green Criminology

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**ABSTRACT :**

Green Criminology also called Environmental crime or Green Crime or Green Collar Crime refers the study of environmental crimes and harms affecting human and non human life, ecosystems and biosphere. These are crimes which are committed against the environment and wildlife. The crimes against the environment are the unlawful exploitation of wild flora and fauna, pollution, waste disposal and trade. The delicate balance in nature can be disturbed by natural or artificial changes. Imbalance due to natural changes could be tsunamis, soil erosion, fire causing forest destruction, cyclone, acid rain, global warming, greenhouse emissions etc. whereas air pollution, water pollution, land pollution, noise pollution, and radioactive pollution, food pollution, thermal power plant pollution, sea pollution and pollution caused by solid wastes, are all due to human activities. Any illegal activity that breaches national and international environmental laws is termed as environmental or green crime. Wildlife poaching, illegal mining, dumping into water bodies, overfishing, illegal logging, groundwater contamination, burning garbage, improper handling of pesticides and chemicals, and oil spills all comprise environmental crimes. The scope of green criminology comprises of core components like focus on environment, animals and humans; focus on crime; focus on harm; and focus on injustice. The paper attempts to underline crimes committed against environment and wildlife and looks into acts which cause harm to environments directly or indirectly and traces the environmental movements that have emerged in India. It focuses upon statutes, laws and policies in India, relating to environmental protection and prevention and emphasizes why green criminology with proper legislation and appropriate punishment is the need of the hour.

**Keywords :** Green Criminology, Environment, Criminology, Climate Change, Global Warming.

**Objectives :**

To understand the concept of Green Criminology and environmental laws in India.

**Methodology :**

The paper is based on secondary data.

**Introduction :**

Since the beginning of time, man and nature have been in a balance, controlled and regulated by nature itself. This delicate balance is undone by natural or artificial changes. Imbalance can be due to natural changes by natural forces such as tsunamis, soil erosion, fire causing forest destruction, cyclone, acid rain, global warming, greenhouse emissions etc. Artificial changes are caused by human activities resulting in air pollution, water pollution, land pollution, noise pollution, and radioactive pollution, food pollution, thermal power plant pollution, sea pollution and other pollutions caused by solid waste. These manmade pollutions are examples of environmental or green crime. Any illegal activity that breaches national and international environmental laws, like wildlife poaching, illegal mining, dump

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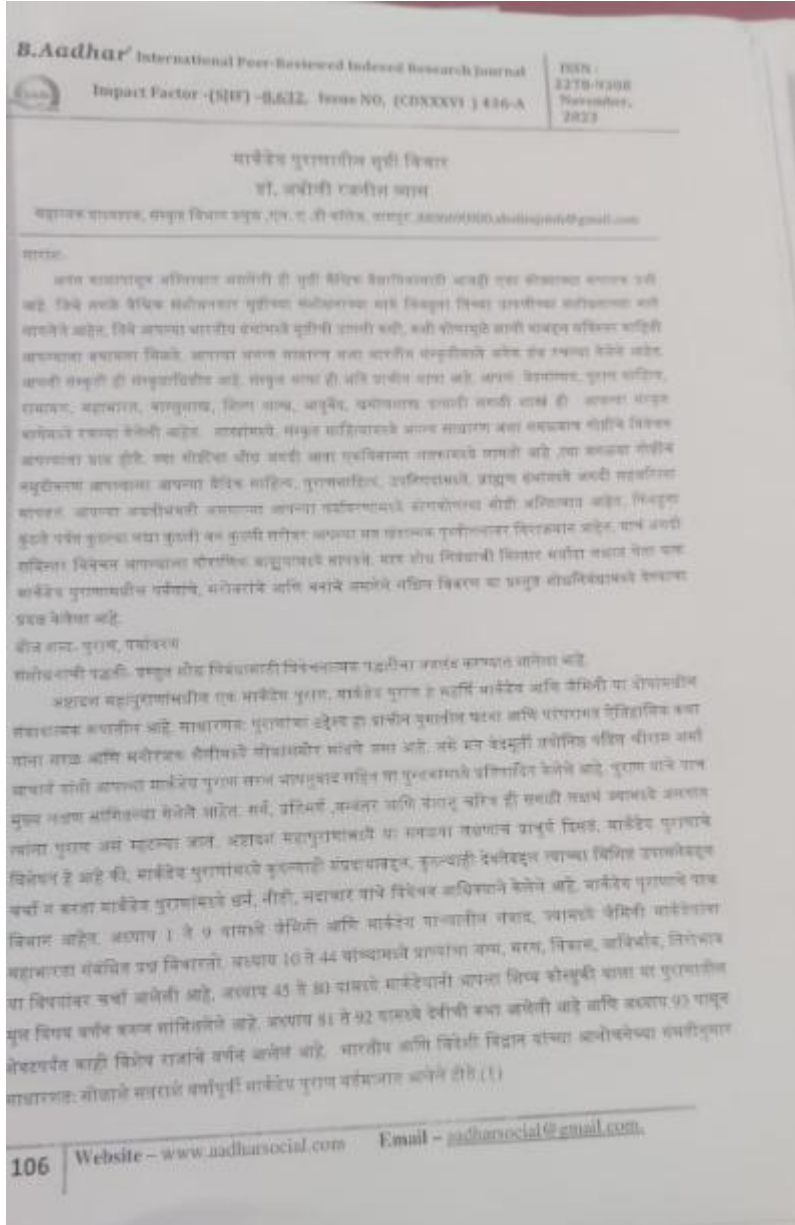




