



ADIWASI SHAIKSHANIK SANSHODHAN SANSTHA'S SADAK/ARJUNI

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Research Journey

Year of Publication  
April 2022

Name of Publisher  
Swatidhan international Publication

April-2022

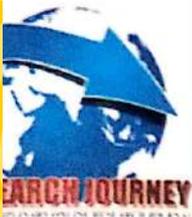
E-ISSN - 2348-7143

Total number of books  
in edited vol./ published  
international collection

International Research Fellows Association's  
**RESEARCH JOURNEY**

International E-Research Journal  
Peer Reviewed, Referred & Indexed Journal  
Issue 293

**Multidisciplinary Issue**



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## **Pandit Nehru's Panchsheel for Peaceful 21<sup>st</sup> Century World**

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Jawaharlal Nehru was one of the key figures of the 21<sup>st</sup> Century. He symbolized some of the major forces which have transformed our age. His activities in the year of India's struggle for freedom made him not only an intense nationalist, but one of the best leaders of humanism. He was intensely involved with the problem of the poor and the oppressed in all lands. In doing so, Jawaharlal Nehru gave articulation and leadership to millions of people in his own country and in Asia and Africa.

As leaders free India, Jawaharlal Nehru recognized that his country could neither stay out of the world nor divest itself of its own interests in world affairs. But to the extent that it was possible, Jawaharlal Nehru sought to speak objectively and to be a voice to help on certain occasions to maintain peace if it is for the future historian to assess what we know is that for a long stretch of time he commenced as an international audience reaching for beyond governments that he spoke for ordinary sensitive thinking men and women around the globe.

India is singularly lucky in having three outstanding personalities whose thoughts have not only influenced our own people but the entire globe. Gandhi, Tagore and Nehru were leaders of world class. "Gandhi applied the homilies of the Sermon on the Mount especially the injunction to return good for evil," says Louis Untermeyer. Pro J.L. Kachoo notes that the poets in Tagore made him humanist, Universalist and Nehru, the patriot, beloved in India as the first step to progress. Yet he knew that political independence is a means and not an end and only through dedicated effort, education and respect for the rights and opinions of others can a people become truly free. Nehru's finest contribution was in his handling of the foreign affairs by evolving a new concept – Panchsheel.

In evolving this policy, Pandit Nehru drew from India's age-old principles of non-violence and tolerance. As history records it, Nehru has been very loyal to the principle of Panchsheel, in spite of the state of criticism it attracted in India. But many countries in the world have accepted it.

Against the background mentioned in the opening paragraph, it would be apt to understand the concept of Panchsheel as by Pandit Nehru. In a speech made in Lok Sabha on 17<sup>th</sup> September 1955, Nehru propounded his concept in the following words. What are the five principles of Panchsheel? They are very simple.

"The first one is, the recognition by countries of their independence and each other's independence, sovereignty and territorial integrity. The second one is non-aggression, the third is non-interference with each other and the fourth is mutual respect and equality and the fifth is co-existence, non-interference-political, economic or ideological."

He elaborated further,

"The concept of Panchsheel means that there may be different ways of programmed possible different outlooks, but that, broadly, the ultimate objective may be the same. I may use another type of analogy, truth is not confined to one country or one people; it has too many aspects for anyone to presume that he knows all and each country, each people. If they are true to



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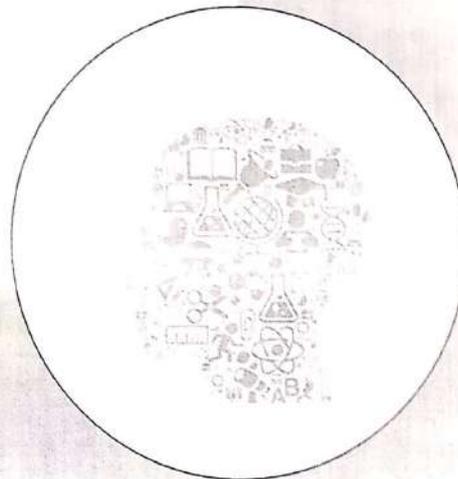
International Journal of Advanced and  
Applied Research

Year of Publication  
Dec 2021

Name of Publisher  
Young Researcher association Publication

ISSN No 2347-7075  
Impact Factor- 7.328  
Volume-1 Issue-5

**INTERNATIONAL  
JOURNAL of  
ADVANCE and  
APPLIED  
RESEARCH**



**Publisher: P. R. Talekar**  
Secretary,  
Young Researcher Association  
Kolhapur (M.S). India

Young Researcher Association

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**A Study Of Solid Waste Management Regulation In Maharashtra State**

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**Abstract:**

Maharashtra Government constituted Maharashtra Pollution Control Board for monitoring of Solid waste management which involves the activities associated with generation, storage, collection, transport, processing and disposal of solid waste, which is environmentally compatible adopting principles of economy, aesthetics, energy and conservation. It consists of planning, organization, administration, financial, legal and engineering aspects. Suitable legislation and regulations provide an effective working system for taxation and its realization. Maharashtra Pollution Control Board (MPCB) is implementing various environmental legislations in the state of Maharashtra, mainly including Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, Water (Cess) Act, 1977 and some of the provisions under Environmental (Protection) Act, 1986 and the rules framed there under like, Biomedical Waste (M&H) Rules, 1998, Hazardous Waste (M&H) Rules, 2000, Municipal Solid Waste Rules, 2000 etc. MPCB is functioning under the administrative control of Environment Department of Government of Maharashtra.

The policy and legislative framework forms the backbone of any implementation system. The solid waste management in Maharashtra is covered under various regulations. It is covered through various national as well as state level regulations. Every municipal authority under Maharashtra Government comes under the municipal solid waste (Management and Handling). Local bodies in the country are governed by various laws enacted by their state legislatures. The solid waste management can improved by modernizing the solid waste management system by the urban local bodies and ensuring public participation by providing adequate legislative support. A policy framework is necessary to guide the urban local bodies in the country for managing the solid waste scientifically and cost effectively.

**Keywords:** Solid Waste Management, Urban Local Bodies, Performance disclosure, Liability Laws

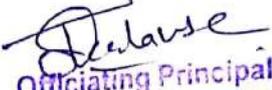
**Introduction:**

Solid wastes area unit being made since the start of civilization. Over the years, there has been a continuous migration of individuals from rural and semi-urban areas to cities and cities. The proportion of population residing in urban areas has enhanced from 10.84 in 1901 to 25.70 in 1991. The uncontrolled growth urban areas has left several Indian cities deficient in infrastructural services like installation, sewerage and municipal solid waste management.

Solid Waste Management may be a part of public health and sanitation. Solid Waste Management is one in all the foremost neglected aspects of India's setting. The management activity being of a neighborhood nature, the urban native Body undertakes the task of solid waste service delivery, with its own employees, instrumentation and funds. Satisfactory performance of any utility depends on institutional infrastructure with needed hands and instrumentation, adequate monetary inputs, legislative powers and public response.

Maharashtra Pollution Control Board (MPCB) is implementing various environmental legislations in the state of Maharashtra, mainly including Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, Water (Cess) Act, 1977 and some of the provisions under Environmental (Protection) Act, 1986 and the rules framed there under like, Biomedical Waste (M&H) Rules, 1998, Hazardous Waste (M&H) Rules, 2000, Municipal Solid Waste Rules, 2000 etc. MPCB is functioning under the administrative control of Environment Department of Government of Maharashtra.

