As Per Sant Gadge Baba Amravati University Syllabus (under CBCS)

A Textbook of B.Sc. Second year course in



Cell Biology, Genetics and Plant Breeding Semester - IV

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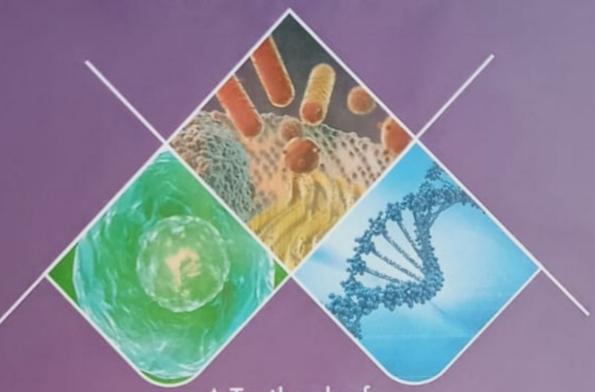
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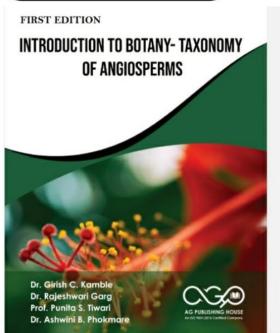
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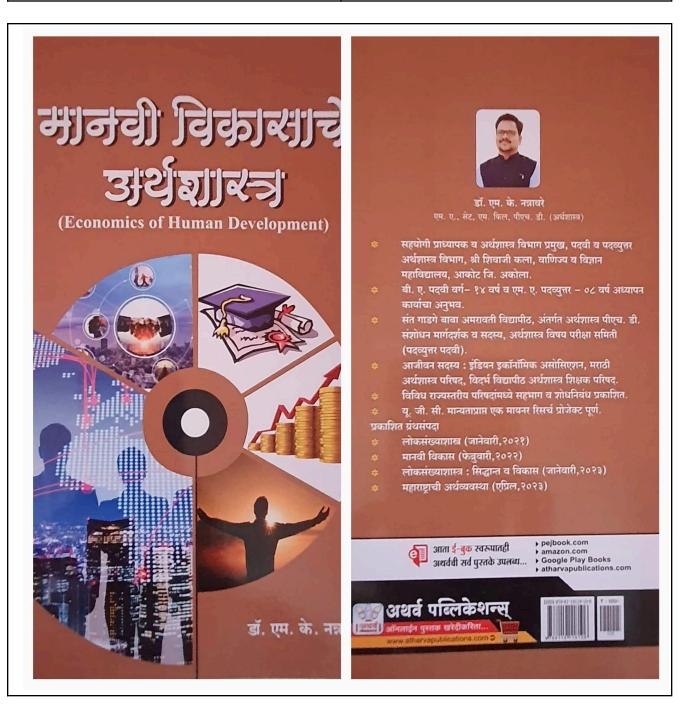
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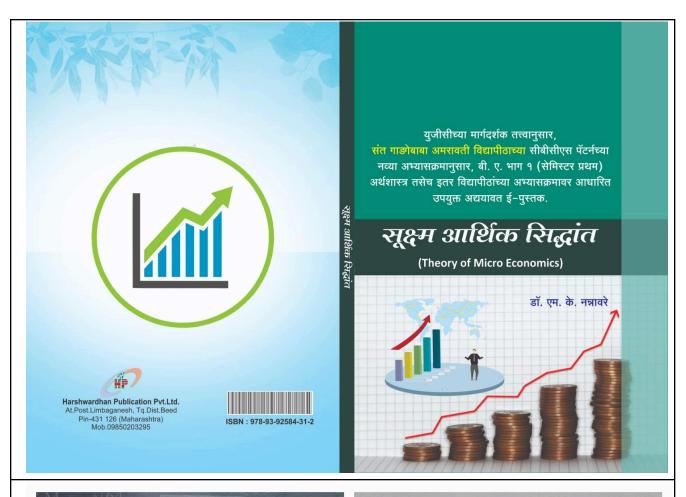
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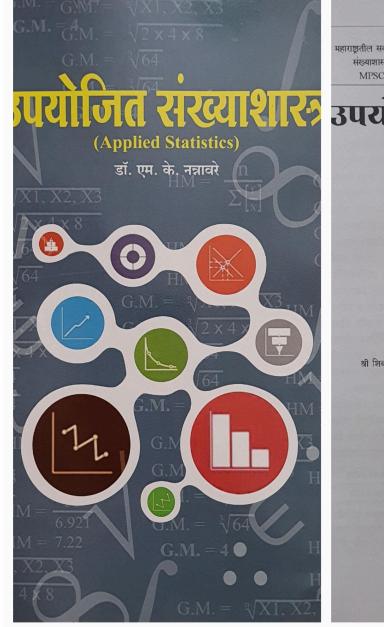
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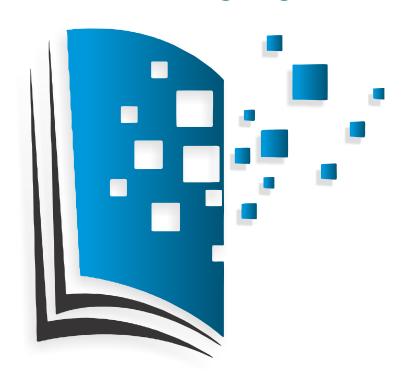
Learning Beyond the CLASSROOM: Higher Education for a Changing World



Edited by : Dr. Rita T. Deshmukh

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for a Changing World



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Learning in the Digital Age: Revolutionizing Education with Modern Technology

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Abstract:

Technology has certainly changed the way we live. It has impacted different facets of life and redefined living. Undoubtedly, technology plays an important role in every sphere of life. Several manual tasks can be automated, thanks to technology. Also, many complex and critical processes can be carried out with ease and greater efficiency with the help of modern technology. Thanks to the application of technology, living has changed and it has changed for the better. In this age, we find ourselves standing on the cusp of an educational revolution, with technology serving as the catalyst. The importance of technology in schools cannot be ignored. In fact, with the onset of computers in education, it has become easier for teachers to impart knowledge and for students to acquire it. The use of technology has made the process of teaching and learning all the more enjoyable.

This article explores the profound impact of modern technology on education, heralding a transformative era where learning transcends traditional boundaries. Drawing upon the analogy of technology as a divine gift, the narrative unveils how it has revolutionized various aspects of life and subsequently reshaped the educational landscape. The central focus is on the role of technology in schools, emphasizing how it has eased the dissemination of knowledge, empowered personalized learning, and fostered global collaboration. The integration of virtual reality, artificial intelligence, and blockchain technology is examined, underscoring their pivotal contributions to the redefinition of education. Furthermore, the article delves into the automation of manual tasks, environmental sustainability, and the gamification of learning as key facets of this educational revolution. The narrative concludes by emphasizing that modern technology is not merely a tool but a catalyst that redefines the learning experience, making it dynamic, engaging, and globally accessible.

Keywords:

Technology, Education, Revolution, Digital Age, Personalized Learning, Virtual Reality, Artificial Intelligence. Introduction:

The 21st century, often regarded as the "era of technology," has undeniably ushered in an unprecedented wave of innovation and transformation across all facets of our lives. From the moment we wake up to the time we go to bed, technology has become an indispensable companion, intricately woven into the fabric of our daily existence. In this digital age, it is more than just a tool; it is a defining force, steering the course of human progress and shaping the trajectory of nations. The role of technology in our contemporary world extends far beyond mere convenience; it stands as the bedrock of economic growth and global competitiveness. In today's landscape, an economy that lags in technological advancement risks being left in the shadows of progress and development. The pervasive influence of technology is profound, and its contribution to our lives cannot be overstated. It has granted us unprecedented convenience, making our tasks more manageable, our endeavors more efficient, and our lives less time-consuming. From the ease of communication through smartphones to the revolutionary strides in healthcare and transportation, technology has left an indelible mark on every aspect of our existence.

Yet, amid this grand tapestry of technological transformation, one arena shines as a vivid testament to its unparalleled impact: education. In an era where knowledge is the currency of success and adaptability is the key to survival, education stands at the forefront of societal progress. The manner in which we acquire knowledge, share information, and cultivate skills has been irrevocably altered by the inexorable march of technology. This article is an exploration of the profound metamorphosis technology has wrought upon the educational landscape. It examines how the symbiotic relationship between technology and education has engendered a revolution, offering new avenues for learning and revolutionizing the very essence of teaching. In the following pages, we will delve into the myriad ways in which technology has disrupted traditional educational paradigms, ushering in an age where learning is not confined by classroom walls or restricted by geography.

From virtual reality to artificial intelligence, blockchain technology to gamification, technology is redefining the contours of modern education, making it more personalized, engaging, and accessible than ever before. The impact of technology in education extends beyond the classroom; it has permeated the administrative tasks, the assessment methodologies, and even the way educational credentials are verified. As we traverse the intricate web of this technological revolution in education, it becomes evident that this is not merely a surface-level transformation. It is a seismic shift that has the potential to empower learners, democratize access to knowledge, and break down the barriers that once hindered progress. The nexus between education and technology is a testament to the unending quest for knowledge and the limitless possibilities that the digital age has unlocked. In this dynamic interplay between the virtual and the real, we glimpse a future where education knows no bounds, and learning is a lifelong adventure in the digital age.

Objectives of Study:

- To provide a comprehensive overview of the profound impact of modern technology on education in the 21st century.
- To analyze the ways in which technology has transformed traditional educational methods and paradigms.
- To explore the role of technology in personalized learning and how it caters to the individual needs and preferences of students.
- 4. To investigate the global collaboration facilitated by technology in the educational context, transcending geographical boundaries.

Research Methodology:

The research methodology employed for this study encompasses a multifaceted approach to comprehensively investigate the impact of technology on education in the 21st century. It begins with an extensive review of existing literature, delving into academic journals, books, research papers, and pertinent reports to establish a foundation of knowledge in the field. Employing both quantitative and qualitative analyses, the study aims to discern trends, patterns, and the overall impact of technology on education. By comparing and contrasting institutions with varying levels of technology integration, the research seeks to offer insights into the effectiveness and implications of technology in education. Furthermore, the assessment of specific technologies, environmental sustainability aspects, pedagogical approaches, and consideration of emerging trends and challenges will contribute to a comprehensive understanding of this evolving educational landscape. Ultimately, this research methodology is designed to provide practical recommendations for a wide range of stakeholders, facilitating the optimization of technology's role in education.

Literature Review:

The integration of technology into education has sparked a paradigm shift that has been extensively documented in the literature. This review consists of the multifaceted impact of technology on education, encapsulating several significant themes. Personalized learning emerges as a prominent concept, as studies reveal that technology, particularly artificial intelligence and adaptive learning platforms, enables educators to tailor instruction to individual students' needs. The result is a more dynamic and effective educational experience (Vygotsky, 1978; Anderson et al., 1985). Additionally, technology has fostered global collaboration in education, breaking down geographical barriers through online platforms and collaborative learning (Dede, 1996; Keegan, 1996). The advent of immersive technologies, such as virtual reality and augmented reality, has transformed learning environments by enhancing student engagement and knowledge retention (Dalgarno & Lee, 2010; Huang & Huang, 2019). This review underscores the profound impact of technology on education and sets the stage for a deeper exploration of its evolving role in shaping the future of learning and teaching.

Data Analysis:

According to recent insights, modern students prefer using technology as it enhances their learning experience. They find it more interactive and engaging, making knowledge transfer easier and more effective. This reliance on technology is unavoidable, even in educational institutions. The internet's significance in education has grown immensely over the last decade, offering students a plethora of resources and convenience. It has become an integral part of daily life, from television to smartphones, providing access to tutorials and academic materials for enhanced learning. Projectors and visual aids have made learning more interactive and appealing in top institutions, boosting motivation and efficiency. The digital footprint in education has fostered 24/7 connectivity and access to various learning resources. Online degrees, facilitated by technology and internet applications, have gained popularity, particularly among working students seeking flexible study options. Technology has seamlessly woven itself into the educational fabric, becoming an integral component of the curriculum, instructional delivery, and a valuable tool to enhance the learning process. Thanks to technology, education has evolved from being passive and reactive to becoming interactive and dynamic.

In both corporate and academic settings, education plays a pivotal role. In the corporate world, it serves as a means to empower employees to adopt new approaches and skills. Conversely, in academia, education ignites curiosity and nurtures the minds of students. Regardless of the setting, the integration of technology serves to improve students' comprehension and retention of crucial concepts.