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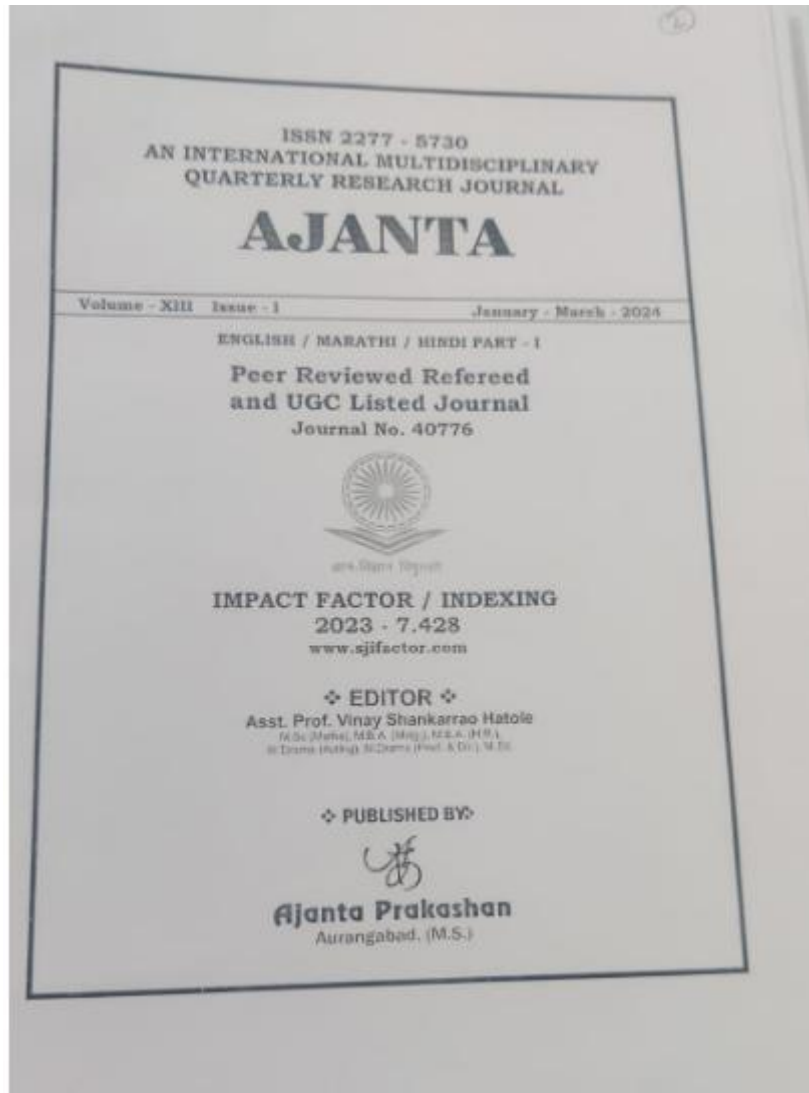
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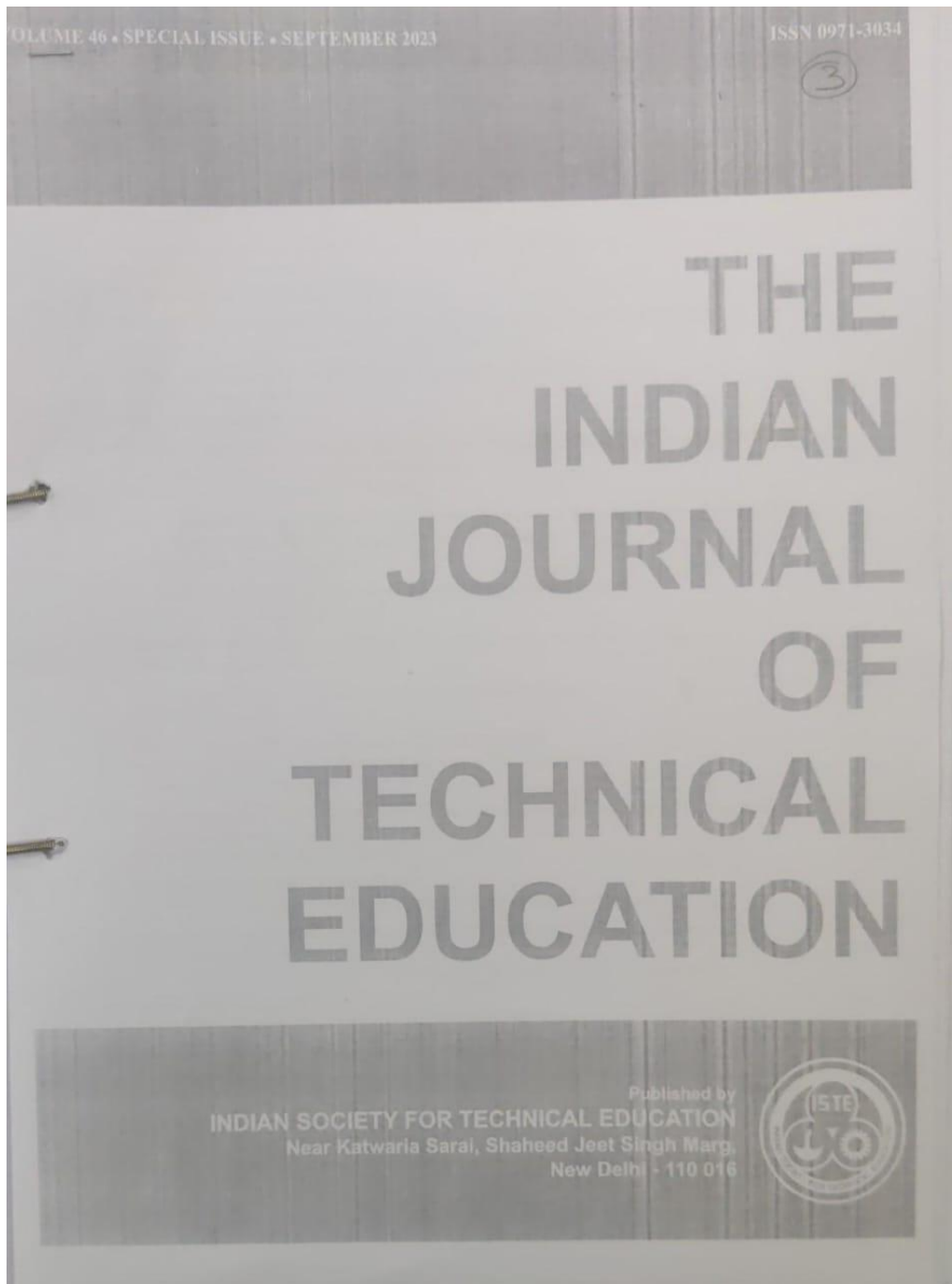