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A Study of Web 1.0 to 3.0

Year of Publication  
Dec 2021

Name of Publisher  
The Royal Gondwana

**AGPE THE ROYAL GONDWANA RESEARCH JOURNAL**  
OF HISTORY, SCIENCE, ECONOMIC, POLITICAL AND SOCIAL SCIENCE

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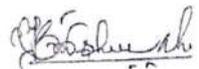
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**A STUDY OF WEB 1.0 TO 3.0**



**GONDRAJE DR. BIRSHAH ATRAM**  
EDITOR IN CHIEF



**Volume-2 | Issue-2**

**OCT-DEC 2021**

**ISSN NO: 2582-8800**

**RNI Reg.: MAHMUI/2019/78986**



## A STUDY OF WEB 1.0 TO 3.0

**Kamlesh Patil**

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### Abstract

The WWW is more and more used for application to application communication. The programmatic interfaces made available are referred to as web services. Most people today can hardly conceive of life without the internet. The web of documents has morphed into a web of data. The semantic wave embraces three stages of internet growth. The first stage, web 1.0, was about connecting information and getting on the net. Web 2.0 is about connecting people putting the "I" in user interface, and the "we" into a web of social participation. The next stage, web 3.0, is starting now. It is about representing meanings, connecting knowledge, and putting them to work in ways that make our experience of internet more relevant, useful, and enjoyable.

**Keywords:** WWW, Web 1.0, Web 2.0, Web 3.0, Web services, Web Technology, Web Application

### Introduction

A web service is a software system designed to support computer-to-computer interaction over the Internet. Web services are not new and usually take the form of an Application Programming Interface (API). In today's world of extreme competition on the business front, information exchange and efficient communication is the need of the day. The web is an increasingly important resource in many aspects of life: education, employment, government, commerce, health care, recreation, and more. The web is a system of interlinked, hypertext documents accessed via the Internet. With a web browser, a user views web pages that may contain text, images, videos, other multimedia and navigates between them using hyperlinks. The web was created in 1989 by Sir Tim Berners-Lee, working at CERN (The European Organization for Nuclear Research) in Geneva, Switzerland. Since then, Berners-Lee has played an active role in guiding the development of web standards (such as the markup languages in which web pages are composed), in recent years has advocated his vision of a Semantic Web. Web 1.0 was the era when people could think that Netscape was the contender for the computer industry crown. Web 2.0 is the era when people have come to realize that it's not the software that enables the web that matters so much as the services that are delivered over the web. New technologies will make online search more

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A Study of Web 1.0 to 3.0

Year of Publication  
Dec 2021

Name of Publisher  
The Royal Gondwana



## APPRAISAL OF TRIBAL DEVELOPMENT EFFORTS BY GOVERNMENT OF INDIA- A CASE STUDY

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It is important to know the status of the Tribal population in India; its characteristics and distribution of the same in various part of India. But it is not easy to define a tribe, in general, the tribal are expected to possess some unique characteristics. In present era still lot to do for Tribal Population to bring them in main flow of overall development. Government of India continuously focused to upliftment of Economical, Social and Cultural values. Government has made policies to ensure the Tribal development. Before construct the solid structure of development it is important to study the characteristics of the Tribal population. Over all the characteristics of all tribal communities are different from each other. Therefore Government made policies for micro level to ensure the 100% success rate of implementation of policies. The Government of India has specified 427 communities and has included them in the Schedule Tribes and are entitled to Special protection and privileges under the constitution of India. According to census 2011 it shares 8.6% of the total population of India; which was 10.45 crore.

It is not easy to define a tribe, in general, the tribal are expected to possess some if not all the following characteristics:

1. Their roots in the soil date back to a very early period.
2. They live in relative isolation of the hills and forests
3. Their sense of history is shallow in the sense that after some generations, the remembered history tends to shade off into mythology.
4. They have a low level of techno-economic development
5. In terms of their cultural ethos (language, institution, beliefs and customs) they stand out from the other sections of the society and
6. Even if they are not egalitarian, they are at least non hierarchic and undifferentiated.

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Synthesis of HeterylAmino deravivaties

Year of Publication  
Dec 2021

Name of Publisher  
The Royal Gondwana



## Synthesis of Heteryl Amino Derivatives of Bis[5-Cyano-1,6-Dihydro-6-Imino-2-Isopropyl-4-(Methylthio) Pyrimidine] Diazene

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### ABSTRACT

Study of the synthesis of heteryl amino derivatives of bis[5-cyano-1,6-dihydro-6-imino-2-isopropyl-4-(methylthio) pyrimidine] diazene we have obtained low yield at room temperature than the reaction carried out at the reflux condition.

### 1. INTRODUCTION

The understanding of principles of drug design and development of the drug molecules is important study the physicochemical properties of chemical compounds used to develop novel pharmacologically active compounds. The biological activities, mechanism of actions, possible biological activities of the metabolites and significance of stereochemistry for molecules are important factors for new drug design [1]. All these principles are based on the basic organic chemistry, physical chemistry and biochemistry. Heterocyclic compounds contain, one or more atoms of other elements apart from carbon, common hetero atoms are sulphur, nitrogen and oxygen [2]. The heterocyclic compounds having less common atoms such as silicon, bromine, phosphorus, tin, boron are much investigated in recent years. The heterocycles with five or six atoms in the ring are the most important [3]. The practice of medicinal chemistry is devoted to the research in development of new disease treating agent. The process of finding a new drug is complex and involves talent of people from variety of disciplines [4]. The important aspect of medicinal chemistry is to establish a relationship between pharmacological activity and chemical structure [5].

Pyrimidine is a six membered cyclic compound containing 2 nitrogen and 4 carbon atoms which is pharmacologically inactive however substituted derivatives shows an important place in modern medicine [6]. Pyridazine 1, oxygenated derivative-pyridazinone 2 and benz fused pyridazine or phthalazine 3 are heterocyclic compounds that contain two adjacent nitrogen atoms (1,2-diazine) in the ring structure [7]. They show a high range of pharmacological activities and are found in different natural compounds with different biological activities [8]. Many heterocyclic compounds obtained from synthetic as well as natural sources, generally in practice have one or more nitrogen in the heterocyclic ring system. Diazines (1,2/1,3/1,4) are important heterocyclic rings. Recently, much attention has been focused on diazine derivatives for their broad-spectrum pharmacological activities [9].

  
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The Case Study of Environmental Degradation and need for Environment Management

Year of Publication  
Dec 2021

Name of Publisher  
The Royal Gondwana

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**A CASE STUDY OF ENVIRONMENTAL DEGRADATION & NEED FOR  
ENVIRONMENTAL MANAGEMENT**

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**ABSTRACT**

Environmental degradation may be a method through that the natural atmosphere is compromised in how, reducing biological diversity and also the general health of the atmosphere. This method is entirely natural in origin, or it is accelerated or caused by human activities. Several international organizations acknowledge environmental degradation mutually of the key threats facing the world, since humans have solely been given one Earth to figure with, and if the atmosphere becomes irreparably compromised, it might mean the tip of human existence. Man moving on the trail of development has turned from changer to electrical device and currently to destroyer of the atmosphere. He's progressing incessantly and meticulously. At the same time, natural atmosphere is disintegrating. If truth be told there's a limit of assimilative external changes within the natural system, however interference has crossed this higher limit, leading to giant scale degradation and pollution of the atmosphere and origin of many environmental crises. Therefore man should pay the price of development within the sort of environmental destruction. The central of environmental degradation is that the main issue. Each the natural and cultural hazard have forced the dimensions environmental degradation. The world atmosphere is facing variety of issues thanks to increasing organic phenomenon pressure, deforestation, over exploitation of natural resource and pollution. The environmental degradation is discovered within the sort of eroding, decreasing productivity of agricultural land, climate changes, lack of forest and their merchandise, depletion layer etc. the degradation is seen within the sort of soil degradation, organic phenomenon pressure on agricultural and deforestation.