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Positive Impact on Student Learning:

Technology's rapid evolution, though occasionally challenging for educators, offers numerous benefits for student learning. Its integration in schools has demonstrated advantages such as self-paced learning, which can be challenging in whole group settings, and individualized instruction that supports students' strengths and addresses their weaknesses (Bulman & Fairlie, 20-23). Technology also facilitates faster feedback and enhances collaborative efforts among larger groups. Interactive whiteboards simplify teaching, providing students with improved visual aids and making lessons more engaging for educators. Mobile devices enable rapid information dissemination (Simuforosa 4). Furthermore, integrating technology and peer-led discussions about literature can significantly boost student engagement and motivation. This approach offers an accessible and motivating way to expose students to different ideas and cultures. Online literature discussions create a sense of community and encourage positive social interaction. Overall, technology's positive impact on education is evident in its ability to enhance learning experiences and facilitate diverse forms of engagement. Computer-based literacy programs have transformed the assessment and evaluation of English Language Learners (ELLs) in elementary and secondary classrooms. These programs offer a wide range of accommodations, surpassing traditional "pencil and paper assessments." An exemplary approach is the integration of computer programming with aids like bilingual dictionaries, pop-up glossaries, and read-aloud options. This combination effectively levels the playing field for ELLs, providing accessible and user-friendly support to keep them on par with their peers.

Negative Health Impact:

The integration of technology in education ushers in a multitude of advantages, but it's imperative to acknowledge and address the accompanying drawbacks and potential health risks. Social learning theory emphasizes the role of adolescents learning through imitation, which can have significant implications when it comes to what they observe on screens. Concurrently, the super-peer theory underscores how media can inadvertently normalize risky behaviors, potentially interfering with the educational process. Furthermore, excessive screen time can lead to a decline in academic performance, as it diverts students' attention away from their studies and impairs their concentration (Simuforosa 5). In addition to the distractions and imitative behaviors induced by technology, the negative impacts extend to students' health and well-being. The use of computer games, television, and technological devices can disrupt the quality of sleep in adolescents, subsequently affecting their academic performance. Poor sleep quality, often linked to technology

addiction, can lead to difficulties in comprehending educational material. Effective learning requires a focused mind and body, and any distractions, whether they be tiredness, hunger, or emotional stress, can hinder a student's capacity to fully engage with and grasp the content being taught (Strom, 13). In the quest for a harmonious relationship between technology and education, it is crucial to strike a balance between the benefits and potential drawbacks. It is here that the importance of comprehensive well-being comes into play. Finding the equilibrium between technology use and students' overall health is essential for effective and productive learning. It is only by addressing these challenges that we can maximize the transformative potential of technology while nurturing holistic well-being in the educational journey. Additionally, it is worth considering the impact on creativity, where the sheer abundance of information on the internet can inadvertently stifle original thought as students often resort to copying and pasting content to achieve better grades. This highlights the importance of fostering critical thinking and originality alongside the use of technology in education.

Conclusion:

In summary, the incorporation of technology into the realm of education presents a complex and multifaceted landscape. While it undeniably brings forth a multitude of benefits, such as personalized learning, enhanced student engagement, and expanded access to knowledge, it does not come without its share of challenges. These challenges encompass potential health risks, the allure of distractions, and the risk of stifling creativity. The overuse or misuse of technology can even detrimentally impact academic performance and impair students' concentration on their educational tasks. The key to successfully harnessing the power of technology in education lies in finding equilibrium, where the advantages are maximized, and the disadvantages are mitigated. Striking this balance is crucial to ensure that technology remains a potent instrument for learning and development. Educators and educational institutions must navigate these challenges judiciously, providing the necessary guidance and resources to make the most of technology's potential in the ever-evolving landscape of modern education. By doing so, we can harness the transformative capabilities of technology to empower and inspire the learners of today and tomorrow.

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HUMAN RIGHTS

in a Changing World: Challenges and Opportunities

-: Editor :-

Dr. Yogesh D.Ugale



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भारतातील मानव अधिकार आणि महिला



डॉ. संतोष कायंदे,

प्राध्यापक व राज्यशास्त्र विभाग प्रमुख श्री शिवाजी महाविद्यालय अकोट

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सारांश:

भारतामध्ये मानव अधिकाराला संविधानिक स्थान प्राप्त झाले आहे. संविधानाच्या तिसऱ्या व चौथ्या प्रकरणांमध्ये यासंबंधीची तरतूद केलेली आहे. भारतीय संस्कृती पुरुषप्रधान संस्कृती आहे. सामान्यपणे समाजामध्ये स्त्रियांना नेहमीच दुय्यम स्थान देण्यात आले आहे. परिणामी आपल्या मानव अधिकारासाठी स्त्रियांना अधिक संघर्ष करावा लागतो. संविधानिक तरतूद आणि कायदे असूनही महिलांच्या मानव अधिकार हाणनासंबंधी आणि त्यांच्यावर होणाऱ्या अन्याय अत्याचारासंबंधीच्या घटना वाढतच चालल्या आहेत. या पार्श्वभूमीवर भारतातील महिलांच्या मानव अधिकारासंबंधीची स्थिती स्पष्ट करून त्यासंबंधी काही उपाय सुचविण्याचा प्रस्तुत शोधनिबंधाचा उद्देश आहे.

संविधानिक स्थिती:

भारताच्या संविधानामध्ये धर्म ,जात, वंश, लिंग, वर्ण व रंग या आधारावर भेदभाव न करता सर्वांना समान समजले आहे आणि सर्वांना राजकीय, नागरी ,आर्थिक, सामाजिक, धार्मिक व सांस्कृतिक अधिकार प्रदान केले आहेत.संबंधित अधिकार संविधानाच्या तिसऱ्या भागात मूलभूत अधिकाराच्या अंतर्गत समाविष्ट आहेत. संबंधित अधिकार अनुलंगणीय असून त्याचे उल्लंघन झाल्यास न्यायालयात दाद मागता येते. इतकेच नाही तर संसद सुद्धा संविधानामध्ये दुरुस्ती करून या अधिकाराचा संकोच करू शकत नाही.

संविधानामध्ये अनुच्छेद १४,१५ (१), १६ (१),१९ (१) (क),१९ (२) (ख),२०,२१,२५ असे आहेत ज्यामध्ये मानव अधिकारासंबंधी तरतूद केलेली आहे. संविधानाच्या चौथ्या भागात अनुच्छेद ३६ ते ५१ पर्यंत राज्यनीतीच्या मार्गदर्शक तत्त्वासंबंधी तरतूद केली आहे.हा भाग न्यायालयीन संरक्षणाखाली नसला तरी मानव अधिकाराच्या दृष्टीने अधिक महत्त्वाचा ठरतो.

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SBN: 978-81-970389-0-7 अशा दोहोंना मतदानाचा समान केला आहे. वधिकार प्रदान केला आहे.

क्षानिक स्थिती :

d Science.

संविधानिक तरतुदीशिवाय महिलांसाठी अनेक महत्त्वपूर्ण कायदे करण्यात आले आहेत. प्रतिसंध कारणा महिलांशी संबंधित अशा दोन्ही प्रकाराचा समावेश होतो. त्यापैकी अम्बर्ध प्रतिबंध कायदा १९५६, हुंडा प्रतिबंध कायदा १९६१ - १९८६, महिला असभ्य विवेश कायदा १९८७, सती आयोग प्रतिबंध कायदा १९८७, कौटुंबिक हिंसेपासून महिलांना विद्यान प्राप्त २००५ या प्रमुख कायद्याचा समावेश प्रत्यक्ष महिलांसाठी केलेल्या कायद्यामध्ये होतो. तर महिलांशी संबंधित असलेल्या अन्य कायद्याची संख्या ४० पेक्षा जास्त आहे.

व्यस्तिवक स्थिती:

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आपल्या देशामध्ये महिलांच्या स्थितीमध्ये प्राचीन काळापासून अनेक स्थित्यंतरे घडून प्रधान भाली आहेत. वैदिक काळात महिलांना पुरुषाच्या बरोबरीचे समान स्थान होते.शिक्षणामुळे लामी महिलांच्या बाबतीत सन्मानाची भावना होती. यासंबंधीचा उल्लेख मनुस्मृतीमध्ये आढळतो. आिष मध्यकाळात अनेक आक्रमणे झाली. ज्यामुळे समाजाची सुरक्षितता धोक्यात आली. त्याचा परिणाम त्याय शक्षण व्यवस्थेवर झाला. शिक्षण आणि साहित्यापासून महिलांचा संपर्क नष्ट झाला. याच काळात महिला खऱ्या अर्थाने पडद्याच्या आत बंदी झाली. आधुनिक काळातील महिला जीवनाच्या प्रत्येक क्षेत्रामध्ये पुरुषांच्या बरोबरीने कार्य करीत आहे. असे असले तरी ती आधीपेक्षा अधिक असुरक्षित झाली आहे.

आंतरराष्ट्रीय महिला वर्ष, महिला दशक, इंटरनॅशनल इयर ऑफ गर्ल चाइल्ड आणि महिला सबलीकरण वर्ष २००१ साजरे करण्यात आले. यावरून हेच सिद्ध होते की स्वातंत्र्यानंतर ७५ व वर्षाचा काळ झाला असला तरी संविधानाने प्रदान केलेल्या मानव अधिकारापासून महिला वंचित भूत गहिल्या आहेत.

टाइम्स ऑफ इंडिया प्रकाशनाच्या महिला समस्यांवर आधारित मासिकाच्या अंकामध्ये संपादकीय लेखात महिलांच्या शोषणासंबंधी असे लिहिले होते-लगता था आजादी के बाद महिलाओं की स्थिती भी बेहत्तर होगी नई आधुनिकता समाज में जागृती लायेगी और महिलाए पुरुषो की तरह समाज मे समान अवसर पाकर एक नये समाज की संरचना मे हात बटायेगी, लेकिन दुर्भाग्य से वैसा हुआ नही है। महिलाये आगे जरूर आई है और आज लगभग हर क्षेत्र में वह पहिले की तुलना मे गादा दिखाई दे रही है पर महिला उत्पीडण की घटनाये कम नहीं हुई है। यह भी एक सच्चाई है की उत्पीडन के तोर तरीको में भलेही फर्क हो, पर शहरी और ग्रामीण स्त्रिया समान रूप से अवहेलना, उपेक्षा और दमन की शिकार हो रही है

Publishing Year: 2024 978-81-970389-0-7 महिलांच्या मानव अधिकाराचे संरक्षण करण्यासंबंधी असलेल्या कायद्याच्या वाबनीत महिलांच्या मानव अधिकाराचे संरक्षण करण्यासंबंधी असलेल्या कायद्याच्या वाबनीत महिलांच्या मानव आधकारा न भहिलांच्या मानव आधकारा जनतेमध्ये विशेषतः ग्रामीण भागामध्ये जनजागृती केली आणि राष्ट्रीय महिला आयोगासंबंधी सामान्य जनतेमध्ये विशेषतः ग्रामीण भागामध्ये जनजागृती केली आणि राष्ट्रीय महिला आयोगासबया रा... आणि राष्ट्रीय महिला आयोग, स्वयंसेवी केली पाहिजे. त्यासाठी शासन, राष्ट्रीय मानव अधिकार आयोग, राष्ट्रीय महिला आयोग, स्वयंसेवी संघटना अशा सर्व स्तरातून सकारात्मक प्रयत्नाची गरज आहे.

भारतातील मानव अधिकार आणि महिला :

मानव अधिकार मानव जातीच्या विकासासाठी आणि मानवाच्या प्रतिष्ठेसाठी मूलभूत मानव आधकार मानव आपल्या अधिकारासाठी जागतिक स्तरावर प्रयत्न करीत असून विविध अशी बाब आहे. मानव आपल्या अधिकारासाठी जागतिक स्तरावर प्रयत्न करीत असून विविध अशी बाब आहे. मानव आपत्या जा जातून विविध मार्गाने संघर्ष करीत आहे. यासंबंधीचा इतिहास अतिशय प्राचीन आहे. सन १२१५ चा मँगा कार्टा, श्हा वा बंदी प्रत्यक्ष करण अधिनियम ,१६२८ चा पिटीशन ऑफ राइट्स ,१६८९ चा बिल ऑफ रहर्स, १७७६ चे अमेरिकन स्वातंत्र्याचे घोषणापत्र, १७८९ ची फ्रान्सची मानव अधिकारासंबंधीची राइट्स, १७७६ च जनारकार प्राचित्र राष्ट्रसंघाचा मानवी अधिकाराचा जाहीरनामा या बाबी मानव अधिकार प्राप्त करण्यासाठी कराव्या लागलेल्या संघर्षाच्या इतिहासातील महत्त्वाचे टप्पे आहेत.

भारतामध्ये मानव अधिकाराला संविधानिक स्थान प्राप्त झाले आहे. संविधानाच्या तिसऱ्या व चौथ्या प्रकरणांमध्ये यासंबंधीची तरतूद केलेली आहे. भारतीय संस्कृती पुरुषप्रधान संस्कृती आहे. सामान्यपणे समाजामध्ये स्त्रियांना नेहमीच दुय्यम स्थान देण्यात आले आहे. परिणामी आपल्या मानव अधिकारासाठी स्त्रियांना अधिक संघर्ष करावा लागतो. संविधानिक तरतूद आणि कायदे असूनही महिलांच्या मानव अधिकार हाणनासंबंधी आणि त्यांच्यावर होणाऱ्या अन्याय अत्याचारासंबंधीच्या घटना वाढतच चालल्या आहेत. या पार्श्वभूमीवर भारतातील महिलांच्या मानव अधिकारासंबंधीची स्थिती स्पष्ट करून त्यासंबंधी काही उपाय सुचविण्याचा प्रस्तुत शोधनिबंधाचा उद्देश आहे.