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## Deflection Behaviour Due to the Response of the Caputo-Fabrizio Fractional Derivative in a Thermoelastic Disc with Heat Generation

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### ABSTRACT

Analytical analysis is performed to study the distortion produced by thermal variation in a fixed, clamped annular disc that is exposed to an internal source of heat. The bottom and top faces of the annular disc, as well as both its inner and external curved surfaces, maintain the boundaries of convective interchange of heat. The fundamental equation with the time fraction is solved using the analytical approach of integral transformation. The temperature and heat deviation measurements that were made are calculated numerically considering the material properties of a copper metal disc and are presented graphically.

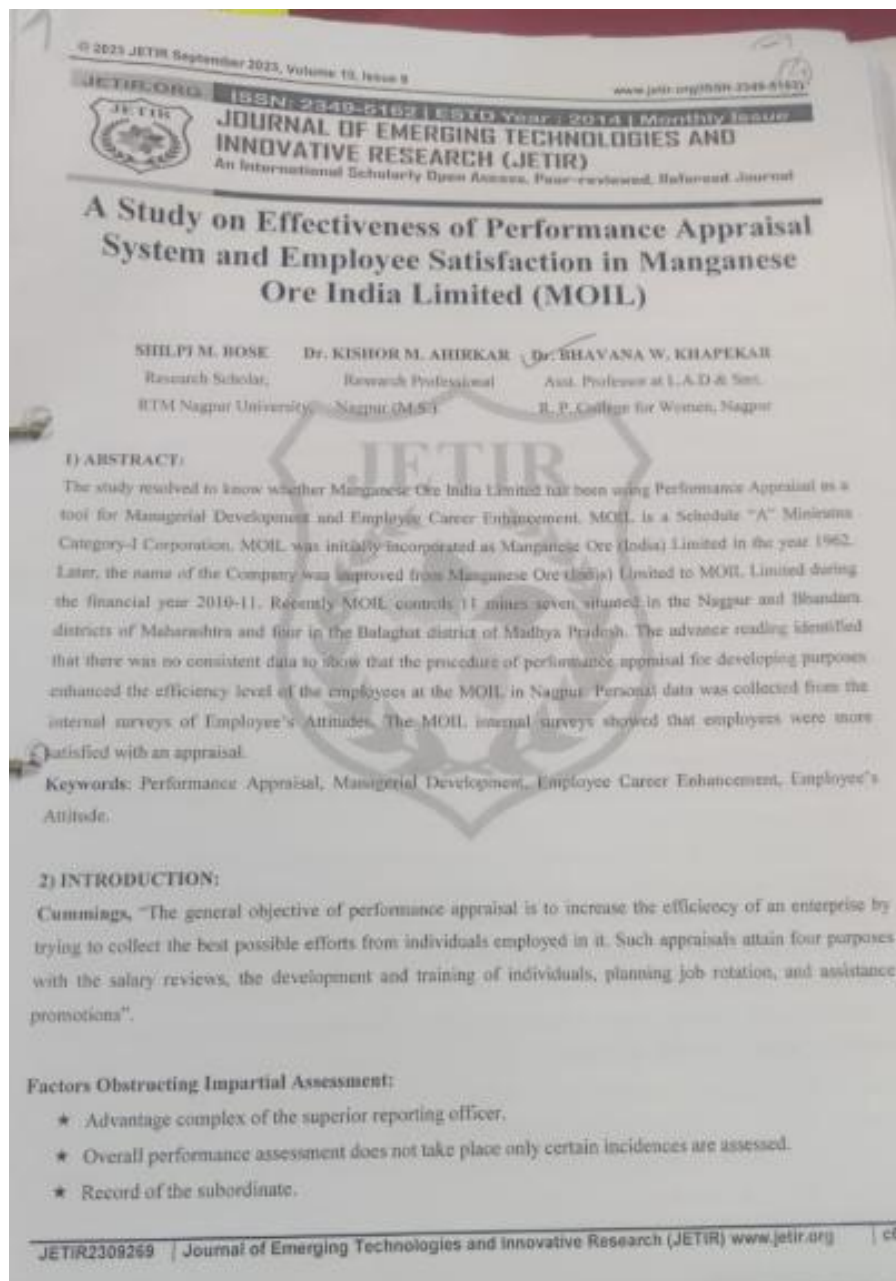
**KEYWORDS:** Annular disc, Caputo-Fabrizio, Fractional operator, Heat generation, Deflection, Temperature.