**Introduction:**

Man moving on the trail of development has turned from changer to electrical device and currently to destroyer of the atmosphere. He's progressing unendingly and meticulously. At the same time, natural atmosphere is disintegrating. If truth be told there's a limit of assimilative external changes within the natural system, however interference has crossed this



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A Study of Web 1.0 to 3.0

Year of Publication  
Dec 2021

Name of Publisher  
The Royal Gondwana

## Green Thiocyanation of Aryl Aldehydes Using Ethyl Methyl Imidazolium Chloride

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### ABSTRACT

A green method for thiocyanation of aldehydes using 1-ethyl-3-methyl imidazolium chloride ionic liquid as a catalyst, provide environmental friendly and simple protocol for thiocyanated aldehydes as major outcome in short reaction time. Different substituted thiocyanated aldehydes are the sole outcomes of this method. These thiocyanato aldehydes are useful intermediates in the synthesis of heterocycles bearing sulfur, in which the thiocyanate group will be readily altered into other sulfur-containing compounds.

**Keywords:** Emim[Cl], Aldehydes, Ammonium thiocyanate, RT (Room Temperature)

### I. INTRODUCTION

An electrophilic thiocyanation of aromatic compounds is significant carbon-heteroatom bond formation reaction, thiocyanates are the versatile synthons in organic synthesis. [10-13] It is innovative and fast methods for synthesis of thiocyanate group containing aromatic systems. In view of the adaptability of thiocyanate group, it will be important to explore this. A number of strategies have been created for the thiocyanation of arenes using different reagents under optimum conditions. [14-16] But only a limited ceric ammonium nitrate [17], Iodine/methanol [18], IL-OPPh<sub>2</sub> [19], potassium peroxydisulfate and HCl/H<sub>2</sub>O<sub>2</sub> [20], Iodine/ammonium thiocyanate [21], ferric chloride/ammonium thiocyanate [22], and oxone/ammonium thiocyanate. [23] Very recently, 2,3-dichloro-5,6-dicyano benzoquinone (DDQ/NH<sub>4</sub>SCN [24], HIO<sub>3</sub>/NH<sub>4</sub>SCN [25] and p-toluene sulfonic Acid/NH<sub>4</sub>SCN [26] have been applied to the thiocyanation of aromatic systems. All these methodologies having some lacunae such as the little availability or tough preparation of substrate, the need of large amount of strong oxidizing reagents, least yields for some compounds, and performed in certain harsh conditions. [27-31] Hence, requirement for build up alternative synthesis path accessible to the thiocyanation is in high insist. [32-36] Increasing attention in the make use of environmentally friendly procedures and reagents, aqueous mediated reactions have gained considerable notice in this, because of environmentally safety reasons. Due to the high dielectric constant and high cohesive energy density water is universal solvent for chemical reactions as compared to other organic solvents. It has also special effect due to which it shows novel solvation and assembly processes and it is ecofriendly, nontoxic, easily available, and inexpensive



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Renboy

Year of Publication  
2021

Name of Publisher  
Shree Nagpur Gujarati Mandal's

Volume-7, 2021

ISSN 2394-6903

# RAINBOW

*Multidisciplinary Peer Reviewed Annual Journal*



Shri Nagpur Gujarati Mandal's

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एस. चंद्रा महिला महाविद्यालय अमगांव जि. गोंदिया

प्रास्तावना - भारतात प्राचीन काळापासून समाज हा विषमतेवर आधारित होता त्यामुळे भारतातील शुद्ध, अस्पृश्य, स्त्रीया दुःखदायक जीवन जगत होते. याच विषमतेचे डॉ. बाबासाहेब आंबेडकरांना लहानपणापासूनच चटके बसलेले होते. डॉ. बाबासाहेब आंबेडकरांनी या सर्व समाजव्यवस्थेचा अभ्यास करून सर्व धर्मागधील स्त्री पुरुषांना एका समान रेषेत आणण्याचा घटनेच्या माध्यमातून प्रयत्न केलेला आहे. समतेच्या तत्त्वसमुळे शुद्ध, अस्पृश्य, स्त्रीया यांना विकास करण्याची संधी प्राप्त करून दिलेली आहे. सर्व समाजव्यवस्थेचा भगवान बुद्धांनी अनुभव घेऊन आपल्या भिक्खू संघात सर्व जाती-धर्मातील लोकांना समतेचे स्थान दिले. स्वातंत्र्य, समता, बंधूतेची शिकवण देऊन संपूर्ण आयुष्यात पंचेचाळीस वर्षे धम्माचा प्रसार-प्रचार केल्याचे दिसून येते. मणूष्य हा जन्मतः समान आहे. आपल्या अधिकाराच्या बाबतीत शुद्धता तो स्वतंत्र आहे. सर्वांना समानतेची संधी उपलब्ध होणे ही व्यक्ति विकासाची पहिली पायरी आहे. प्राचीन व मध्ययुगात समतेच्या तत्वाचा अभाव होता. "मानवनिर्मित विषमता नष्ट करणे म्हणजे समता." विषमतेमुळेच समाजात श्रेष्ठ-कनिष्ठ, उच्च-निच्य, गरीब-श्रीमंत, स्पृश्य-अस्पृश्य असा भेद निर्माण झालेला होता. ही विषमता भगवान बुद्धांनी नष्ट केली. ती पुढील बाबीवरून स्पष्ट होते.

भगवान बुद्धांनी स्त्री-पुरुषात कोणताच भेदभाव केलेला आढळत नाही. सर्वच स्त्री पुरुष हे आपला विकास करू शकतात परंतु त्यांना संधी उपलब्ध करून देणे आवश्यक आहे. निसर्ग प्रचंड आहे. परंतु निसर्ग हा मानवासोबत कधीही भेदभाव करीत नाही. त्याचप्रमाणे भगवान बुद्ध शुद्धा नैसर्गिक नियमांचे पालन करतांना आढळतात.

"कोसल जनपदात इच्छानांगल नावाचे एक ग्राम होते. भगवान बुद्ध आपल्या पाचशे भिक्खूच्या महासंघासह तिथे आले असल्याचे पोखररसत या ब्राम्हण व्यक्तित्तेने ऐकले व स्वतःचे शिष्य अम्बद्ध यांना खरोखरच भगवान गौतम बुद्ध महापुरुषाच्या बत्तीस गुणाने परिपूर्ण आहेत का? हे तपासण्यासाठी पाठविले होते. तरुण ब्राम्हण अम्बद्ध उध्दटतेने भगवान बुद्धाशी आचरण करतो." भगवान बुद्ध त्यास पटवून देतात की, अम्बद्धाचा मूळ वंश हा कोणता होता? तो शाक्याच्या दासीपासून झालेला होता. कन्हायन वंशाची सुरुवातच मुळी 'कण्ह' या दासिपुत्रापासून झाली असली तरी भगवान



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Website: [www.scmmamgaon.com](http://www.scmmamgaon.com)

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B.Aadhar

Year of Publication  
july 2021

Name of Publisher  
Aadhar Publication

Impact Factor-7.675 (SJIF)

ISSN-2278-9308

# B.Aadhar

Peer-Reviewed & Refereed Indexed

Multidisciplinary International Research Journal

ISSUE No- (CCCI)301

July -2021

Impact of Race, Caste, Class and Religion on  
Indian and International Society



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This Journal is indexed in :