संविधानिक स्थिती:

भारताच्या संविधानामध्ये धर्म ,जात, वंश, लिंग, वर्ण व रंग या आधारावर भेदभाव न करता सर्वांना समान समजले आहे आणि सर्वांना राजकीय, नागरी, आर्थिक, सामाजिक, धार्मिक व सांस्कृतिक अधिकार प्रदान केले आहेत.संबंधित अधिकार संविधानाच्या तिसऱ्या भागात मूलभूत अधिकाराच्या अंतर्गत समाविष्ट आहेत. संबंधित अधिकार अनुलंगणीय असून त्याचे उल्लंघ झाल्यास न्यायालयात दाद मागता येते. इतकेच नाही तर संसद सुद्धा संविधानामध्ये दुरुस्ती करून य अधिकाराचा संकोच करू शकत नाही.

संविधानामध्ये अनुच्छेद १४,१५ (१), १६ (१),१९ (१) (क),१९ (२) (ख),२० २१,२५ असे आहेत ज्यामध्ये मानव अधिकारासंबंधी तरतूद केलेली आहे. संविधानाच्या चौथ्य

Publishing Year: 2024

2024 वावतीत ती केली संघटना

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SEL 078-81-970389-0-7 कें अनु रहोद ३६ ते ५१ पर्यंत राज्यनीतीच्या मार्गदर्शक तत्त्वासंबंधी तस्तूद केली आहे.हा भाग अनुस्कर्प संरक्षणाखाली नसला तरी मानव अधिकाराच्या दृष्टीने अधिक महत्त्वाचा ठरतो. विधानाच्या अनुच्छेद ३२५ नुसार स्त्री आणि पुरुष अशा दोहोंना मतदानाचा समान हकार प्रदान केला आहे.

शानिक स्थिती :

संविधानिक तरतुदीशिवाय महिलांसाठी अनेक महत्त्वपूर्ण कायदे करण्यात आले आहेत. मूलभूत वह प्रत्यक्ष महिलांसाठी आणि महिलांशी संबंधित अशा दोन्ही प्रकाराचा समावेश होतो. त्यापैकी विविध क्षेतिक व्यापार प्रतिबंध कायदा १९५६, हुंडा प्रतिबंध कायदा १९६१ - १९८६, महिला असभ्य ूर्धन प्रतिबंध कायदा १९८७, सती आयोग प्रतिबंध कायदा १९८७, कौटुंबिक हिंसेपासून महिलांना क्षण कायदा २००५ या प्रमुख कायद्याचा समावेश प्रत्यक्ष महिलांसाठी केलेल्या कायद्यामध्ये तो. तर महिलांशी संबंधित असलेल्या अन्य कायद्याची संख्या ४० पेक्षा जास्त आहे. यामध्ये जतीय दंड संहिता १८६०, भारतीय साक्ष कायदा १८७२, विवाहित महिला मालमत्ता कायदा ७४, बाल प्रतिबंध कायदा १९२९, मुस्लिम वयक्तिक (शरीयत) कायदा १९३७, किमान वेतन जयदा १९४८, कंपनी कायदा १९४८ ,हिंदू विवाह कायदा १९५५ ,विदेशी विवाह कायदा १९६९, गतीय तलाक कायदा १९६९, गुन्हेगारी प्रक्रिया संहिता १९७३, कौटुंबिक न्यायालय कायदा ९८४, मानसिक आरोग्य कायदा १९८७, महिलांसाठी राष्ट्रीय आयोग कायदा १९९० ,मानव भिकार संरक्षण कायदा १९९३ यांचा प्रामुख्याने समावेश होतो. त्यापैकी भारतीय दंड संहिता भयदा महिलांच्या मानव अधिकाराच्या संरक्षणासाठी अधिक महत्त्वाचा ठरतो. छेडछाड, अपहरण, लात्कार, हत्या असे सर्व गुन्हे दंडसंहितेला अनुसरून शिक्षापात्र गुन्हे आहेत. यासंबंधी दंड हितेच्या कलम ३६३, ३६६ ए, ३५४,५०९, ३६७, ३७३, ३७५, ३७६ व ३७७ मध्ये शिक्षेची मतूद केली आहे. महिलांच्या असभ्य प्रदर्शनाला रोखण्यासंबंधी भारतीय दंड संहितेच्या कलम ४२, २९३ आणि २९४ मध्ये तरतूद केलेली आहे. महिलांच्या मानव अधिकाराच्या संरक्षणासाठी उ संहितेचे कलम ९८, ५१- २ आणि १६७ अधिक महत्त्वपूर्ण आहे. दुसरी महत्त्वाची बाब म्हणजे हिलांच्या मानव अधिकाराचे संरक्षण करण्यासाठी सन १९९० मध्ये महिला आयोग अधिनियम मित केला गेला. त्याला अनुसरून १९९२ मध्ये राष्ट्रीय महिला आयोगाची स्थापना झाली. मानव अधिकाराच्या उल्लंघना संबंधीच्या बाबींवर राष्ट्रीय महिला आयोगाला सक्रिय कारवाई करण्याचा भिधकार आहे. जर कारागृहामध्ये किंवा पोलीस संरक्षणामध्ये मानव अधिकाराचे उल्लंघन झाल्याचे मद्ध होत असेल तर कारागृह अधिकारी आणि पोलीस यांच्याविरुद्ध कारवाई करण्याचा अधिकारही भायोगाला आहे. महिलांना स्वातंत्र्य, समता व न्याय प्राप्त करून देण्याच्या दृष्टीने प्रयत्न करणे, महिलांचे शोषण थांबविणे आणि महिलांच्या सबलीकरणासाठी सकारात्मक उपाय योजुन राष्ट्रीय विकासात सकारात्मक योगदान देण्याचा आयोगाचा उद्देश आहे.

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वास्तविक स्थिती:

आपल्या देशामध्ये महिलांच्या स्थितीमध्ये प्राचीन काळापासून अनेक स्थित्यंतरे घडून आली आहेत. वैदिक काळात महिलांना पुरुषाच्या बरोबरीचे समान स्थान होते.शिक्षणामुळे महिलांच्या बाबतीत सन्मानाची भावना होती. यासंबंधीचा उल्लेख मनुस्मृतीमध्ये आढळतो. मध्यकाळात अनेक आक्रमणे झाली. ज्यामुळे समाजाची सुरक्षितता धोक्यात आली. त्याचा परिणाम शिक्षण व्यवस्थेवर झाला. शिक्षण आणि साहित्यापासून महिलांचा संपर्क नष्ट झाला. याच काळात महिला खऱ्या अर्थाने पडद्याच्या आत बंदी झाली. आधुनिक काळातील महिला जीवनाच्या प्रत्येक क्षेत्रामध्ये पुरुषांच्या बरोबरीने कार्य करीत आहे. असे असले तरी ती आधीपेक्षा अधिक असुरिक्षत झाली आहे.

आंतरराष्ट्रीय महिला वर्ष, महिला दशक, इंटरनॅशनल इयर ऑफ गर्ल चाइल्ड आणि महिला सबलीकरण वर्ष २००१ साजरे करण्यात आले. यावरून हेच सिद्ध होते की स्वातंत्र्यानंतर ७५ वर्षाचा काळ झाला असला तरी संविधानाने प्रदान केलेल्या मानव अधिकारापासून महिला वंचित राहिल्या आहेत. महिलांच्या मानव अधिकारासंबंधी संविधानिक तरतूद आणि अनेक कायदे असूनही महिलांचे शोषण आणि त्यांच्यावर होणाऱ्या अत्याचाराच्या घटना कमी न होता वाढतच चालल्या आहेत. महिलांवर होणाऱ्या अत्याचारांचे अनेक प्रकार आहेत. उदाहरणार्थ भृणहत्या, शिशु कन्या हत्या, कुटुंबामध्ये मुलींच्या शिक्षण व आरोग्याची होणारी उपेक्षा, हुंडाबळी, बलात्कार, कौटुंबिक हिंसा व लहान वयात होणारे विवाह इत्यादी. भारतीय समाजामध्ये लांचनास्पद असलेली गोष्ट म्हणजे मुलीला जन्माच्या आधीच मारून टाकण्याची प्रथा होय.अशी प्रथा प्राचीन काळापासून चालत आलेली आहे. त्यामुळे स्त्रीच्या जन्म घेण्याच्या निसर्गदत्त अधिकारावरच गदा आली आहे. युनिसेफच्या एका अहवालानुसार संपूर्ण जगामध्ये पुरुष महिला प्रमाण १००-१०५ आहे. जिथे भारतामध्ये हेच प्रमाण १००- ९३ असे खाली आले आहे. छ सन २००१ ची भारताची आकडेवारी पाहिल्यास असे लक्षात येते की भारतामध्ये १००० पुरुषांमागे महिलांची संख्या ९३३ इतकी आहे. शून्य ते सहा वर्ष वयोगटातील प्रति हजार पुरुष बालकाच्या तुलनेमध्ये स्त्री बालकाची संख्या सतत कमी होत चालली आहे. ही संख्या ९६२ वरून ९२७ पर्यंत खाली आली आहे. ज्या राज्यांमध्ये ही प्रवृत्ती अधिक पाहायला मिळते त्यामध्ये हिमाचल प्रदेश, पंजाब, हरियाणा, उत्तरांचल ,गुजरात ,महाराष्ट्र यांचा प्रामुख्याने समावेश होतो. भारतातील काही राज्यांमध्ये मुलींच्या हत्येची प्रथा अजूनही प्रचलित असल्याचे चित्र पहावयास मिळते. यामध्ये राजस्थानचा प्रामुख्याने उल्लेख करावा लागेल. राजस्थानमध्ये विशेषतः पश्चिम भागातील जिल्ह्यांमध्ये दहा हजार लोकसंख्येच्या गावांमध्ये युवक स्त्रींची संख्या केवळ पन्नास आहे. १९९८ मध्ये राज्यातील देवोरा गावामध्ये जेव्हा ११५ वर्षानंतर पहिल्यांदा एका मुलीचे लग्न झाले तेव्हा देओरा गाव आंतरराष्ट्रीय चर्चेचा विषय बनले होते. विकसित देशाच्या तुलनेत भारतामध्ये गर्भावस्थेमुळे होणाऱ्या महिलांच्या मृत्यूचे प्रमाण जास्त आहे.

ar: 2024 98V: 078-81-970389-0-7 कास अहवाल हे सांगतों की लिंग समानतेच्या क्रिकेट करें। अहवाल हे सांगतों की लिंग समानतेच्या क्रिकेट करें। असते. वा मानव विकास अहवाल हे सांगतो की लिंग समानतेच्या दृष्टीने भारताची स्थिती पाकिस्तान यंतरे घडून हो बहुर आहे. खरे पाहता अफगाणिस्तान सोडून यासंबंधी भारताचे स्थान दक्षिण आशियामध्ये शिक्षणामुळे अस्ति आहे. मातृत्व मृत्युदरही भारतात पाकिस्तान पेक्षा जास्त आहे. जिथे पाकिस्तान मध्ये आहळतो बाल जिवत मुलींपैकी ३२० बालकांचा मृत्यू होतो तिथे भारतामध्ये बालकांच्या मृत्यूचे प्रमाण वा परिणाम ५० आहे.