### INTRODUCTION

Since the last decade, the study of fractional order thermoelasticity has been in great demand due to its ability to predict the delayed response, which is important in many physical processes and applicable to real-world problems. Many researchers, engineers, mathematicians, and scientists are working hard to understand the exact phenomenon of physical observations occurring at the microscopic level and its application in developing structural designs. Using fractal theory, Povstenko [6] studied one- and two-dimensional temperature equations and discovered the stress functions. Povstenko [7] used spatiotemporal fractal derivatives and determined their influence on various solids. Youssef [8] considered a modified heat transfer equation and described a new thermoelastic theory with fractal parameters and proved its uniqueness. Povstenko [9, 10] determined the thermal

stress distributions in a medium with infinite range by considering the effect of a radial heat conduction equation with a cylindrical cavity under fractal theory.

Ezzat [11] described the modelling of magneto-thermoelasticity by considering the concept of fractional approach. Ezzat [12] solved a 1D thermoelastic problem using the analytical transformation technique within the range of fractional elasticity. Ezzat and Ezzat [14] explained the applications of porous materials using fractional order thermoelasticity. In recent years, many other researchers [18, 20 and 21] have also made an important contribution to the study of thermal behaviour in the development of thermoelasticity. Shaikh et al [15] proved the existence and uniqueness criteria and discussed the effects of Caputo-Fabrizio reaction with nonlinear differential equations. Yezzer and Gomez [16] determined the behaviour of the nonlinear fractional heat equation using the Caputo-Fabrizio operator. Amal