- Scientific Journal Impact Factor (SJIF)
- Cosmos Impact Factor (CIF)
- International Impact Factor Services (IIFS)

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Website: [www.scmmamgaon.com](http://www.scmmamgaon.com)

10

Research Journal

Year of Publication  
july 2021

Name of Publisher  
Swatidhan international Publication

July 2021

E-ISSN - 2348-7143

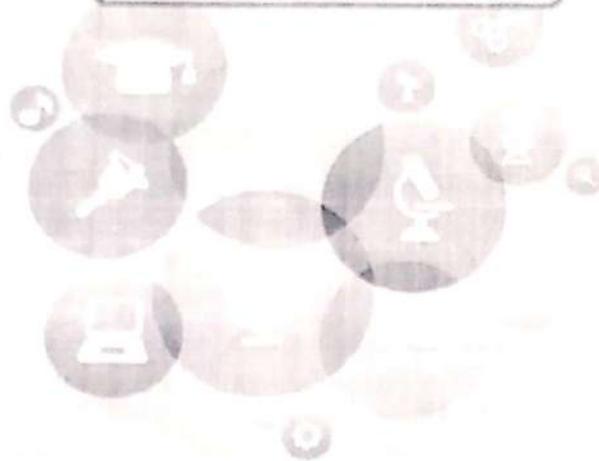
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SWATIDHAN PUBLICATIONS

July 2021

E-ISSN - 2348-7143

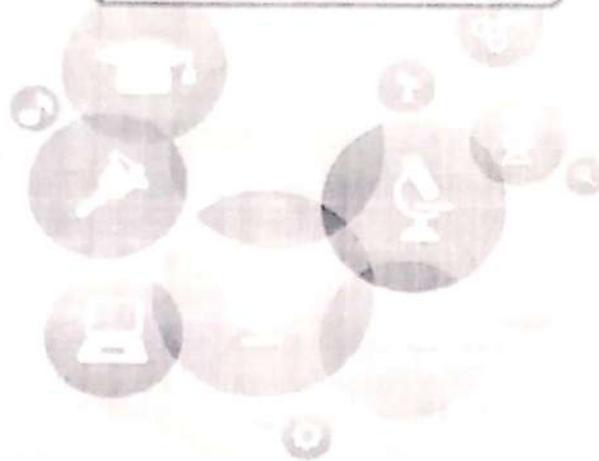
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## Problems and Prospects of Lac Cultivation in Gondia District, Maharashtra

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### Abstract:-

Lac being a natural biodegradable and non toxic material has a bright future as the entire world is looking to and promoting use of such material for creating a better world to live in, with great emphasis on the use of natural resins and dyes in recent years. Lac and lac products are receiving greater attention. The scope of increasing the lac production in country is very high by adopting scientific methods of cultivation and by utilizing available lac host plants on waste lands. It can also be used as an important source of boosting the income of rural marginal-farmers, tribal's inhabiting sub hilly tracts. As it give emphasis on large plantation of host trees mainly palas, Ber and kusum, it is the best use of waste and barren land to check the erosional level, and promote sustainable agricultural development of the area. 'if problems and constraints' of lac cultivation tackled rationally.

**Key words** - lac host plants, eco system, palas, ber, kusum.

### Introduction:-

Lac being a natural biodegradable and non toxic material has a bright future as the entire world is looking to and promoting use of such materials for creating a better world to live in lac as an eco-Friendly non toxic biodegradable and natural material thus has great scope for the use in number of areas. Lac insects are parasite and grown on specific monopoly of lac trade. Subsequently with the advent of synthetic resins the demand for lac went down.

With greater emphasis on the use of natural resins and dyes in recent year, lac and lac productions are receiving greater attention. Lac production in our country has also picked up in recent year. It is thus hope that that India may regain its lost ground in lac production and trade. Brighter future can thus be seen for lac as it is natural, non-toxic and forms renewable, resources. The scope of increasing the lac production in country is very high by adoption scientific methods of cultivation and by utilizing available lac hosts and waste lands. It can also be used an important means for boosting the income of rural. Stable price and effective procurement support, market are yet to be realized. Much needs to be 'done in the direction of modernization and value addition of lac processing and lac cultivation.

### What is Lac:-

Lac (Lakhsa in Sanskrit) is a product of commerce derived from a group of specialized plant bugs commonly known as lac insects which thrive on specific trees called lac hosts, lac is a source of three basic materials, viz, resins, dyes and wax. In India lac production comes mainly through culture of Indian lac insect *kerria lacca* on host kusum and palas. Two lac crops are produced corresponding the two cycle completed by lac insects in one year. The Indian lac insects is represented by two infra sub specific forms namely Kusumi and ranging host plants. Preferences and quality of the lac produced from Kusumi is characterized by high productivity and the best quality of resin produced.

### Lac Insect, host and culture:-

Lac insects settle closely on the host plants and derive their food from the sap of the host. Once settled they become permanently fixed through the resinous secretions, which also form a



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Knowledge Resonance Journal

Year of Publication  
june2021

Name of Publisher  
Research journal Publication

# KNOWLEDGE RESONANCE

ISSN : 2231-1629  
A HALF YEARLY PEER  
REVIEWED REASERCH JOURNAL

(Evaluated in the SJIF Journal Masters List Evaluating  
Process with Impact Factor of 8.072 for Year 2021 )

A Half Yearly National Peer-Reviewed & Indexing with SJIF Impact Factor Research Journal

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Knowledge &  
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Vol 10

No.1

Jan-June 2021



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## WOMEN'S MENTAL HEALTH: DEPRESSION AND ANXIETY

Dr. Trushna S. Kalambe

Assistant Professor (Family Resource Management)  
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**ABSTRACT :** The estimate of the worldwide burden of disease predicts that depression is going to be the second-leading reason for disability worldwide in days to come. Depression is widely seen in women in all age groups especially in a giant country like India where women population lives substantially. In the current scenario of underdiagnosed, untreated cases of females affected by depression, the hurdles faced by Indian women include inadequate number of psychological state professionals, lack of awareness, stigma, disadvantaged position of girls, multiple roles, increased levels of stress, and violence. The literature search included an on-line database, published materials, and standard textbooks. The authors have provided a brief overview of different types of depression in females.

**Keywords:** Depression, female, stigma, domestic violence, India

**INTRODUCTION-**The word depression has become the most commonly used word in our day to day life. This is indeed not a healthy sign for us. We can see the symptoms of depression vividly among all age groups. This is mostly because all of us live in a world of uncertainty, chaos and ambiguity. The constant pressure from our parents, relatives, friends, well-wishers and peers and growing cut throat competition to prove that you are the best among all and in everything, result in depression.

Depression can be seen a serious condition which will impact every area of women's life. It affects social life, family relationships, career, and one's sense of self-worth and purpose. There are several factors that contribute to the unique picture of depression in women from reproductive hormones to social pressures to the feminine response to worry.

We can see Major depressive disorder (MDD) as the commonest psychiatric disorder. Unipolar clinical depression is that the fourth commonest explanation for disability in females, altogether ages as per the worldwide Burden of Disease, 2000. The lifetime prevalence of MDD is 10-25% for ladies, and 5-12% for men. consistent with the planet Health Organization

(WHO), it's also the foremost important precursor of suicide and can be the second explanation for Global Disease Burden by the year 2020, WHO states that the burden of depression is 50% higher for females than males and Indians are reported to be among the world's most depressed. The prevalence of depression is 9%, of major depressive episode is 36%, and therefore the average age of onset of depression is 31.9 years, in India.