च काळात शिक्षणाच्या दृष्टीने विचार केल्यास अजूनही ग्रामीण भागामध्ये मुलींच्या शिक्षणाकडे या प्रत्येक असुरक्षित अस्य दुर्लक्ष केल्या जाते. मुलांच्या शिक्षणावर ज्याप्रकारे खर्च केला जातो तसा खर्च मुलींच्या बतीत केला जात नाही. त्यामुळे महिलांच्या शिक्षणासारख्या मूलभूत अधिकाराचे हनन मोठ्या माणात होते. शिक्षणामुळे महिलांमध्ये आत्मविश्वास आणि आपल्या अधिकाराच्या बाबतीत न्ड आणि नाती निर्माण होऊन अन्यायाविरुद्ध लढण्याची नैतिक शक्ती प्राप्त होते. ग्रामीण आणि शहरी गानंतर ७५ जांमध्ये महिला साक्षरतेचे प्रमाण विषम आहे.ग्रामीण साक्षरतेचे प्रमाण ५९% तर शहरी भागामध्ये ला वंचित च प्रमाण ८० टक्के आहे. महिलांवर होणाऱ्या अत्याचारासंबंधी सर्वात वाईट गोष्ट म्हणजे कौटुंबिक असूनही सेतून होणारे महिलांचे शोषण होय. एका अभ्यासानुसार ४०% पेक्षा अधिक भारतीय विवाहित हिला कौटुंबिक हिंसेपासून शोषित आहेत. अशाप्रकारचे शोषण सामाजिक, आर्थिक व राजकीय रीने सामर्थ्यशाली असलेल्या लोकांद्वारा केले जाते. महिलांना मारहाण करण्याच्या बाबतीत कारचा सर्वात वरचा क्रमांक लागतो. त्यानंतर आसाम, पश्चिम बंगाल, उत्तर प्रदेश आणि विष्ठनाडू यांचा क्रमांक लागतो.बिहारमध्ये यासंबंधीचे प्रमाण ५९% तर उपरोक्त राज्यांमध्ये हेच माण ४० ते ४६ टक्के आहे.क महिलांच्या अपहरण प्रकरणात पोलिसांचा दृष्टिकोन साधारणपणे कारात्मक स्वरूपाचा आढळतो. यासंबंधीचे एक तथ्य असे आहे की अपहरण करणाऱ्या यकीच्या दबावामुळे अपहरण झालेल्या महिला सभासदाच्या कुटुंबातील सभासद पोलिसांमध्ये पोर्ट करीत नाहीत. कुटुंबातील इतर सभासदांचे अपहरण किंवा अपहत महिला सभासदाला मारून कण्याची भीती रिपोर्ट न करण्यामागे असते.ीं हुंड्यासारख्या सामाजिक कुप्रथेमुळे अनेक महिलांचे विन उध्वस्त झाले आहे. याचा सर्वाधिक परिणाम नवविवाहित महिलांवर होतो. हुंड्याशी संबंधित किलांच्या शोषणाविरुद्ध इतर गुन्ह्यांच्या तुलनेत पोलिसांनी सक्रिय भूमिका पार पाडण्याची अपेक्षा असते. यासंबंधीच्या अभ्यासातील एक निष्कर्ष असा आहे की हुंड्याशी संबंधित गुन्ह्यांची नोंद किन त्यासंबंधी योग्यती तपासणी करीत असल्याचे म्हणणाऱ्या पोलिसांचे प्रमाण ९०% आहे. लात्कार, सामाजिक अन्याय आणि हुंड्यासारख्या कुप्रथेमुळे महिलांचे जीवन असुरक्षित झाले शहे. बलात्कार म्हणजे महिलांवर होणाऱ्या अत्याचाराचा राक्षसी प्रकार होय. यासंबंधीच्या रणास्पद घटनांमुळे संपूर्ण समाजाची मान खाली झुकल्याशिवाय राहत नाही .महत्त्वाची बाब म्हणजे वित्याना वाच म्हणज वित्यात्माना वाच म्हणज वित्यात्माना वाच महणज्ञात्माना असते. बराबरा टोनर

7 384 ले होते. त आहे.

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ISBN: 978-81-97030 यांनी अद फॅक्ट्स ऑफ रेपअ मध्ये लिहिले आहे की ज्या महिलांसोबत अत्यंत वाईट परिस्थितीत यांनी अद फॅक्ट्स आफ रपक निया रिला पोलिसांपुढे येतात. मानव संसाधन मंत्रालयाच्या महिला व बलात्कार झाला असल असाच गाएस बलात्कार झाला असल असाच गाएस बालविकास विभागाच्या अहवालानुसार भारतामध्ये प्रत्येक ५४ मिनिटाला एक महिला बलात्कार, बालविकास विभागाच्या अरुपारापुरार ५१ मिनिटाला छेडछाड, २६ मिनिटाला गैरवर्तणूक तर १०२ मिनिटाला हुंड्यासाठी हत्या केली जाते, सन २००७-२००८ च्या राष्ट्रीय महिला आयोगाच्या वार्षिक अहवालानुसार महिलांवर होणाऱ्या सन २००७-२००८ व्या राष्ट्री गाँउ । तर्वा अयोगाकडे आलेल्या तक्रारींची एकूण संख्या १५८५४ इतकी होती. यामध्ये सर्वात जास्त तक्रारी म्हणजे ८२०० उत्तरप्रदेश मधून आल्या होत्या.

टाइम्स ऑफ इंडिया प्रकाशनाच्या महिला समस्यांवर आधारित मासिकाच्या अंकामध्ये । संपादकीय लेखात महिलांच्या शोषणासंबंधी असे लिहिले होते-लगता था आजादी के बाद महिलाओं की स्थिती भी बेहत्तर होगी नई आधुनिकता समाज में जागृती लायेगी और महिलाए पुरुषो की तरह समाज मे समान अवसर पाकर एक नये समाज की संरचना में हात बटायेगी, लेकिन दुर्भाय से वैसा हुआ नही है। महिलाये आगे जरूर आई है और आज लगभग हर क्षेत्र में वह पहिले की तुलनामें जादा दिखाई दे रही है पर महिला उत्पीडण की घटनाये कम नहीं हुई है। यह भी एक सच्चाई है की उत्पीडन के तोर तरीको मे भलेही फर्क हो, पर शहरी और ग्रामीण स्त्रिया समान रूप से अवहेलना, उपेक्षा और दमन की शिकार हो रही है।

निष्कर्ष व उपाय:

- १) महिलांच्या मानव अधिकाराच्या संरक्षणासाठी करण्यात आलेल्या काही महत्त्वपूर्ण कायद्यामध्ये असलेली अस्पष्टता दूर करून यासंबंधीच्या कायद्यामध्ये एकरूपता आणली पाहिजे. जसे हिंदू विवाह अधिनियम १९५५, हिंदू अल्पसंख्यांक अधिनियम १९५६ आणि बालविवाह अधिनियम २००६ .
- २) बालविवाहाच्या कुप्रथेमुळे स्त्रियांच्या मानव अधिकाराचे होणारे हनन रोखण्यासाठी यासंबंधीच्या कायद्यात कठोर तरतूद केली पाहिजे. यासंबंधीचे एक अनुमान असे आहे की अध्यपिक्षा जास्त विवाह कायद्याद्वारा निर्धारित केलेल्या वयाच्या आधीच केले जातात. यासंबंधीच्या कायद्यामध्ये विवाह साठी मुलाचे आणि मुलीचे वय अनुक्रमे २१ व १८ निर्धारित केले आहे. यामध्ये बदल करून मुलीचे वय २१ आणि मुलाचे वय २४ वर्ष केले पाहिजे. पाँडिचेरीमध्ये मुलीसाठी २० तर मुलांसाठी २६.४ वर्षे वयाची अट निर्धारित केलेली आहे.
 - ३) महिलांवर होणाऱ्या विविध अत्याचारांच्या बाबतीत पोलिसांनी सकारात्मक दृष्टिकोनातून आपली भूमिका प्रभावीपणे पार पाडली पाहिजे. विशेषतः रात्रीच्या वेळी काम करणाऱ्या महिलांसारी प्रभावीपणे केली महिलांसाठी प्रवासामध्ये संरक्षण पुरविले पाहिजे. विशेषतः रात्रीच्या वळा पान केली पाहिजे. यामंनंधी कि के के केली पाहिजे. यामंनंधी कि के के केली पाहिजे. यामंनंधी कि के के केली सर्वयू पाहिजे .यासंबंधी दिल्ली पोलिसांनी केलेली व्यवस्था उत्तम म्हणावी लागेल. त्याची व्यामी सर्वरू

होणे गरजेचे आहे.

भी भ्रूणहत्येमुळे स्त्री -पुरुष प्रमाणामध्ये निर्माण झालेले अंतर कमी करण्यासाठी राज्यस्तरावर काही प्रोत्साहन पर योजना राबविली पाहिजे. यासंबंधी हरियाणातील फतेहबाद जिल्ह्यातील दुलात गावाचा आदर्श सर्वांनी घेण्यासारखा आहे. या गावाने जानेवारी ते डिसेंबर २०१० या काळात पुरुष- स्त्री प्रमाण १४- ३४ असे साध्य केले. त्यासाठी हरियाणा सरकारने या गावाचा पाच लक्ष रुपये पुरस्कार देऊन गौरव केला होता.

- () महिलांनी आपल्या अधिकारासंबंधी जागृत होऊन आपले शोषण थांबविण्यासाठी स्वतः लढले पाहिजे. त्यासाठी महिलांच्या सबलीकरणाची गरज आहे. शासनाच्या सर्वच खात्यांनी आपल्या खर्चाच्या ३०-४०% खर्च हा महिला सबलीकरणासाठी केला पाहिजे. यासंबंधीची शिफारस स्वतः राष्ट्रीय महिला आयोगाने शासनाला केली आहे.
- 🖟 ६) महिलांच्या मानव अधिकाराच्या संवर्धन आणि संरक्षणाच्या दृष्टीने गैरसरकारी संघटनेची भूमिका महत्त्वाची ठरते. अशा संघटनांना आपली भूमिका पार पाडताना अनेक अडचणींचा सामना करावा लागतो. अशास्थितीत गैरसरकारी संघटनांना आवश्यक स्वरूपाची मदत किंवा सहाय्य प्रविले पाहिजे. यासंबंधी स्टॉप या गैरसरकारी संघटनेचे उदाहरण बोलक्या स्वरूपाचे आहे. स्टॉप ही संघटना मानव व्यापाराच्या विरुद्ध असलेले एक अभियान आहे.
- ७) महिलांच्या मानव अधिकाराचे संरक्षण करण्यासंबंधी असलेल्या कायद्याच्या बाबतीत आणि राष्ट्रीय महिला आयोगासंबंधी सामान्य जनतेमध्ये विशेषतः ग्रामीण भागामध्ये जनजागृती केली पाहिजे. त्यासाठी शासन, राष्ट्रीय मानव अधिकार आयोग, राष्ट्रीय महिला आयोग, स्वयंसेवी संघटना अशा सर्व स्तरातून सकारात्मक प्रयत्नाची गरज आहे.

संदर्भ:

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- १) सिंह, राजबाला, मानवाधिकार और महिलाए, पृष्ठ १२०.
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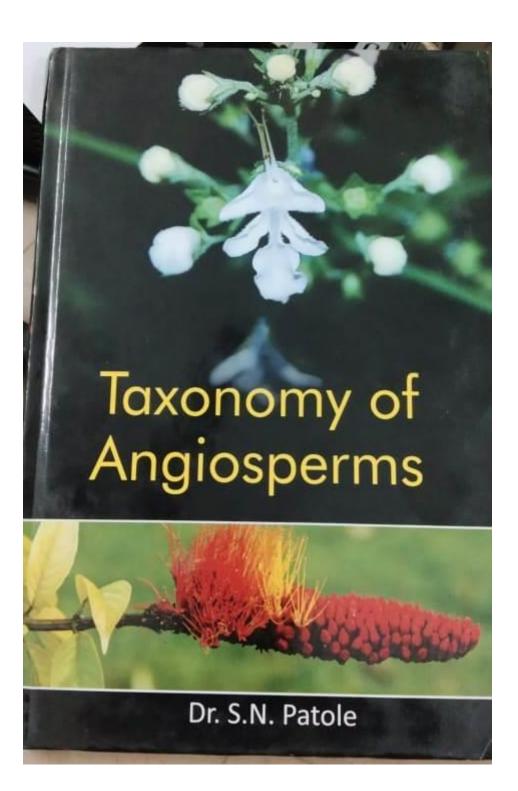
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Contents: Introduction to Angiosperm Taxonomy • History of Taxonomy • Types of Taxonomy, Identification, Nomenclature and Classification • Herbarium • Botanical Nomenclature • Plant Structure • Systems of Classification • Magnoliid Families • Monocotyledons Families



Dr. S.N. Patole obtained his M.Sc. Botany degree with specialization in Angiosperms Taxonomy in first division from Sant Gadge Baba Amravati University, Amravati. He was awarded Ph. D. Degree in Botany by Jiwaji University, Gwalior, Madhya Pradesh. He has published about 25 research papers in peer reviewed Journals of National and International repute. He has completed Minor Research Project funded by UGC, WRO, Pune. He has attended several national and international

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The Oxidative Cyclisation Of 2'-Hydroxychalcones To Aurones : A Review Article

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Abstract: Aurones constitute a subclass of naturally occurring compounds which are structurally isomeric to flavones, biogenetically related to chalcones, and are responsible for imparting beautiful yellow colors to some of the flower petals [1-4]. Recent investigations have shown that these compounds have potent and promising biological activities, in some cases even more potent than chalcones and flavones [5-7].

In this review, we report the recent advances made on the synthetic routes towards aurones. We also highlight characterization and physical properties with experimental data finally, some aspects regarding the possible development of aurones will be discussed briefly.

Keywords: Aurone, Density, Viscosity, Conductance, Physico-chemical etc.

INTRODUCTION:

The first examples of aurones were characterized in 1940 in Asteraceae [8], the family of sunflowers, which synthesize the most common 4-deoxyderivatives of the family including sulfuretin, maritimetin, leptosidin and their corresponding glycosides. The species variabilis and sulphureus mainly express sulfuretin and its glycosylated counterparts in leaves and petals. In the bidens species, maritimetin has been isolated while, in the genus Coreopsis, compounds such as sulfuretin, maritimetin, but also leptosidin may be found.

In the early twentieth century, Gustav Klein coined the term anthochlor (anthos = flower,chl or ós = yellowish) to define a class of water-soluble pigments conferring color to plants able to synthesize them as secondary metabolites [9]. It included a restricted group of derivatives known as aurones (aurum = gold), due to the bright yellow/gold color that these compounds give to plants in which they are located. Aurone provides intense yellow pigmentation to some fruits and flowers [10]. However, they are also found in leaves, barks, seeds and woods of various plants. Aurone derivatives also shows various range of pharmacological activities such as antiviral, antifungal, antioxidant, anticarcinogen, antidiabetes [11,12]. Actually, to date, the chemical structures of more than 100 different aurones have been identified, characterized by distinctive hydroxylated, methoxylated, and glycosylated substitution patterns. Moreover, their effective potential to predict viable therapeutic uses has begun to be unveiled [13-16]. Therefore, they represent a worth deepening class of natural compounds intended to provide bioactive compounds in the near future. The oxidative cyclisation reactions of chalcones to corresponding aurones and flavones are discussed. While Hg2+ mediated oxidative cyclisation of chalcones selectively give aurones, the general mechanisms of these oxidative cyclisation reactions are proposed [17].