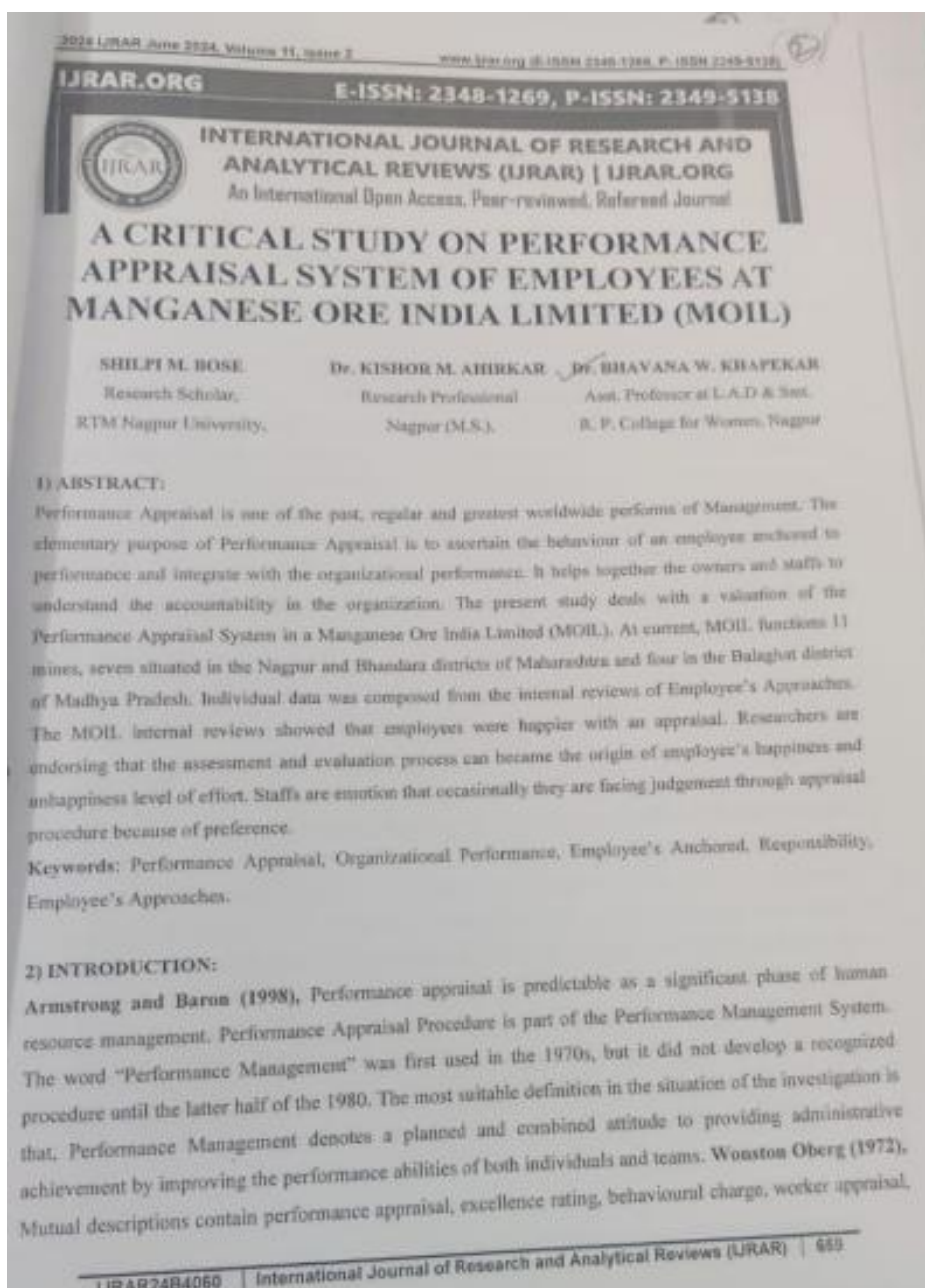


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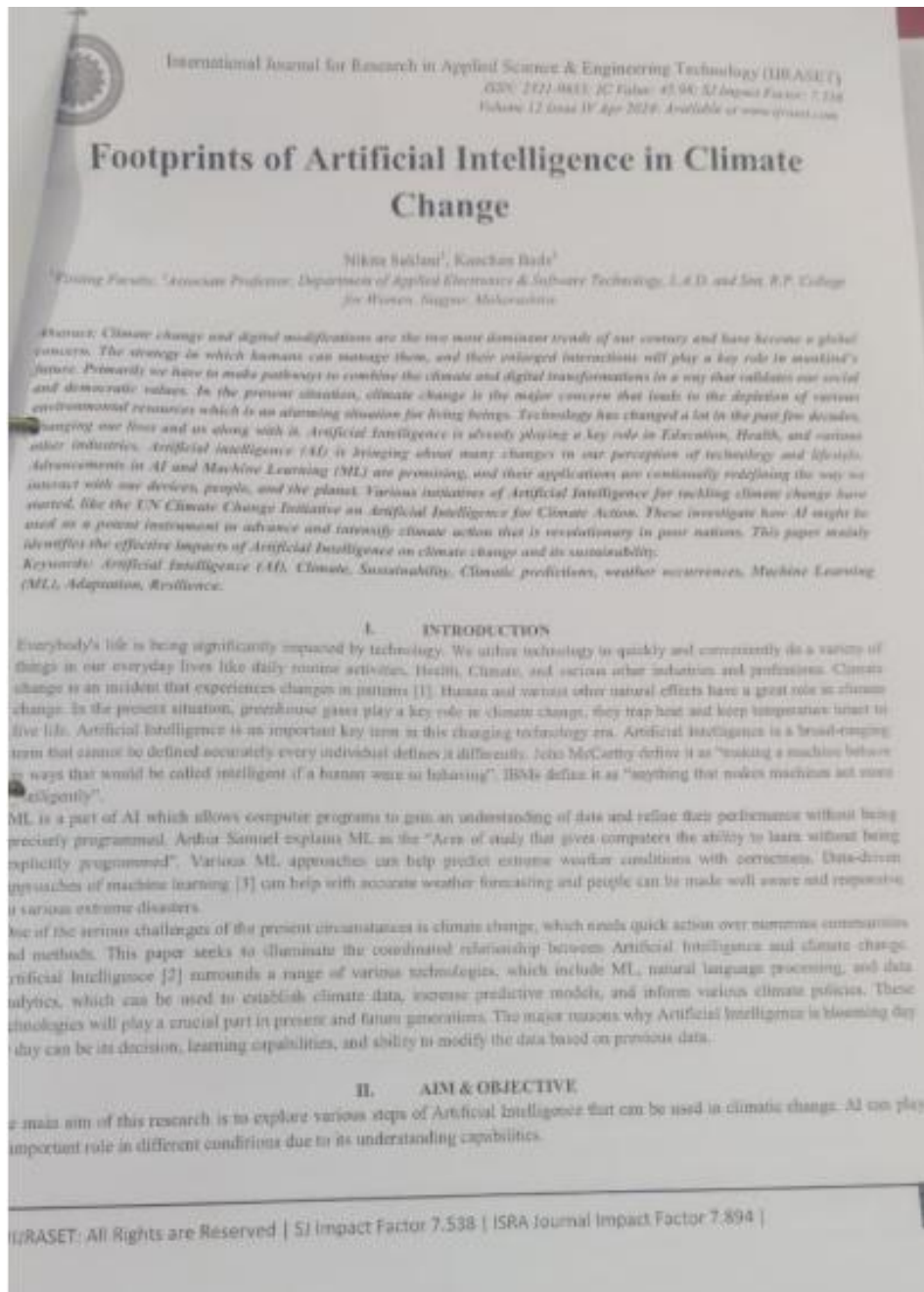