The higher rates of depression are reported within the rural compared to the urban population. Up to twenty of these attending primary health care in developing countries suffer from the usually linked disorders of hysteria and depression, but the symptoms of those conditions are often not recognized. The preponderance of female cases of clinical depression is consistent finding from India. Women have the best risk for developing depressive disorders during their child-bearing years. Psychosocial events like role stress, victimization, sex-specific socialization, internalization, coping style, disadvantaged social station, and perceived stigma of mental disease, more in females have all been considered to contribute to the increased vulnerability of girls to depression.

In addition, depression is a crucial consequence of violence, which affects between one-quarter and over one-half of girls at some point in their lives. Routine screening of all female patients visiting general hospital settings for violence should be made mandatory so on prevent detrimental physical and psychological state consequences. Recently, there has been a growing trend in India of shifting the age-old status of girls from homemakers to the labor, which offers them independence, and financial stability. Within the study, released by the Associated Chambers of Commerce and Industry, working women within the age group of 21-52 years were surveyed. Sixty-eight percent of the ladies were afflicted with lifestyle ailments like obesity, depression, chronic backache, diabetes, and hypertension.

It has been often observed that long hours of working under strict deadlines cause up to 75% of working women to suffer from depression or general mental



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Khel Chikisha

Year of Publication  
2021

Name of Publisher  
Research journal Publication



# SIGNIFICANCE AND CHALLENGES IN INFORMATION COMMUNICATION TECHNOLOGY (ICT) IN SPORTS: INNOVATION ENHANCING SPORTS WORLD IN MODERN ERA

Dr. Ajay Atmaram Moon  
Director of physical education  
S. Chandra Mahila Mahavidyalaya Amgaon, Dist. Gondia (M.S.)

## **Abstract**

Information communication technology (ICT) depict the assortment of mechanical devices and assets used to create, disperse, store and oversee data and information (Majoka, Fazal, and Khan, 2013). In the advanced time, these devices have carried insurgencies to preparing and showing techniques of sports and actual training. Quick advancement in ICT have presented development and builds the adequacy of preparing program. Utilizing these high level ICT apparatuses, execution level proceeds to develop and expected degree of execution increments to untouched high (Harward, 2016). ICT improves openness and extend advanced climate to the field of sports and actual schooling (Adu and Olatundun, 2013). It not just let a client to acquire information, it additionally assists with interfacing and speak with the world. It carries changes and changes to teaching method of actual training and sports (Culpan and Bruce, 2007). In this way, in the ebb and flow study the scientist plans to examine about a portion of the prominently utilized ICT devices in the field of sports and actual schooling.

## **Introduction**

In the current decade, innovation upheld preparing and encouraging strategies have carried upsets to sports preparing and actual schooling. The methodology offers inventive and present day approach to defeat the standard limits and challenges in customary preparing and instructing techniques. The methodological changes can be noticeable in all aspects of current preparing and instructing in sports and actual schooling. Presently day's employments of ICT



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Softs Skill

Year of Publication  
2021

Name of Publisher  
Das Ganu Publication nagpur



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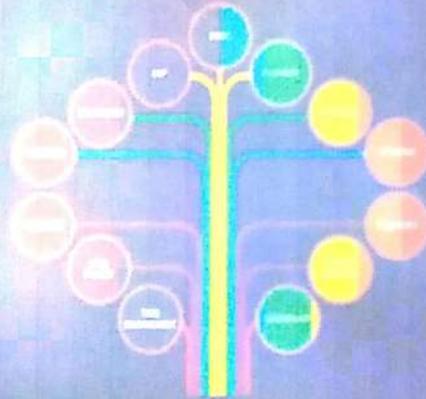
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Sample Protocol for Room Temperature  
ionic liquid Assisted

Year of Publication  
2021

Name of Publisher  
Research juornral Publication nagpur

## SIMPLE PROTOCOL FOR ROOM TEMPERATURE IONIC LIQUID ASSISTED SYNTHESIS OF SUBSTITUTED 1,5- BENZOTHAZEPINES

Chanda Gawande\*<sup>1</sup>, Girish Deshmukh\*<sup>2</sup>

<sup>1</sup>S.Chandra Mahila Mahavidyalaya, Amgaon Dist. Gondia, Maharashtra. (INDIA).

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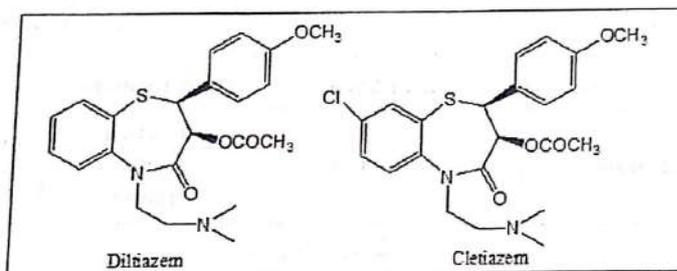
### ABSTRACTS

1-butyl-3-methyl imidazolium perchlorate room temperature ionic liquid can be used as a catalyst for synthesis of substituted 1,5-benzothiazepines. These 1,5-benzothiazepines can be acts as good precursors for synthesis of pharmacologically important heterocycles. These consist of nitrogen and sulfur as heteroatoms due to which they shows interesting properties.

**Keywords:** 1,5-benzothiazepines, Bmim[ClO<sub>4</sub>], RTIL.

### I. INTRODUCTION

1,5- benzothiazepines are very famous for their use in various therapeutic areas. These are referred as benzofused heterocyclic ring having seven members with two heteroatoms that is nitrogen and sulfur. Occupy 5 and 1 positions in cyclic form. Derivatives of 1,5- benzothiazepines having peculiar properties for lead discovery as they are active against wide range of targets. These have ability to show different biological activities. [01] The first nucleus of 1,5- benzothiazepine pharmacologically used is Diltiazem after that cletiazem.



The scaffolds of 1,5- benzothiazepines are used as vasodialator [02], cardiovascular modulator [03], protease inhibitor [04], elastase [05]. Before few days some compounds of 1,5- benzothiazepines detected to show antiulcer activity [06], and anticancer activity [07] such very interesting pharmacological propwerties shown by 1,5- benzothiazepine derivatives make them very good precursor for used as active pharmacological agent in various drug molecules. When cyclohexanone is used as ketonethen phenothiazine will obtained which can also shows many interesting medicinal properties comes under this head. Phenothiazine consist two benzene nucleuses on two sides covering heterocyclic ring at middle. [08]

#### Present work:

In the present work 1,5 benzothiazepine synthesized by using simple and green catalyst RTIL 1-butyl 3-methyl imidazolium perchlorate from aromatic ketone and 2-amino thiophenol in presence of acetonitrile as solvent to obtain high yield.