Aurones have been reported to possess insect antifeedant activity, [18] anticancer,[19,20] antileishmanial [18,20] and antibacterial properties,[21] inhibitory activity against a variety of enzymes and proteins [22–28] and have been developed as potential amyloid imaging agents.[29]. Surprisingly, only few studies on the antioxidant activity of aurones exist, however these prove their potential as antioxidant agents [30].

2. EXPERIMENTAL STUDIES:

2.1 SYNTHESIS: Substituted Aurone have been synthesized by cyclization of substituted chalcone in presence of cyclizing agent Mercury Acetate and DMF solvent. Their general structures were confirmed by IR, 111 NMR and mass spectral data. Table 1, Table 2, and Table 3 shows the various physical parameters of new synthesized Aurone.

2.2 PHYSICOCHEMICAL STUDIES: (DENSITY, VISCOSITY, CONDUCTANCE ETC.)

from DMF and DMSO. The solvent A i.e. DMF and B. i.e. DMSO were used for the physicochemical studies. Solutions of different concentrations were made in solvent A and solvent B of the synthesized compounds. The conductance of solutions was measured using conductivity meter at various temperatures. Vis spectrophotometer was used to determine the absorbance of all the solutions. Table 1 shows the absorbance of synthesized Aurone at various temperatures and various concentrations.

3. RESULTS AND DISCUSSIONS:

3.1 SPECTRAL DATA:

IR(KBr cm⁻¹⁾ 1700.03 (C=O cyclic), 1641.06 (C=C Unsaturated with ketone), 1466.11 (C=C aromatic),1199.42 (C-O furane), 621.65 (C-C1 aromatic).

ES-MS [M+S] + Calculated for C15H9ClO2: m/z was found 258.05, 261.06.

₁H-NMR(500 MHz,DMSO) 1H NMR: δ 7.15 (1H, ddd, J=8.1,1.2,0.5 Hz) 7.28-7.51 (2H,7.35 (ddd, J=8.2,7.8,1.3Hz) 7.35(s)), 4.49-7.82 (6H,7.59 (ddd, J=8.4,1.4,0.5 Hz), 7.58(ddd, J=8.2,1.5,0.5Hz, 7.69 (ddd, J=8.5,1.7,0.5 Hz), 7.74(ddd, J=8.6, 7.9, 1.5 Hz)).

3.2 DENSITY AND VISCOSITY OF SYNTHESIZED AURONE:

Table 1: The table below shows density (ρ) , and viscosity (η) , at different concentrations and at 308.15K.

Conc.	Solvent A Density(p) (g.cm ⁻³)	Sofvent A Viscosity (n.197) poise	Solvent B Density(p) (g.cm ⁻³)	Solvent B Viscosity (n.18-7) poiss
0.05	0.957	6.9751	1.023	11.245
0.04	0.965	6.7685	1.011	11.210
0.03	0.964	6.6787	1.002	11.113
0.02	0.963	6.5939	0.997	11.047
0.01	0.962	6.5756	0.991	10.958

3.3 CONDUCTANCE: The table below shows values of conductance of various concentrations of solution at 308.15 K.

Concentrations	Conductance	Conductance
	(S/cm ⁻³)	(S/cm ⁻³)
	Solvent A	Solvent B
0.005	0.073	0.175
0.004	0.064	0.149
0.003	0.051	0.134
0.002	0.042	0.121
0.001	0.031	0.112

The above data clears the variation of conductance with concentration for both the solvents. It is observed that conductance increases with concentration and values are less in Solvent A than that in Solvent B i.e. there is linear increase in conductance with concentration

4. CONCLUSIONS:

From above experimental values it is concluded that densities, viscosities and conductance and absorbance of solution are changes by changing temperatures and by changing the solvent due to solute-solvent interaction.

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Design Of An Atom Efficient Aurone Derivative And Evaluated Physico - Chemical Parameters

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ABSTRACT

In this study, we have synthesized aurones derivatives by cyclizing of chalcone in presence of mercuric acetate and DMF as a solvent. Its physico-chemical parameters like viscosity, density refractive index, and ultrasonic velocity are evaluated. To check the purity of resultant aurones by TLC and Characterization by using IR, H-NMR and mass Spectrometer.

Key word: Aurons, viscosity, density, ultrasonic velocity etc.

1. INTRODUCTION

Aurones, are a subclass of naturally occurring compounds which are structurally isomeric to flavones, biogenetically related to chalcones, and are responsible for imparting beautiful colors to some of the flower petals [1-4]. Recent investigations have shown that these compounds have promising biological activities, in some cases even more potent than chalcones and flavones [5-7].

Aurones are mainly synthesized from chalcones in plants by oxidation, cyclization and rearrangement with the help of an enzyme aureusidin synthase [8-10]. The aurones shows most of the biological activity like anticancer [11-13] antimicrobial, [14] and antioxidant [15] properties whereas they possess enzyme inhibitory [16, 17], or enzyme-inducing activity [18]. insect antifeedant[19],herbicidal[20], anti-HIV[21,22], anti-HCV (hepatis C virus)[23,24], anti-malarial[25,26], ChE inhibitory[27,28], MAO inhibitory[29] activities in the specified studies. The antileishmanial activity of a series of aurones was first reported by Kayser and Kiderlen in 1999 [30].

Physico-chemical properties are useful to design of new pesticides and drugs. Hence in present work synthesized aurones and derive its physico-chemical properties.

2. EXPERIMENTAL:

The auron derivative mainly prepared from chalcones, and the pre material to prepared chalcone is aromatic benzaldehyde and 2-hydroxy acetophenone. The aurones prepared by cyclization of chalcones in

presence of best cyclizing agent mercury acetate with solvent DMF. The resultant aurone crystallized by using alcohol and purity check by TLC. The characterization done by using spectroscopic technique like IR spectra were recorded in KBr by using FT-IR(IR Perkin Elmer - Spectrum RX-IFTIR). Mass spectra were recorded on mass spectrometer while HNMR were recorded on FT NMR Spectrometer (Bruker Avance Neo 500 MHz).

Table: 1

Compound	R _i	R,	Molecular formula	Molecular weight	Yield
Aurones	ОН	Cl	C ₁₅ H ₉ ClO ₂	256.5	82%

SPECTRAL DATA:

IR (KBr cm-1) 1710 (C=O cyclic), 1616.64(C=C Unsaturated with kotone), 1459 (C=C aromatic), 1210(C-O furane), 621.60 (C-Cl aromatic), 1H-NMR (500 MHz, DMSO) ¹H NMR: δ 7.12 (1H, ddd, J = 8.1, 1.2, 0.5 Hz), 7.27-7.41 (2H, 7.34 (ddd, J = 8.0, 7.6, 1.2 Hz), 7.33 (s)), 7.46-7.77 (6H, 7.52 (ddd, J = 8.2, 1.3, 0.5 Hz), 7.54 (ddd, J = 8.0, 1.4, 0.5 Hz), 7.64 (ddd, J = 8.2, 1.5, 0.5 Hz), 7.70 (ddd, J = 8.1, 7.6, 1.4 Hz)). ES-MS [M+H]+

Calculated for C15H9ClO2: m/z was found 257.03, 259.03, 260.04

3. PHYSICO-CHEMICAL PROPERTIES

Physicochemical properties play an important role in modifying the biological activities of many compounds. Thus, pharmacological or therapeutic effects of a drug also relate to its bio distributions or physicochemical parameters. The physicochemical properties of interest to chemical alternatives assessment can be used to identify physical hazards and to understand or predict a chemical's environmental fate, human toxicity.

3.1 Density and Viscosity

Density is a measurement of how much space or volume is packed in an object or substance. So, how does density impact every aspect of our lives? Viscosity directly impact on flow of liquid. The density measured by using pycnometer while viscosity by using Ostwald viscometer by fallowing formula

$$\eta_{y} = \eta_{w} \, \frac{d_{y} \times d_{y}}{d_{w} \times d_{w}}$$

3.2 Ultrasonic velocity:

The ultrasonic velocity is calculated as the frequency of the ultrasonic waves and measured wavelength value of ultrasonic waves in a given solution. The viscosity of the solution is calculated using density and time flow of liquid. Ultrasonic studies provide a wealth of information in understanding the molecular behavior and intermolecular interaction. The ultrasonic velocity is calculated as

$$V = f \Lambda$$

where "f" is the frequency of the ultrasonic waves and " Λ " is the measured wavelength value of ultrasonic waves in a given solution..

3.3 Refractive index:

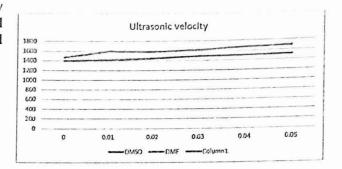
Refractive index is a fundamental constant that describes the interaction between light and material. Abbe refractometer is useful to determine refractive index of aurone in different solvent. The uncertainty of temperature was \pm 0.10C and that of refractive index was 0.0005 respectively.

4. RESULTS AND DISCUSSION:

Density, Viscosity and ultrasonic velocity of aurones *derivative* at 25° C. in different solvent and at different concentration.

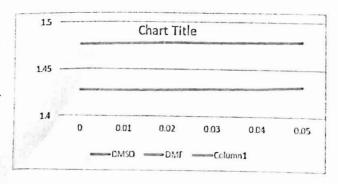
Table: 2

200	D	MSO Solv	ent	DMF Solvent		
Conc. (M).	Density (ρ)(kg/m²)		Viscosity m/s	Density (p)(kg/m²)	Viscosity (ŋ)×10' NSM'	Velocity m/s
0.00	1112,46	1 45428	1466.74	957.628	0.70773	1402.71
0.01	1115,52	1.52140	1593.78	962.852	0.78865	1418 64
0.02	1116.62	1.63562	1588.24	964.507	0.79076	1446 52
0.03	1117.02	1.6925	1620.72	965 574	0.80142	1486.73
0.01	1119.64	1.7271	1672.46	967.042	0.82874	1497.68
0.05	1120.31	1.8074	1690.76	967.945	0.85823	1508 41



Ultrasonic velocity increases by increasing concentration which indicate the solute solvent interaction. It shows that the density, viscosity, and ultrasonic velocity of the solution increase with increase in concentration. This linear increase of ρ , η , and υ , with concentration confirms an increase of cohesive forces because of strong molecular interactions. Ultrasonic waves are present in the solution, the molecules get perturbed. Due to some elasticity of the medium, perturbed molecules regain their equilibrium positions.

Refractive index also depends on concentration. If concentration increases which slightly increase the refractive index.it shows the great interaction between solute and solvents molecules.



Conc.	DMSO	DMF
(M)	R.I.	R.I.
0.00	1.4768	1.4274
0.01	1.4772	1.4276
0.02	1.4781	1.4282
0.03	1.4784	1.4290
0.04	1.4789	1.4295
0.05	1.4792	1.4320

5. CONCLUSION:

In this work, the synthesis of aurone derivative and check the physico-chemical properties. It is concluded that, physicochemical properties of a compound depends on nature of solvent and concentration. Acoustic parameter was determine interaction between solute and solvent molecules in various concentrations.

ACKNOWLEDGMENTS

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Report

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इतिहासाचार्य वि. का. राजवाडे मंडळ, धुळे या संस्थेचे त्रैमासिक

।। संशोधक।।

पुरवणी अंक २ – सप्टेंबर २०२३ (त्रैमासिक)

- शके १९४५
- वर्ष: ९१
- पुरवणी अंक : २

संपादक मंडळ

प्राचार्य डॉ. सर्जेराव भामरे
 प्रा. डॉ. मृदुला वर्मा
 प्रा. श्रीपाद नांदेडकर

* प्रकाशक *

श्री. संजय मुंदडा

कार्याध्यक्ष, इ. वि. का. राजवाडे संशोधन मंडळ, धुळे ४२४००१ दूरध्वनी (०२५६२) २३३८४८, ९४०४५७७०२०

कार्यालयीन वेळ

सकाळी ९.३० ते १.००, सायंकाळी ४.३० ते ८.०० (रविवारी सुट्टी)

मूल्य रु. १००/-वार्षिक वर्गणी रु. ५००/-, आजीव वर्गणी रु. ५०००/- (१४ वर्षे)

विशेष सूचना: संशोधक त्रैमासिकाची वर्गणी चेक/ड्राफ्टने 'संशोधक त्रैमासिक राजवाडे मंडळ, धुळे' या नावाने पाठवावी.

अक्षरजुळणी : सौ. सीमा शिंत्रे, वारजे-माळवाडी, पुणे ५८.

महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळाने या नियतकालिकेच्या प्रकाशनार्थ अनुदान दिले आहे. या नियतकालिकेतील लेखकांच्या विचारांशी मंडळ व शासन सहमत असेलच असे नाही.