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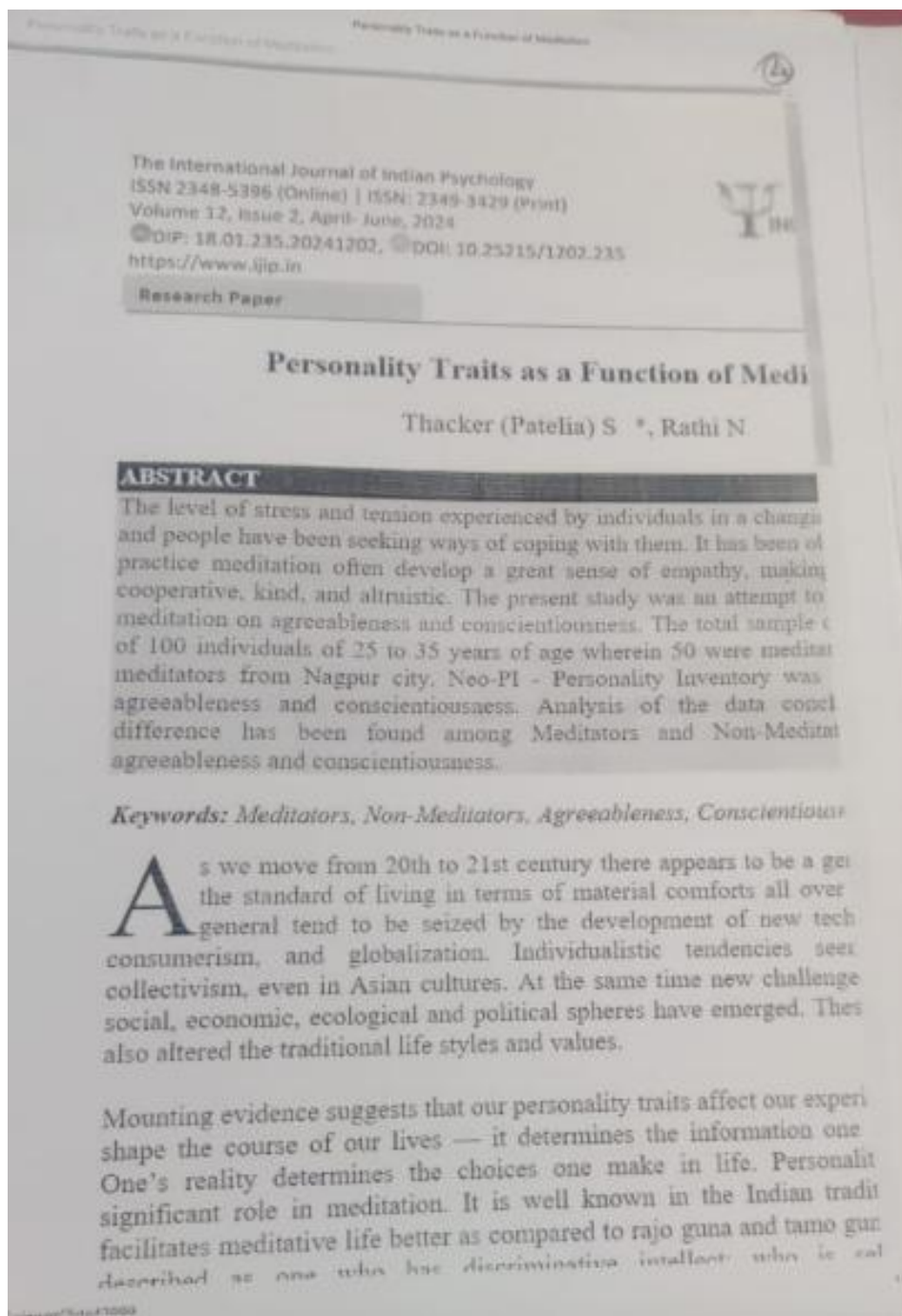
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