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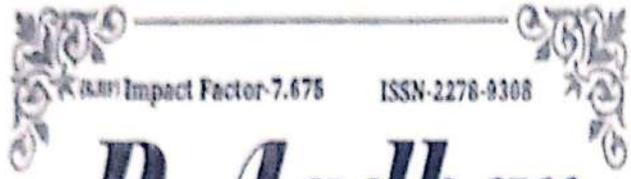
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2

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Year of Publication  
March 2021

Name of Publisher  
Aadhar International Publication nagpur



(SJIF) Impact Factor-7.675 ISSN-2276-9308

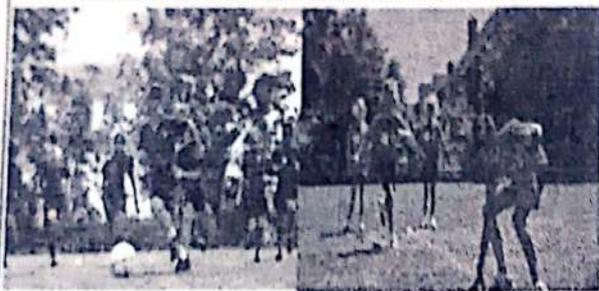
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Peer-Reviewed & Refreed Indexed  
Multidisciplinary International Research Journal

March -2021

ISSUE No- CCLXXVIII (278)D

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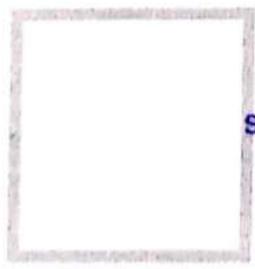
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## योग तथा राजनीति में बदल

Dr. Pramod Deoraj Sardar

S.Chandra Mahila Mahavidyalaya Amgaon, Dist -Gondia

योग का अर्थ बंधन है। संस्कृत शब्द योज से यह बना है। व्यवहारिक स्तर पर योग शरीर, मन और भावनाओं को संतुलित करने और लालचल बनाने का एक साधन है। योग यह प्रकृति विरासत है। और वर्तमान की विरासत है। योग सही तरह से जिने का विज्ञान है और इसलिए इसे इसे वैदिक जिवन में शामिल किया जाना चाहिए। यह हमारे जिवन में जूट पीनिक, मानसिक, भावनात्मक आदी सभी पहलु पर काम करता है। यह योग एक आसन प्रणाम्य मुद्रा और ध्यान के अन्वय के माध्यम से प्राप्त होती है जो योग जिने का एक तरीका भी है। और अपने आप में परम उद्देश्य है।

योग सबसे लाभ पहुंचाना है बाहरी शरीर जो अतन्तम श्लोके के लिए एक व्यवहारिक और परोक्षीत शूच्यता की जगह है। जब इस स्तर पर अनुभव का अनुभव होत है तो अंग मासपेशिया अधिक तरह काम नहीं करती। बल्की एक दुसरे को विरोध में काम करती है। रोज मर्वा की जिदगी के लणाय और चलनीत के परिणाम स्वरूप बहुत से श्लोम अनेक तरह के मानसिक परेशानीया में चिटीन है योग इनका इलजज मुल नती प्रदान करता। खेकीन इसे मुकाबला करने के लिए यह विध विधी है आज की युग में युग का प्रभाव धीरे धीरे बढ़ रहा है।

राजनीती श्लोम का हय अभ्यसन करने है जो हमेशा यह श्लोम भिन्तभी दुनीया में रहने है। अपने परिवात में हमेशा दुर रहने है। देश बनाने के लिए हमेशा इपर उपर लीट चलना यह इनका काम हमेशा दिखाता देता है। और इसका प्रभाव इनके शरीर पर होता है। समाज जो अन्गही बाने या कम होने है इनका इस राजनीती श्लोमे के दिवाग पर लकी होती है। मवा जहा भी यह श्लोम जाने है बहा की श्लोमे की चिन्ता में भरे यह श्लोम होने है। इसलिए अनेक शारीरिक तथा मानसिक लेमे के यह श्लोम शिक्कर होने है। हमेशा नशा फानी, पुषणन में यह श्लोम रहने दिखाई देने है। शरीर तथा मन अन्गना न रहने के कारण यह श्लोम राजनीत में सही निर्णय मती ले सकने । आज की दुनीया में राजनीती लोमे के लिए योग सही उपगार है।

### योग के लाभ -

- शारीरिक और मानसिक उपगार के लिए योग अधिक लाभदायक है।
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Website: [www.scmmamgaon.com](http://www.scmmamgaon.com)

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B. Aadhar

Year of Publication  
2020

Name of Publisher  
B. Aadhar Publication nagpur

(SJIF) Impact Factor-7.675

ISSN-2278-9308

# *B.Aadhar*

Peer-Reviewed Indexed

Multidisciplinary International Research Journal

**March -2020**

**SPECIAL ISSUE : CCXXVI (226)**

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**“Patriarchal System and Domestic Violence in Chimamanda Ngozi  
Adichie’s Purple Hibiscus”**

**-Asst. Prof. Trushna S. Kalambe and Asst. Prof. Swapnil M. Bhagat**  
S. Chandra Mahila Mahavidyalaya, Amgaon

**Abstract**

Patriarchy and Gender based violence have become a serious social problem even of a modern society cutting across cultures, race and nations. The domination of women is the most common and fundamental form of female suppression in any society across the world. This is primarily due to the patriarchal system in the society. This encourages prejudices against women and accepts the subjugation of women by husbands and other family members as normal. Therefore domestic violence has become a regular feature in modern day society. Chimamanda Ngozi Adichie, a prominent African author addresses the issue of gender violence with regard to factors such as Patriarchy, culture, religion and colonial education and focusses on domestic violence in her debut novel, *Purple Hibiscus*. This article explores patriarchal system and gender violence and throws light on how the problem of domestic violence against women is rampant in our society. The study comprised of the detailed discussion on the term Patriarchy and the domestic violence in the novel. It analyses and reveals how patriarchal norms are linked to intimate domestic violence and how this has a direct effect on the position and role of women in the home and how it leads to inequality in society.

**Keywords:** domestic violence, domination, family, gender inequality, oppression, patriarchal ideology, society.

Chimamanda Ngozi Adichie is a Nigerian born writer. She started writing at the very young age and has gone on to be listed as one of the 100 Most Influential People by the Time Magazine. Her work conveys a strong message about the issues that she believes require to be addressed. She is endowed with a deep social commitment. She is a crusader and her literary works loudly proclaim her social concerns. Domestic violence, gender inequality, patriarchal ideology have all been an integral part of her works. Kambili Achike, a fifteen year old girl is a narrator of the novel. She stays with her father Eugene (Papa), mother Beatrice (Mama), elder brother Chukwuka (Jaja). The novel begins on Palm Sunday. When Jaja refuses to receive communion at church, his father Eugene throws his missal and breaks Beatrice’s beloved figurines out of anger. This is how the novel begins with the depiction of domestic violence.

According to Hunnicutt (2009) patriarchy is a system that focuses on gender, where men maintain power over women in a hierarchy of domination through social systems. In the novel, *Purple Hibiscus*, Eugene (Papa) controls all the family members according to his own wish and will. Our society and its institutions exhibit and reinforce patriarchal attitudes that are responsible for the gender inequalities. In the simplest form, patriarchy is the system of male domination of women. According to Allan Johnson (1997) there are main three criteria for a society to be categorized as patriarchal: societies are patriarchal if they are male-dominated (men fill positions of authority), male-identified (ideas about what is good/preferable are associated with norms of masculinity), and male-centered (attention is focused on men and their actions). Patriarchy does exist in many parts of the world, where women are subordinates to men. It’s true to some extent that the position of women has changed in the last century, but in reality, we can still find gender discrimination and the people supporting it on the name of patriarchy.