भारतातील महिला सक्षमीकरणात सामाजिक व आर्थिक स्थितीचे योगदान

डॉ. एम. के. नन्नावरे

सहयोगी प्राध्यापक व अर्थशास्त्र विभाग प्रमुख, श्री शिवाजी कला, वाणिज्य व विज्ञान महाविद्यालय, आकोट जि. अकोला (महाराष्ट्र)

सारांश :

महिला सक्षमीकरण ही एक क्रमिक प्रक्रिया आहे. महिलांच्या सामाजिक आणि आर्थिक सक्षमीकरणाचा संबंध बहुतेक वेळा श्रमशक्ती आणि उत्पन्नाशी संबंधित असतो. तथापि, रोजगार आणि उत्पन्नाच्या वाढीवतेमुळे महिलांची सामाजिक, आर्थिक स्थिति आणि निर्णय घेण्याच्या सामर्थ्यात सुधारणा होत नाही. सामाजिक, सांस्कृतिक, शैक्षणिक, आर्थिक आणि राजकीय अशा विविध घटकांना काही G-20 देशांमध्ये सतत लिंग तफावतीसाठी जबाबदार असल्याचे म्हटले जाते. भारतातील महिलांची स्थिती आजही शिक्षण, आरोग्य, रोजगार, निर्णय क्षमतेतील प्रमाण आणि वित्तीय साक्षरता पुरुषांच्या तुलनेत कमी दिसून येते.

बीजशब्द : महिलांची स्थिती, शिक्षण, आरोग्य, रोजगार, निर्णय क्षमतेतील प्रमाण

प्रस्तावना :

सक्षमीकरण ही एक बहुआयामी संकल्पना असून ती लोकांचा सामाजिक विकास तसेच आर्थिक व राजकीय क्षेत्रातील सहभागाशी निगडीत आहे. आर्थिक अभिवृद्धी आणि विकास यांना गती देण्यासाठी महिला सक्षमीकरणाच्या प्रकियेला १९७५ मध्ये चालना मिळाली. सबलीकरण म्हणजे स्नियांचे पोषण करणे, त्यांना स्वातंत्र्य देणे आणी त्यांचे दारिद्र्य दूर करणे होय. स्त्री सक्षमीकरणाचा शब्दशः अर्थ स्त्रीयांना पुरूषांच्या बरोबरीने समान विकासाची संधी देणे होय. सक्षमीकरण म्हणजेच दुर्बलता नष्ट करणारी संकल्पना. महिला सक्षमीकरणाचे मोजमाप करण्यासाठी व्यापक स्तरावर अवलंबीलेल्या संकल्पनात्मक-लिंग-निगडीत विकास निर्देशांक, लिंग-आधारीत मानव विकास निर्देशांक आणि लिंग-आधारीत सक्षमीकरण मोजमाप असे काही घटक संयुक्त राष्ट्र विकास कार्यक्रमाने (१९९५) निश्चित केले आहेत आणि सर्वसामान्यपणे याच घटकांचा परिमाण म्हणून वापर केला जात आहे.

जागतिक व भारतूसंशोधन साहित्याचा आढावा :

संयुक्त राष्ट्र संघटनेने १९७५ हे वर्ष आंतरराष्ट्रीय महिला वर्ष म्हणून घोषित केले. त्यानंतर बीजिंग येथील चौथ्या (१९९५) जागतिक महिला परिषदेत जगभरातील महिला सक्षमीकरणासाठी नवीन दृष्टी देणाऱ्या एका नव्या पर्वाची सुरुवात झाली. महिला सबलीकरणासाठी १९७५ ते १९८५ पर्यंत महिला विकासाचे दशक म्हणून युनोने जाहीर केले. २०१५ मध्ये तुर्की अध्यक्षपदाच्या काळात महिला आर्थिक सक्षमीकरणाला अधिक चालना देण्याच्या उद्देशाने महिला २० (W20) हा एक महत्त्वाचा गट स्थापन करण्यात आला. W20 आणि We-Fi(Women Entrepreneur-Finance Initiative महिला उद्योजक-वित्तीय पुढाकार) हे सर्वात महत्त्वाचे उपक्रम आहेत. ज्याने महिला सक्षमीकरणासाठी सक्षम वातावरण प्रदान केले आहे. W20 ही महिला–पुरुष समानतेवर समन्वय साधण्यासाठी एक महत्त्वाची यंत्रणा आहे. भारतात राष्ट्रीय महिला आयोग कायद्यान्वये (१९९०) महिलांचे हितसंरक्षण करण्याच्या हेतूने ३१ जानेवारी, १९९२ रोजी राष्ट्रीय महिला आयोगाची स्थापना करण्यात आली. भारताने १२ डिसेंबर, २०२२ रोजी थ२० अध्यक्षपदाची सूत्रे स्वीकारल्यानंतर, 'महिला-नेतृत्व व विकास' या माध्यमातून समन्याय (Equity) आणि समानतेचे (Equality) जग निर्माण करण्याचा दृष्टिकोण प्रत्यक्षात आणण्यावर लक्ष केंद्रीत केले आहे. भारताच्या अध्यक्षतेखाली W20 ची पाच प्राधान्य क्षेत्रे-उद्योजकतेतील महिला, तळागाळातील महिला नेतृत्व, लिंग डिजिटल विभाजन, शिक्षण आणि कौशल्य विकास आणि हवामान बदल, कृतीतील सहभाग यांचा समावेश आहे.

संशोधन पद्धती :

शोधनिबंध हा गुणात्मक, संख्यात्मक पद्धती व दुय्यम आधारसामग्रीवर आधारित आहे. भारतातील पुरुष आणि महिलांबरील अहवाल आणि mospi या संकेतस्थळावरील

संशोधक

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देऊन ङ्गरोजगाराभिमुखफ बनविण्यासाठी स्त्री शिक्षण हा महिला सबलीकरणाचा प्रभावी उपाय ठरेल.

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पुरवणी अंक २ – सप्टेंबर २०२३

(१३५)

Research Paper



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On

WOMEN EMPOWERMENT : ROLE OF LAWS, SOCIETY, CULTURE, POLITICS, LITERATURE AND MEDIA
Organized by

IQAC, Dr. Babasaheb Ambedkar College of Arts, Commerce and Science, Bramhapuri, Dist. Chandrapur, Maharashtra, India - 441206

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Dr. C. M. Patel

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Dept. of Media Studies – Jain (Deemed-to-be- University)
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Research Paper / Article / Review

Layers of Discord: A Marxist Analysis of Class and Ideology in Mahasweta Devi's Mother of 1084, from Domestic to Societal Arenas

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Abstract: The novel "Mother of 1084," originally titled "Hajar Chaurasi ki Ma" in Bengali holds a mirror to the class struggle prevailing between the bourgeois and the proletariat. Translated into English by Samik Bandyopadhyay, this dramatic work takes root against the backdrop of the Naxalite Movement in the 1970s. Central to the narrative is the expansion of the peasant revolution into a widespread mass uprising against the Neo-colonial bourgeois capitalist government, a spark ignited in Naxalbari, Darjeeling District of West Bengal in March 1967.

This research paper delves into the intricate layers of this pervasive class struggle, which reverberated as a mass revolution during that era, transcending boundaries from the intimate familial sphere to the broader social spectrum. Beyond the portrayal of class struggle and the clash of ideas, the paper unveils Mahasweta Devi's compassionate stance towards the Naxalites, whom she earnestly endeavoured to understand and embrace. From both social and political standpoints, Devi's humane perspective is scrutinized, intertwining literature and history to infuse realism into the tumultuous mass revolution of the 1970s. Through this blend, the paper seeks to shed light on the Naxalites, often deemed social adversaries, and present a plea for empathy and comprehension, intertwining the literary realm with the historical turbulence of the time.

Keywords: Class struggle, Bourgeois, Proletariat, Naxalite Movement, capitalist government.

The opening line of the renowned work "The Communist Manifesto," co-penned by Karl Marx and Frederick Engels, reverberates with an enduring truth: "The history of all societies that have existed up to the present is the history of class struggles" (Marx & Engels 473). This unchanging reality resides at the core of both current and bygone human societies. Despite the authors having passed away a century ago, their legacy persists, an everlasting continuum. The unending rhythm of this struggle has endured since the very inception of our civilization. Without fail, one segment of society finds itself preyed upon by an oppressive bourgeois faction, a cycle that culminates in the subjugation of one class into the state of the proletariat.

Oppressor and oppressed remained in perpetual antagonism, locked in an uninterrupted, sometimes concealed, sometimes overt clash – a clash that concluded either in the revolutionary reconstruction of the entire societal

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framework or in the mutual downfall of the conflicting classes (Marx & Engels 474).

According to Marxism, human society consists of two distinct classes: the 'base' and the According to Marxism, numan society and the bourgeoisie, wields dominion over the superstructure. The superstructure a class integral to all human production yet down 'superstructure'. The superstructure, a class integral to all human production yet devoid of the base', symbolized by the proletariat – a class integral to all human production yet devoid of the

autonomy to lead a self-directed life.

Translated into English by Samik Bandyopadhyay from its original Bengali version Translated into English by Salah "Mother of 1084" endeavours to depict the class titled "Hajar Chaurasir Ma," the novel "Mother of 1084" endeavours to depict the class struggle between the bourgeoisie and the proletariat on the theatrical canvas, set against the backdrop of the 1970s Naxalite Movement. The expansion of the peasant revolution into a mass uprising against the Neo-colonial bourgeois capitalist government in Naxalbari of Darjeeling District, West Bengal, in March 1967 serves as the gripping backdrop for all the unfolding drama in the novel. In accordance with the principles of Marxist class struggle, the rebels sought to materialize their movement by establishing a new party, the CPI (ML), emerging from the CPI (M), and tracing the path laid down by Marxist leaders to supplant capitalism with socialism. This era marked a crisis when the middle class was rapidly losing equilibrium and shifting allegiances to the other class, while an arrogantly complacent and unenlightened affluent class was coming into existence (Bandyopadhyay viii-ix). This gave rise to two conflicting classes, entangled in a struggle.

As a conscientious writer attuned to society's pulse, Mahasweta Devi couldn't ignore the prevailing spirit of the time. She wielded her pen to respond to the era's demands, yielding the fruit that is "Mother of 1084." "After thirty-one years of independence, I find my people still groaning under hunger, landlessness, indebtedness, and bonded labour. An anger, luminous, burning, and passionate, directed against a system that has failed to liberate my people from these horrible constraints, is the only source of inspiration for all my writing" (Bandyopadhyay viii-ix). The triumph of this acclaimed novel doesn't merely stem from offering fragmentary insights into the revolution, but from unearthing the stark realities endured by the revolutionaries who faced inhumane torments at the hands of the law and the

state machinery.

The essence of class struggle pervades the novel "Mother of 1084" from its very inception, persisting until its conclusion. A voice echoing the date "Seventeen January Nineteen Seventy" three times in opening part and the haunting sight of the police morgue strewn with the lifeless bodies of Brati and his comrades in the next part intricately tie the narrative to the Naxalite Movement of the 1970s. This movement saw numerous young lives lost in their endeavour to usher in societal transformation driven by the Marxian vision of a classless society. References to events such as the Barasat killing in November 1970 - where the bodies of eleven young men were discovered, hands bound, strewn on the road - and the Baranagar killing on 12 August 1971 - when over a hundred Naxalites were hunted down, beheaded, and publicly killed – establish a connection between the fate of Brati and his group and the systematic massacre of Naxalites during 1970-71. These heinous acts were perpetrated by the police, the ruling party, hired assassins, and even factions of the Left Establishment, acting in an unholy alliance (Bandyopadhyay xi).

The 1970s bore witness to inhumane and ruthless torture inflicted upon the revolutionaries by repressive forces. It marked a period when the tide of revolution, originating in North Bengal and spreading southwards, engulfed the entire region. The revolution that ignited in the north surged like a wildfire, reaching every corner. Instances of gunfire, massacres, and death became tragically commonplace. Crossing from one locality to another became perilous for the youth. The day Brati visits Somu's home just before the night that seals his fate hints at the precariousness of moving freely during those tumultuous times. When Brati

seeks permission to depart from Somu's home, Somu issues a stark warning:

Why? Are you dying to get killed? Stay here. I too joined in. Don't go, dear, stay here for the night. They were killing the young men of the locality itself; a stranger would be a surer target (Devi 10).

Ironically, Somu's caution and denial of Brati's departure set the stage for an unforeseen turn of events, resulting in Brati's untimely demise that very night, a grim twist of fate. This chilling and jarring realization finds poignant expression in the words of Somu's mother to Sujata, "Who knows, sister? If we had let him go that night, he might have escaped death" (10).

"Mother of 1084" captures the era of the 1970s, chronicling the ascension and downfall of the Naxalites. This movement was instigated by the profound idealism of Marx, asserting that the transformation of society could only materialize through the active engagement of the majority against the minority:

All previous historical movements were movements of minorities or in the interests of minorities. The proletarian movement is the self-conscious, independent movement of the immense majority, in the interests of the immense majority. The proletariat, the lowest stratum of our present society, cannot stir, cannot raise itself up, without the whole super incumbent strata of official society being sprung into the air (Marx & Engels 482).