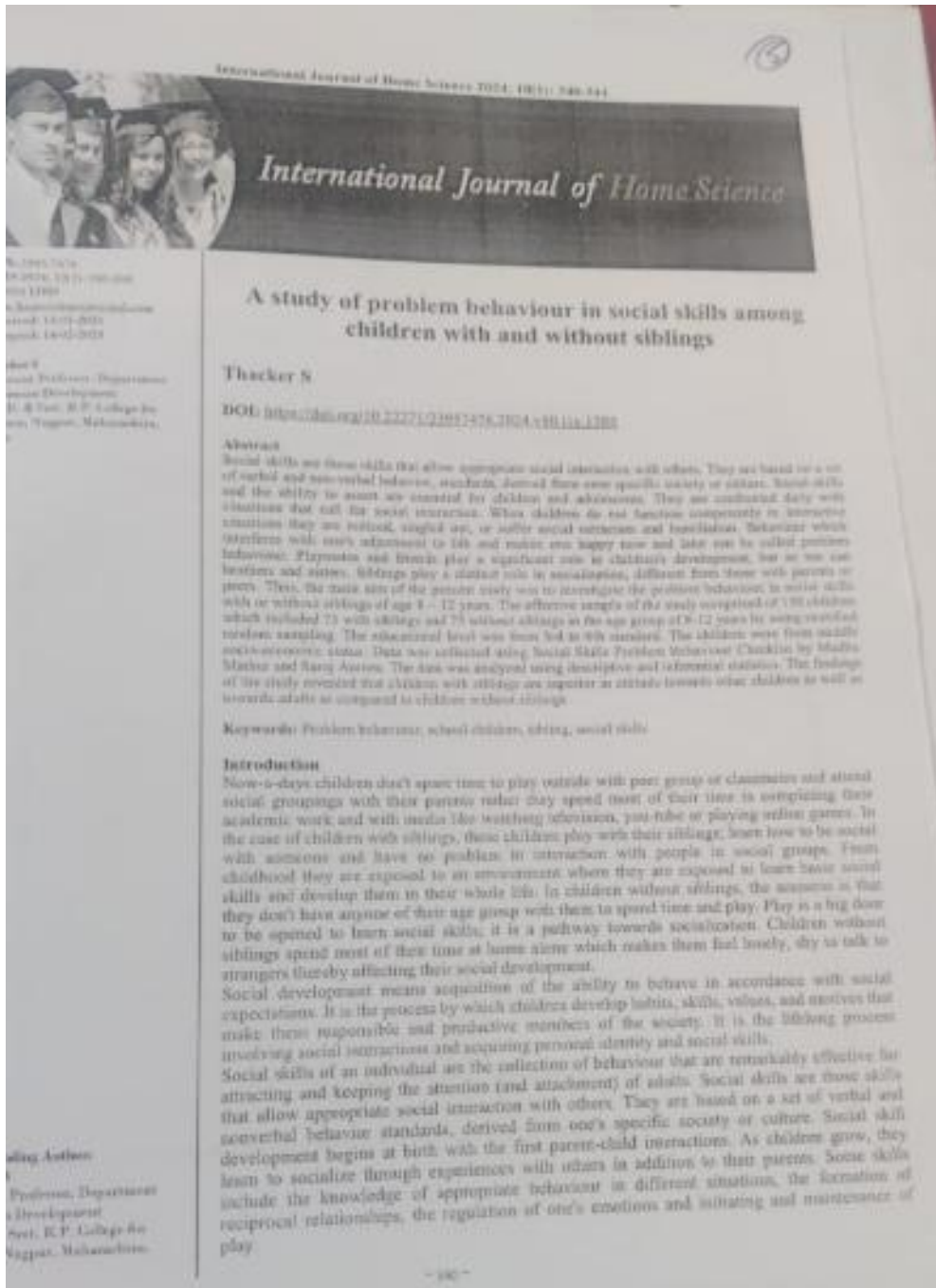
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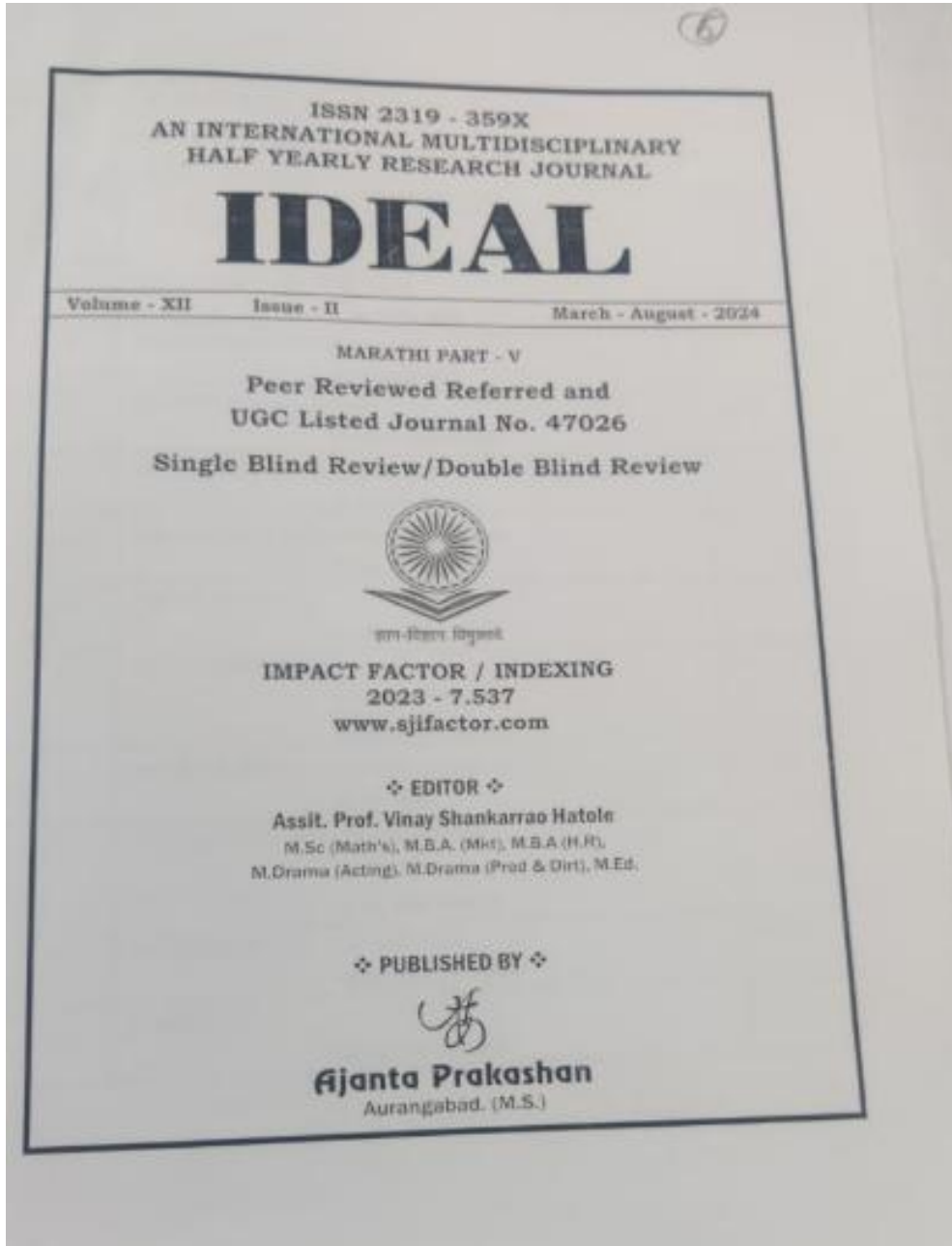