There are many people even today who are staunch supporters of patriarchy. Gender inequality is often being ignored in everyday life. Johnson (1997) rightly argues that one of the



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Website: [www.scmmamgaon.com](http://www.scmmamgaon.com)

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Contemporary Approaches and application

Year of Publication  
March 2020

Name of Publisher  
Aadhar International Publication nagpur

(S.JIF) Impact Factor-7.675

ISSN-2278-9308

# *B.Aadhar*

Peer-Reviewed & Refreed Indexed

Multidisciplinary International Research Journal

**March -2021**

ISSUE No- CCLXXVIII (278) B

'CONTEMPORARY APPROACHES AND APPLICATIONS IN  
PHYSICAL EDUCATION & SPORTS SCIENCES'



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Director  
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**Editors**

**Dr. Vijay Dhote and Dr. A P Joshi**

**The Journal is indexed in:**

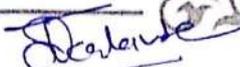
**Scientific Journal Impact Factor (SJIF)**

**Cosmos Impact Factor (CIF)**

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**REFLECTION ON SPORTS NUTRITION: NOURISHING HEALTH  
AND EXERCISE**

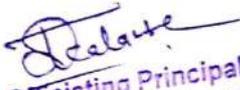
Dr. Ajay Atmaram Moon  
S. Chandra Mahila Mahavidyalaya Amgaon, Dist. Gondia (M.S.)

**Abstract**

Nutrition assumes a fundamental part on sports execution. Following a sufficient nourishment design decides winning the gold decoration or coming up short in the endeavor. That is the reason it is ordinarily alluded to as "undetachable preparing." However, in regards to food and execution, it isn't just eluded to proficient competitors. These days, an enormous number of novice competitors perform every day active work both casually and semiprofessionally. That populace likewise looks to accomplish an improvement in their own brands, which can be arrived at following appropriate healthful rules. In competitor populace, supplement prerequisites are augmented contrasted and non-competitor populace. In this way, it is fundamental for complete a nourishing methodology adjusted to the competitor and instructional meetings. What's more, different benefits of satisfactory food admission in sports are identified with changes in body organization, decrease of wounds, and prolongation of expert vocation length. The goal of this section is to decide the nourishing necessities of competitor populace that permit to accomplish their donning objectives. Wholesome systems will be tended to regarding macronutrients utilization, hydration, and timing relying upon type and force of activity.

**Introduction**

Sports nutrition is a specialization inside the field of nourishment that accomplices intimately with the investigation of the human body and exercise science. Sports nourishment

  
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Website: [www.scmmamgaon.com](http://www.scmmamgaon.com)

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## The Role of Yoga in Stress Management

Year of Publication  
March 2021

Name of Publisher  
International Publication nagpur

The Board of

red'shine  
Publication

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**DR. AJAY ATMARAM MOON**

Director of Physical Education  
S. Chandra Mahila Mahavidyalaya  
Amgaon, District Gondia (M.S.)

**In recognition of the publication in the Chapter book entitled,**

*Multidisciplinary Subjects for Research-V Vol-2, Edited by "Dr.Dilip A. Ode, Jigesh D. Chauhan,  
Dr.Birajlakshmi Ghosh, Prasanta Das & T. Brinda" His/Her Chapter's Title  
"THE ROLE OF YOGA IN STRESS MANAGEMENT"*

Published in Category of International Chapter Book  
March 2021, (First Edition)

ISBN: 979-8-718-87982-7 | (Issued by an international ISBN agency REDSHINE)

DIP: 18.10.8718879827.09 (Digital Identify Password® developed by dotRED International foundation)

[www.redshine.co.in](http://www.redshine.co.in)

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## THE ROLE OF YOGA IN STRESS MANAGEMENT

DR. AJAY ATMARAM MOON

Director of Physical Education

S. Chandra Mahila Mahavidyalaya

Amgaon, District Gondia (M.S.)

### ABSTRACT:

Yoga can have a positive effect on the parasympathetic nervous system and aid in lowering heartbeat and blood pressure. This reduces the demand of the body for oxygen. Yoga can also improve digestion, strengthen immunity, help in effective elimination of toxic wastes and also increase lung capacity. Effective use of this practice can also reduce the chances of stress culminating in anxiety and depression. Yoga is a mind-body practice that combines physical poses, controlled breathing, and meditation or relaxation. Yoga may help reduce stress, lower blood pressure and lower your heart rate. And almost anyone can do it. In an age of a highly dynamic and competitive world, man is exposed to all kinds of stressors that can affect him in all realms of life. Stress can affect one's health, work performance, social life, and the relationship with family members. The stress response is a complex emotion that produces physiological changes to prepare us for fight-or-flight, to defend ourselves from the threat or flee from it. Eminent behavioral scientist Stephen Robbins defines stress as that which arises from an opportunity, demand, constraint, threat, or challenge, when the outcomes of the event are important and uncertain. Yoga is considered one of many types of complementary and integrative medicine approaches. Yoga brings together physical and mental disciplines that may help you achieve peacefulness of body and mind. This can help you relax and manage stress and anxiety. Numerous studies have shown yoga to be effective in the management of stress, and yoga is increasingly accepted in the Western world. Patients of all ages, as well as doctors themselves, can manage stress through the practice of yoga.

**Keywords:** Yoga, Stress, Anxiety, Depression, Pranayam, Meditation.

### INTRODUCTION

One of the studies quoted that stress-related disorders evolve gradually through four recognizable stages. First, psychological changes such as anxiety, irritability, and insomnia arise, due to over-stimulation of the sympathetic nervous system. In the second stage symptoms such as high blood pressure, elevated heart rate, and increased intestinal motility surface. In the third stage, a more profound physical or biochemical imbalance sets in, while in the final fourth stage, irreversible symptoms that often require surgical or long-term management appear. Increased sympathetic activation and the release of stress hormones, including adrenaline, lead to increases in heart rate, blood pressure, breathing, body temperature, and muscle tension. In contrast, the relaxation response has been proposed as an antidote to stress; relaxation decreases heart rate, breathing, body temperature, and muscle tension.

Similar to stress in the workplace, college students are also often impacted by stress. Academic stress can result from many different imperative stressors, such as final grades, term papers, examinations, and excessive homework. Stress has exhibited a negative correlation with cognitive performance, thus negatively impacting academic performance.

Rapidly emerging in the Western world as a discipline for integrating the mind and body into union and harmony, when adopted as a way of life, yoga improves physical, mental, intellectual, and spiritual health. Yoga offers an effective method of managing and reducing stress, anxiety, and depression, and numerous studies demonstrate the efficacy of yoga on mood-related disorders. Currently, treatment for anxiety and depression involves mostly psychological and pharmacological interventions; however, mind-body interventions are becoming increasingly popular as a means to



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Website: [www.scmmamgaon.com](http://www.scmmamgaon.com)

6

Knowledge romances

Year of Publication  
june 2020

Name of Publisher  
Research Journal Publication Nagpur

ISSN 2231-1629

# Knowledge Resonance

A Half Yearly National Peer Reviewed Research Journal



Vol 9

No.1

Jan- June 2020



**Research Journal Publication Committee**  
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## Women Entrepreneurship In India: Challenges And Opportunities

Dr. Trishma S. Kalambe

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### Abstract

Women Entrepreneurship is an important phenomenon, since there is the constant need to utilize the skill of entrepreneurship among women for economic development and women empowerment. This paper touched upon the areas of meaning and definition of entrepreneurship, concept of women entrepreneurs in India, problems of women entrepreneurs, types of women entrepreneurs and opportunity recognition in development arena. Also it highlights on the dynamic need and career option through entrepreneurship, youth enterprise and entrepreneurship development in India. Entrepreneurship training through different institutions in India, development of entrepreneurship in India, entrepreneurial opportunities in future is discussed in this paper. This paper suggest measures to improve the entrepreneurship and in particular on women entrepreneurship. In the process of empowerment, women need to realize their strength, weakness, opportunities and threats and move forward to come out their own potential in order to achieve their goals through self-development. Women entrepreneurs must have an intention to fulfill their dreams and it must be transferred into an idea enterprise. This paper focus towards the problems and opportunities of women entrepreneurs in India.