The revolutionary ardour among the activists was so fervent that they fearlessly confronted police gunfire and assaults by hooligans. Numerous instances of open challenges and confrontations are documented in the novel. Somu, Bijit, and Brati make the ultimate sacrifice for the greater social cause. They meet death with a resolve akin to entering matrimony, clasping each other's hands and rallying with spirited slogans of "Long live...! Long live...!" (Devi 16).

However, Nandini's sacrifice surpasses even that of Brati and his group. She becomes a victim of inhuman police brutality while imprisoned. Her words convey the extent of her torment: "The prison. The solitary cell. The worst torture...Yes, the worst kind" (Devi 22). The blazing beams of thousand-watt lamps blind her, followed by the most atrocious form of torture: Saroj Pal's physical violation of her. Nandini hints at the ordeal to Sujata, "I won't be able to tell you all that happened after, (Pause). The sores on skin have healed but I'll never be normal again" (Devi 25). Sujata, too, recognizes the unbearable reality, asserting that "It's more tragic for a living Nandini than for a dead Brati" (Devi 25). Astonishingly, despite the nightmarish sequences, Nandini stands resilient. Glimmers of hope still reside within her. She articulates this resolve when Sujata seeks permission to return to Nandini's home upon her departure: ". No. What do you gain out of coming to me? You live with your past. I have to harness my present, and think of the future" (Devi 26). Nandini emerges as a true adherent of Marxian ideology, embodying the steadfast belief that society will one day transition from division to unity, from class-based to classless.

The novel "Mother of 1084" offers a glimpse into the prevalent illusion shrouding the lives of many within humanity. A significant portion of the contemporary society believes that the government-enforced laws and regulations primarily serve the welfare of the majority. However, the true reality presents a stark contrast. These regulations are often crafted by a select group of bourgeoisie to cater to their own class's interests. "The executive of the modern State is but a committee for managing the common affairs of the whole bourgeoisie" (Marx & Engels 475). Nandini's speech unveils how people languish under the cloak of illusion and betrayal:

Betrayal. The prison walls rise higher, new watchtowers shoot up, there are so many young men still in the prisons, and yet a political party will not take a stand until it has been able to determine how it'll serve its own interest and affect its standing with the Centre. Betrayal. The worst reactionaries make avowals of their sympathy for us, and in the process, they

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spoil our image in the public eye. Betrayal...And the same ones now write spoil our image in the public spoil

This intricate web of illusion and betrayal ensuares almost everyone. The proletariat This intricate web of industrial transfer and the proletariat often believes that those involved in revolution "hate whatever exists" (Devi 19), making them

susceptible to the ploys of a handful of bourgeois manipulators.

ible to the ploys of a handful of boungers and these machinations, falling prey to the Individuals like Anindya become ensuared in these machinations, falling prey to the Individuals like Attitudy becomes the previous temptations set by the bourgeoisie, ultimately leading to the betrayal and death of figures like temptations set by the bourgeoisie, and times dangles the allure of material power and benefits.

Brati and his group. The bourgeoisie at times dangles the allure of material power and benefits. Brati and his group. The bourgeone and benefits, luring the majority into their trap. Nandini acknowledges this fact to Sujata, confessing, luring the majority into their trap. Supplying the majority into t "Money, jobs, and power didn't mean a thing to us. But these were the temptations that seduced "Money, jobs, and power distributed those who had joined us only to betray us. You shouldn't underestimate the power of those temptations" (Devi 19).

In Mahasweta Devi's artistic portrayal, Nandini emerges as a symbol of menace to the complacent individuals who overlook the prevailing injustices. As a Marxist rebel, she directs

her vehement resentment toward all of humanity during her conversation with Sujata;

How can you be so smug and complacent? With so many young men killed. so many imprisoned, how can you wallow in your complacency? It's your 'all's right with the world, let's go on nicely' that frightens me most. How can you carry on with your pujas, concerts, cultural festivals, film festivals, poetry fests? (Devi 26).

In her resistance against societal divisions and injustices, Nandini stands as a bridge between the cunning and strategic bourgeoisie and the ignorant and uneducated proletariat, both favouring and disdaining one another. She endeavours to awaken the uninformed masses, who, despite their actions seemingly emanating hatred for the status quo, harbour an underlying desire to love and revere what lies beneath it all: "behind all our (their) apparent hatred lay a craving to love and to revere" (Devi 19).

The class struggle that emanated from Naxalbari in the Darjeeling district, initially framed as a conflict between landowners and peasants, swiftly evolved into a mass movement wherein numerous young students, regardless of class distinctions, actively participated. Notably, Charu Majumdar, a prominent figure within the movement, played a pivotal role. His call to students in his article titled "The Party's Summon to Today's Students and Youth," published in Deshbrati journal, urging them to stand in solidarity with the peasants, wielded a profound influence. He articulated, "...in this extremist revolutionary movement, the educated youth's association is necessary. The student youth are not only educated, but they have immense potentiality: courage for sacrifice and power of adaptability" (Deshbrati, 21st August, 1969).

In Mahasweta Devi's "Mother of 1084," the characters Brati and his group are young students hailing from varied social backgrounds yet unified by shared ideals. The ideological kinship among the revolutionaries transcended their class origins. Brati, coming from an elite class, exhibited the same empathy as Somu, a member of a poverty-stricken refugee family, for the vulnerable peasants. Characters such as Nandini, Sanchayan, Dipu, Simran from affluent middle-class backgrounds, as well as Mani and Kushal from left-leaning lineages, felt the same urge to champion the cause of the marginalized as Somu, Laltu, and Bijit from impoverished refugee families. Through Saroj Pal's interrogation of Nandini, the narrative unfolds the involvement of Nandini and her group in arms-related activities. We learn about Mani and Nandini's participation in inter-collegiate rifle shooting, Nandini's resolute decision to train guerrillas in the village, and her plan to learn the manufacturing of pipe guns alongside Partha (Devi 23-24).

The novel lays bare the harsh reality veiled behind the police's repressive mission to quell the revolutionary spirit of the 1970s. It exposes the greed and self-interest of a faction

ICLSGM - 2023 Page 12 embodying bourgeois sentimentality. The police ostensibly safeguarded the people while working to benefit the bourgeois class at the expense of commoners' lives. This decade witnessed violence, bloodshed, torture, and repression, engulfing Bengal in a reign of terror. Saroj Pal, the "bloody cur of police," labels the mass action of youthful revolutionaries as "a cancerous growth on the body of democracy" (Devi 9). This underscores the severe conflict and ideological chasm that pervaded the tumultuous period of the seventies.

Blinded by the cascade of promotions in his professional trajectory, Saroj Pal remains oblivious to any positive outcome resulting from the actions of the revolutionaries. His duty perpetually entails quelling mass actions, shifting from one location to another. Swift elevation is granted to him for his supposed "heroic role in the suppression of the Naxalite revolt" (Devi 9), a recognition that he readily embraces. Any traces of humanity seem to have vanished within him, replaced by an inhuman demeanour when dealing with the revolutionaries. Words like compassion and empathy are conspicuously absent from his vocabulary. During Nandini's interrogation, his immorality transcends all bounds. He distorts the very essence of manhood, conventionally seen as the protector of feminine virtue. In the confines of a police station's solitary cell, he subjects Nandini to psychological torment, displaying photographs of the deceased Somu, Bijit, and Brati. He then "bends closer to her, lights a cigarette, presses the lighted cigarette to Nandini's cheek" (Devi 25), and even stoops to physical dishonour.

In reality, Saroj Pal lives a life rife with intrigue and hypocrisy. His outward demeanour is a stark mismatch with his concealed reality. A glaring discrepancy exists between his words and actions, as he attempts to reassure Sujata and her husband Dibyanath by stating, "I know, I too have a mother. No, Mr. Chatterjee, it won't get into the papers" (Devi 9). Meanwhile, he has taken the lives of numerous young revolutionaries, leaving countless mothers bereft of their children. The disturbing and distorted portrayal of the police, manipulated by powerful bourgeoisie, comes to light when no police officer files a report on Somu's father's behalf, despite his son Somu and his group, including Brati, battling against hooligans. This unsettling truth is revealed by Somu's mother during Sujata's visit to her home.

Mahasweta Devi unveils a distorted image of the police force, ostensibly the protectors of democracy and citizens' rights, exposing the illusory realm of misguided principles that ensnares many. This skewed perspective is propagated by a faction of bourgeois individuals. Beyond the social and public sphere, the novel "Mother of 1084" delves into the same portrayal of Marxist class struggle within the realm of the family. In the domestic arena, this struggle may not be as overt as in the societal context, yet the fire of rebellion burns just as intensely, albeit in a subdued and concealed manner. Within Dibyanath's household, Brati's presence is overshadowed by his distinct ideals that stand in stark contrast to those held by the rest of the family. Sujata, too, faces condemnation from her own family due to her unwavering attachment to her son Brati.

In this moment, Sujata's speech serves as a conduit to expose the hypocritical, self-satisfied lives led by the members of Dibyanath's household. Immune to the currents of revolution, they epitomize the majority of humanity who pursue self-centered existences, disconnected from those who champion selfless idealism. This portrayal underscores the broader theme of societal detachment from profound ideologies and the subsequent entrenchment in self-serving routines. Encircled within the confines of narrow and shallow familial ideals, both Brati and Sujata experience the stifling atmosphere of bourgeoisie sentimentality that envelops them. Relief only comes when they break free from its grasp.

Sujata's concluding speech in the novel "Mother of 1084" not only signifies the awakening of a previously apolitical mother but also conveys a social message to those who turn a blind eye to injustices and other unethical practices perpetuated by the bourgeoisie. "Why don't you speak? Speak, for heaven's sake, speak, speak, speak! How long will you endure it in silence?" (Devi 31) Fueled by fury and indignation, Sujata addresses the lifeless and dormant

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masses, branding them as "Corpses, stiffened corpses, all of you!" (ibid). She employs biting sarcasm against those leading a shadowy existence, apathetic to the ongoing injustices, while maintaining a safe distance from those who stand in opposition, sacrificing their lives for the greater good, propelled by vitality and determination: "Do the living die, only to leave the world to the dead to enjoy? No! Never!" (Devi 31) Sujata's final speech serves as the narrative's culmination, encapsulating the novel's purpose—awakening the ignorant proletariat to rise against the cunning and influential bourgeoisie. It delivers a resounding call to action and encapsulates the novel's ultimate intent.

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No. of Teachers		
Participant	:-	
No. of Girls Participant	:-	
No. of Boys Participant	:-	
No. of people participant	:-	
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'कवी शेषराव पिराजी धांडेंची नवी अनुभूती व नव्या जाणिवेची कविता'

डॉ. अशोक रा. इंगळे आकोट, जि.अकोला.

प्रास्ताविक : समकालीन प्रवाहात ज्यांनी स्वतःला मुख्यतः कवितेतून अभिव्यक्त होणं पसंद केलं त्या मराठीतील नामवंत कर्वीमध्ये अरुण काळे, लोकनाथ यशवंत, मंगेश नारायणराव काळे, केतन पिंपळापुरे, सुनील अभिमान अवचार, शशिकांत हिंगोणेकर व कल्पना दुधाळ इ. कवी, कवियत्रींसोबत आता शेषराव पिराजी धांडेंचा समावेश करावा लागतो. या कवींनी आपली संपूर्ण सर्जनशील प्रतिभाशक्ती केवळ कवितेचा अवकाश समृद्ध होण्यासाठी खर्ची घातली. यातील प्रत्येकाने चारपेक्षा अधिक कवितासंग्रह मराठी वाङ्मय विश्वात दाखल केलेले आहेत. विशेषतः मराठी कवितेच्या मुख्य धारेतील समीक्षकांनी या कवींच्या कवितेची दखल सुद्धा घेतली आहे.

शेषराव पिराजी धांडे हे प्रयोगशील कवी आहेत. 'बिघडलेले होकायंत्र' (२०१९) हा त्यांचा चौथा नवा कवितासंग्रह यापूर्वी त्यांचे "विद्रोही (१९९४), रस्ता सोडून चालला कुठं?(२००९), आमचा आलेख कोराच!(२०१६)'' हे कवितासंग्रह प्रकाशित झालेले आहेत. 'विद्रोही' या पहिल्या संग्रहात चळवळीच्या तुटलेपणाच्या वेदनेचा स्वर तीव्रपणे उमटतो. 'रस्ता सोडून चालला कुठं?' यातील कवितेमध्ये राजकीय व सामाजिक चळवळीच्या स्थित्यंतरातील अंतर्विरोध आणि घडुन येत असलेल्या विसंवादाचे कठोर स्वपरीक्षण समोर येते. 'आमचा आलेख कोराच!' या संग्रहातील कवितेत रुढप्रेमकवितेपेक्षा वेगळी प्रेमानुभूती त्यांनी आविष्कारली आहे. तथाकथित उच्चवर्णीय वर्गातील प्रेयसी व दलित प्रियकराच्या रक्ताळलेल्या, ठेचाळलेलया दुःखी मनाची वेदना सामाजिक व्यवहाराच्या पातळीवर प्रकट झाली. म्हणून मराठी कवितेच्या प्रांतात प्रेमकवितेचा हा नवा आविष्कार ठरतो. आता त्रेपन्न कवितांच्या चौथ्या संग्रहात धांडे मोडकळीस आलेल्या वर्तमान समाजव्यवस्थेतील नीती, मूल्य व तत्त्वांच्या पडझडीचा, वैविध्यरुपी प्रवृत्तीचा काव्यात्मक आलेख साकारतात. असा स्वतःच्या शैलीचा प्रयोगशील ठसा उमटवित घांडेंनी चारही संग्रहाला संस्कमरणीय केले आहे.