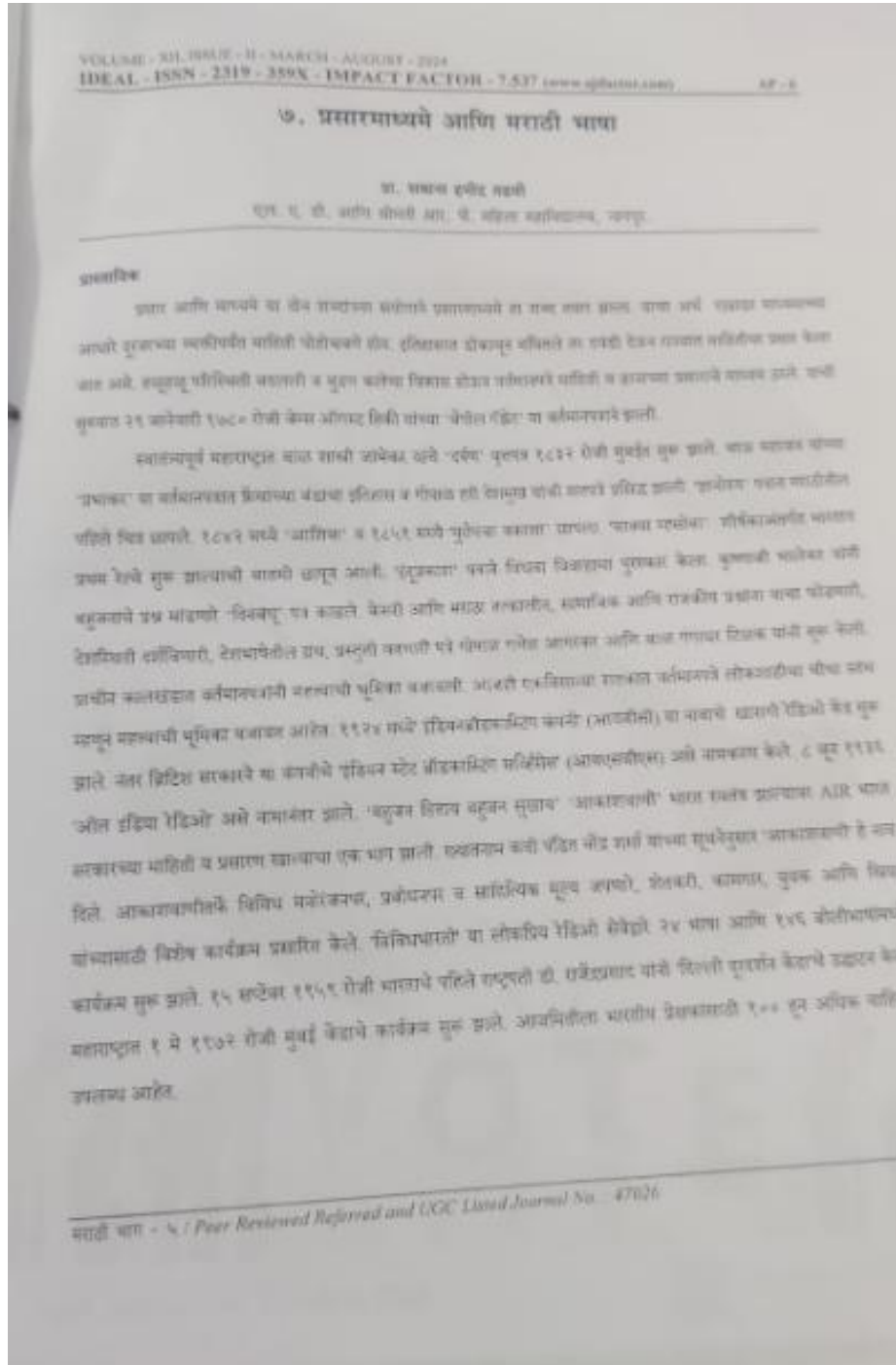
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