अस्वस्थ कार्यकर्त्यांची कविता एक अन्वयार्थ / २७१

एकूणच, शेषराव पिराजी धांडेंची आंबेडकरी जाणिवेची कविता स्वतः चा चेहरा घेऊन प्रकट झाली आहे. सामाजिक भानातून या कवितेने जे चिंतन साकारले ते समकालीन आंबेडकरी कवितेमध्येच नव्हे तर एकूण मराठी कवितेचा अवकाश समृद्ध करणारे आहे.

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 - ट. . . दलित प्रेम कविता संपादन, डॉ.शरणकुमार लिंबाळे, दिलीपराज प्रकाशन,
- पुणे. पृ.१०. शेषराव पिराजी धांडे यांचे प्रसिद्ध झालेले चारही कवितासंग्रह.



'वंचितांच्या मुक्तीचा ध्यास घेतलेली अर्जुन डांगळे यांची कथा'

डॉ. अशोक रा. इंगळे

एकविसाख्या जातकातील दुमरे दशक संपताना अर्जुन उमाजी डांगळे यांच्या गौरवग्रं धाच्या निभित्ताने 'ही बांधावरची माणसं' या त्यांच्या कथासंग्रहाविषयी विश्लेषणात्मक मांडणी प्रस्तुत लेखात वर्तमानाचा बदलता संदर्भ लक्षात घेऊन केली आहे.

आंबेडकरी कथालेखनाचा आरंभिंबिट् डॉ. बाबासाहेब आंबेडकरांनी काढलेल्या 'जनता व प्रबुद्ध भारत' या वर्तमानपत्रामध्ये प्रसिद्ध झालेल्या कथांमध्ये शोधता येतो. बंधुमाधव, अण्णा भाऊ साठे व शंकरराव खरात यांना पुढे दिलतमुक्ती कथेचे शिल्पकार संबोधले गेले. या कथाकारांना दिलतं हे संबोधन इथाल्या प्रस्थापित अभिजन व्यवस्थेने बहाल केले. कालांतराने हींच संज्ञा भारतीय स्तरावर रूढ होऊन स्थिरस्थावर झाली हे सर्व वितितन व्यव

अर्जुन डांगळे यांचा 'ही बांधावरची माणसं' हा कथासंग्रह प्रथम मागोचा प्रकाशन, पुणेद्वारा १९७९ मध्ये प्रसिद्ध झाला. त्यापूर्वी मराठी साहित्याच्या प्रांतात बाबुराव बागुल यांनी कथाकार म्हणून आपली नाममुद्रा ठळक केली होती. मराठी कथेचा प्रांत त्यांनी खऱ्या अर्थाने विस्तीर्ण केला होता. दलित

२२२ / छात्रणी

वैशिष्ट्यपूर्ण ठरते. प्रामीण आणि नागरी भावविश्वाला ती एकाच वेळी कवेत घेते. मोजकी पात्रस्वना घेऊन आशय व्यक्त करणे हे डांगळेंच्या कथारचनेचे वैशिष्ट्य म्हणावे लागते. 'ही बांधावरची माणसं' या कथासंग्रहातील अकराही कथारचनेतृन त्यांची प्रत्यवकारिता येते.

एक्णच, दलितमुक्तीसाठी लिहिली गेलेली डांगळे यांची कथा प्रचारकी थाटाची नाही. या कथेची त्वचा संघर्षात्मक बाण्याची आहे. या कथेचील आशयविश्वामांगे सच्चा कार्यकर्त्वाचे सिक्रय मन विशिष्ट मुल्यजाणियेने घडणडते. ही मुल्यजाणीय उपेक्षितांच्या मानवमुक्तीची आहे. म्हणूनच या कथेला विचारंच्या कल्याणाचा ध्वास लागलेला आहे. त्यामुळे ती आपल्या समाजाचे पक्षधर म्हणून समर्थपणे प्रतिनिधित्व करते, असे म्हटले तर वावगे ठरणा नाही.

CB

अर्जुन डांगळे गौरवग्रंथ / २३३



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STUDY OF DIETARY GARLIC INDUCED EFFECTS ON BIOCHEMICAL PROFILE OF Clarias Batrachus (LINNAEUS, 1758)

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ABSTRACT

The present work was carried out to study the effect of dietary garlic on biochemical profile of *Clarias batrachus*. The fish were fed on control and experimental diet for 30 days. The collected samples were analyzed for biochemical profile by using automated analyzers. The results proved that dietary garlic improved the lipid profile, protein and albumen content of serum. The obtained results cleared that dietary garlic (*Allium sativum*) improved the biochemical profile of *Clarias batrachus* so garlic should be added to the diets of fish.

Keywords: biochemistry, Clarias batrachus, feeding formulated diet, garlic.

Introduction

The species Clarias batrachus is locally known as Magur. It has an elongated body shaped and reaches almost 0.5 m in length and 1.2 kg in weight. It is mainly grey or grayish brown in colour; often covered laterally in small white spots. It has long based dorsal and anal fins, several pairs of sensory barbells. The skin is without scales but covered with mucous which protect the fish when it is out of water. This fish is normally lives in slow moving and stagnant water of ponds, swamps, streams and rivers, paddy fields or temporary pools (Joshi and Gulhane, 2015). The garlic supplementation to the diet of Clarias batrachus help to improve the growth performance. It is probably one of the earliest known medicinal plants. Garlic contains Alliin, Allicin and volatile oils. Allicin gives garlic its characteristic pungent smell. Also, it contains vitamins and minerals and trace elements like selenium and germanium (Hassaanet al., 2014; Joshi et al., 2015; Hassaan and Soltan, 2016; Joshi and Gulhane, 2017, Petropoulos et al., 2018).

The present work was carried out to study the effect of dietary garlic on hematological profile of *Clarias batrachus*.

Material and methods Materials and Methods

The present investigation aimed to analyze the effects of dietary garlic on biochemical profile of *Clarias batrachus*. For the presented experiment, the following protocol suggested by Joshi (2017) was adopted

Experimental fish: The fishes measuring about 20±0.5 cm length and weighing ranges from 50±05g in weight were selected for the experimental study. Fishes were transferred to the place of experiment and acclimated for a week. During the acclimation, fish were fed the experimental diet to satiation twice a day at 09:00 and 15:00 hours. After acclimation, fish were fasted for one day; batch weighted and randomly distributed among density of 10 fish per tank. During experiment, the water quality, aeration and light: dark cycle of 12:12 h was maintained (Joshi *et al.*, 2015).

Experimental diet and feeding regime: The basal experimental diets were formulated with the commonly available ingredients. The formula and analyzed proximate composition of the basal diet are shown in Table 1. The ingredients were dried, grinded, milled, weighed, mixed and pelleted. After pelleting, the feeds were air dried and put in an air-tight container. During the experiment, fish were fed the experimental diet to satiation third a day at 08:00, 12:00 and 16:00 hours.

Table 1: Formulation of experimental fish diets with different concentration of garlic powder and oil (g/100g diet).

Sr.	Ingredients (g dry	Control	Control Garlic Powder		Garlic Oil	
	wt.)	G1	G2	G3	G4	G5
1.	Wheat flour	45	42.5	40	43.75	42.5
2.	Soybean flour	25	25	25	25	25
3.	Corn flour	10	10	10	10	10
4.	Meat powder	15	15	15	15	15
5.	Soybean oil	05	05	05	05	05
6.	Garlic Powder	-	2.5	5	1.25	2.5

Table 2: Serum biochemistry of freshwater fish *Clarias batarchus* fed on control and garlic formulated diet for 30 days

		Control		Garlic Powder			Garlic Oil				
Sr.	Parameter	G0		G1 (2.5 %) G2 (5%)		G3 (1.25 %)		G4 (2.5 %)			
No.		Mean	+SD	Mean	+SD	Mean	+SD	Mean	+SD	Mean	+SD
1.	Serum Triglycerides (mg/dl)	230.7	0.68	300	0.884	392.19	1.156	346.05	1.02	438.33	1.292
2.	Serum Total Cholesterol (mg/dl)	459.84	12.84	419.84	18.12	336	31.68	402.8	22.04	335.2	21.36
3.	HDL- Cholesterol (mg/dl)	50.2	1.42	65	1.846	85.34	2.414	75.3	2.13	95.38	2.698
4.	LDL- Cholesterol (mg/dl)	319.39	3.116	290.3	2.132	270.77	2.788	280.15	2.46	220.1	1.64
5.	VLDL- Cholesterol (mg/dl)	66.88	2.28	59.84	2.04	46.0	1.56	52.8	1.8	35.2	1.2
6.	Total Serum Protein (g/dl)	7.8	1.2	10	1.56	13.26	2.04	11.7	1.8	14.82	2.28
7.	Serum Albumen (g/dl)	6	0.5	8	0.65	10.2	0.85	9	0.75	11.4	0.95
8.	Serum Glucose (mg/dl)	101.023	2.242	90.389	2.006	69	1.534	79.755	1.77	53.17	1.18
9.	Serum Creatinine (mg/dl)	1.11	0.21	1	0.273	1.887	0.357	1.665	0.315	2.109	0.399

Biochemical Analysis: After 30 days of feeding, the blood samples of fish were collected directly from heart with the help of syringe. The blood samples were preserved into the vials. The biochemical estimations were performed by using the automated analyzer (Kharat and Kothavade, 2012).

Statistical Analysis: Data were collected, organized and analyzed by using Microsoft

Excel program. Results were recorded as mean \pm standard deviation (SD) of survived individuals.

Results and Discussion

It is cleared that garlic is one of the main vegetable that extensively cultivated in many countries. It is used as food for humans as well as some animals and as remedy for several diseases, as reported in folk medicine. The effects of dietary garlic on biochemical profile of *Clarias batrachus* after 30 days were studied. The results related to serum biochemistry of *Clarias batrachus* fed on control and experimental diets for 30 days were as given below (Table 2). The results proved that dietary garlic improved the Hematological composition, lipid profile, protein and albumen content of serum.

The serum biochemical variables are good predictors for explaining the health status of fish (Hrubec et al., 2000) and the improvement in hematological and biochemical profile of fish is mostly influenced by environmental factor and diet supplementation (Acharya and Mohanty, 2014; Rao et al., 2017). Serum Biochemical content in fish gives a guide to the health status of fish and can be helpful to determine any abnormalities arising from the use of feed additives. Furthermore. Fazllolahzadeh al.(2011) assumed that the improved biochemical indices such as lipid profile, total protein, albumen attributable to the improved metabolic activities. The serum glucose and creatinine level was nor significantly different in control and experimental fishes. The present study is consistent with previous studies of Sahuet al., (2007); Soltan and El-Laithy (2008); Talpur and Ikhwanuddin (2012); Yilmazand Ergün (2012); Hassaan et al., (2014); Hassaan and Soltan (2016), Adineh, et al. (2020); Akter and Hossain (2021); Edeh et al. (2022) and name a few. Hence these findings suggested that the present improvement in hematological and biochemical profile is influenced by dietary garlic.

Conclusion

The obtained results cleared that dietary garlic (*Allium sativum*) improved biochemical profile of *Clarias batrachus* so garlic should be added to the diets of fish.

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Dietary Wheatgrass Induced Effects on Nutrient digestibility in Freshwater Fish Channa Punctatus (Bloch, 1793)

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Abstract

Study aims to assess the dietary wheatgrass induced effects on nutrient digestibility in freshwater fish *Channa punctatus* (Bloch, 1793). Fishes were fed on control and wheatgrass (3 %, 6%, 9 %, 12%, 15 %) based formulated feed. It shows that the dry matter digestibility increases from 94.43 ± 1.21 to 94.97 ± 1.89 %; organic matter digestibility improved from 87.46 ± 2.90 to 89.47 ± 1.97 %; crude protein digestibility increased from 90.25 ± 2.05 to 92.16 ± 2.44 %; crude lipid digestibility increased from 89.12 ± 2.13 to 90.01 ± 2.29 %; nitrogen digestibility increased from 88.76 ± 2.44 to 90.45 ± 2.50 % and digestible energy was observed to be enriched from 89.66 ± 2.75 to 91.54 ± 3.12 . The control and test feed groups were not significantly different (P<0.05) from each other. The nutrient digestibility in fish fed on control and wheatgrass based formulated fish feed showed the improved dry matter, organic matter, crude protein digestibility, crude lipid digestibility with enriched digestible energy with group fed with high level of dietary wheatgrass.

Keywords: Channa Punctatus, Formulated feed, Freshwater Fish, Nutrient digestibility, Wheatgrass