**Keywords:** Entrepreneurship, Economic Development Entrepreneurship, Women entrepreneur, Empowerment, Problems, opportunities, Challenges, Self-Fulfillment

### Introduction

Women owned businesses are highly increasing in the economies of almost all countries. The hidden entrepreneurial potentials of women have gradually been changing with the growing sensitivity to the role and economic status in the society. Skill, knowledge and adaptability in business are the main reasons for women to emerge into business ventures. Women Entrepreneur is a person who accepts challenging role to meet her personal needs and become economically independent. A strong desire to do something positive is an inbuilt quality of entrepreneurial women, who is capable of contributing values in both family and social life. Today women are aware of their own traits, rights and also the work situations. Women Entrepreneurs are having confidence to initiate, organize and operate a business enterprise. This paper highlights the problems and opportunities of women entrepreneurs in India.

Nearly half of the Indian populations comprise of women. But, their participation in the economic development of the nation is lower as compared to men; this is because of the fact that women in this country are restraints by the age old cultural and religious dogmas, to take an active part in economic development of the country increased recently, this is because of the increasing level of women education, economic need of the women, unemployment problem and their own personal ambitions. The women Entrepreneurs should shift their attention from depending on others. They should train



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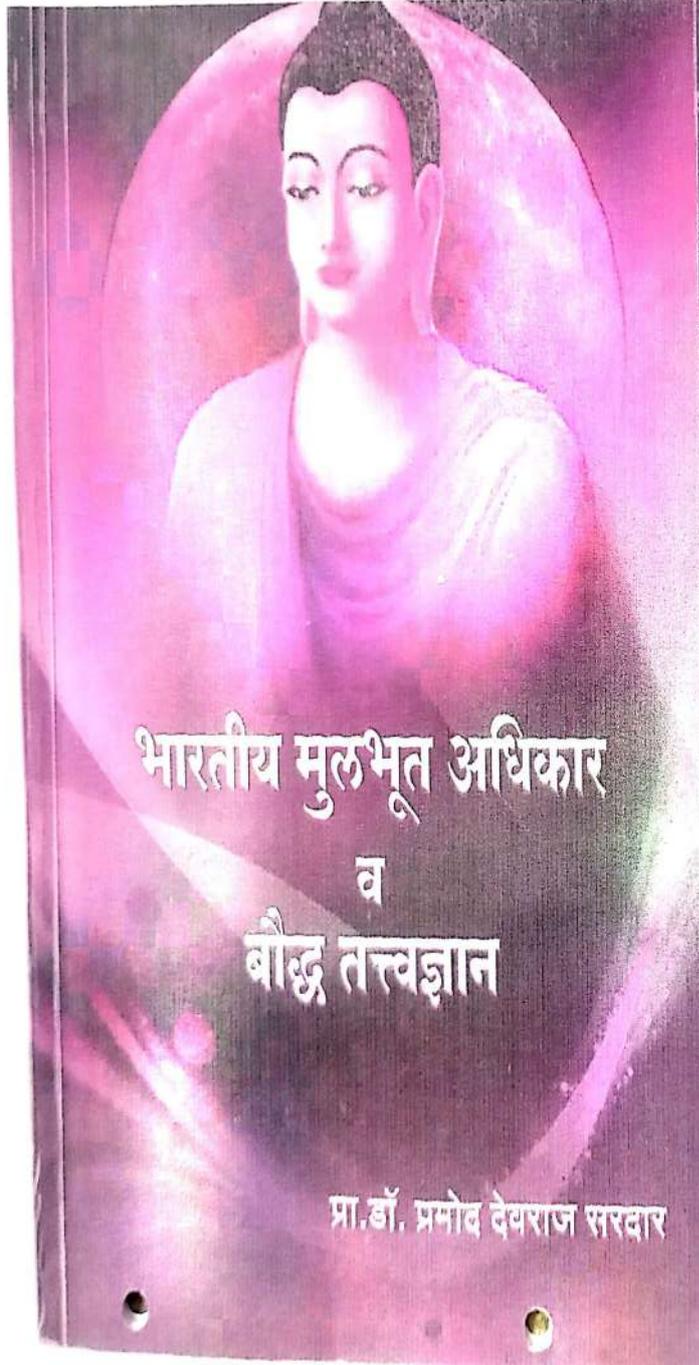
Website: [www.scmmamgaon.com](http://www.scmmamgaon.com)

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Bhartia Mulbhut Aadhar

Year of Publication  
june 2020

Name of Publisher  
BSP Book Publication Nagpur



*S. Chandra*  
Official Principal  
S. Chandra Mahila Mahavidyalaya  
Amgaon.



**BSPK BOOK PUBLISHING COMPANY**  
NAGPUR - MUMBAI - KOLKATTA - DELHI  
Contact : 9420397095



978-93-84198-72-5

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Website: [www.scmmamgaon.com](http://www.scmmamgaon.com)

1

Diksha Bhumi Gourv Granth

Year of Publication

Name of Publisher  
BSP Book Publication Nagpur

आमंत्रिक क्षितिजावर प्रथमच ऐतिहासिक वास्तुवै प्रकाशित झालेला...

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वर्ग व वर्णव्यवस्थेविरुद्ध महासंग्राम  
इथल्या शोषितांना सोबत घेऊन  
केलास जगाचा एकेक प्रांत काबिज  
माओ, मार्क्स, सॅक्रिटिस, आईनस्टाईन  
चार्वाक, बुद्ध, कबीर, फुले, शाहू, आंबेडकर होऊन  
तूच लढलीस समता, क्रांतीचा लढा  
स्वातंत्र्य, समता, बंधुत्वासाठी  
एका नव्या भवितव्याला आकार देणारी क्रांती होऊन”  
उपसंहार :

दीक्षाभूमीचा आदर्श जगातील प्रत्येक व्यक्तीने आपल्या व्यक्तिगत व सार्वजनिक जीवनात अंगिकारावा असे तिचे रूप आहे. धर्म, जात, वर्ण, वंश, प्रांत विरहित समाजनिर्मितीचे एक महत्त्वाचे केंद्र म्हणून दीक्षाभूमीकडे पाहणे गरजेचे आहे. समतामूलक विश्वनिर्मितीसाठी मूलभूत ठेवा म्हणून दीक्षाभूमी आज उभी आहे. या दीक्षाभूमीवर येणारा प्रत्येकजण माणूस होतो. माणसातील सर्वकष जाणिव विकसित होतात. नव्या माणसाचा उदय याच स्थळी होतो. समताधिष्ठित विश्वनिर्मितीसाठी बुद्ध, फुले, शाहू, आंबेडकरांचे विचार आजच्या काळात फलदायी ठरणारे आहेत. आज दीक्षाभूमी या महापुरुषांचे विचार आपल्या खांद्यावर घेऊन अखिल मानवजातीच्या कल्याणाची धुरा वाहत आहे.

“जीवनाचं अन् जगण्याचं तत्त्वज्ञान सांगणारी तू एक तत्त्वभूमी  
समतेची पाऊलवाट दाखविणारी तू एक समताभूमी  
जागतिक अस्मितेची तू एक ऊर्जाभूमी  
अन्यायाला वाचा अन् वंचितालाही वाचा फोडणारी  
तू एक संघर्षभूमी”  
संदर्भ सूची :-

१. रावसाहेब कसबे : 'आंबेडकर आणि मार्क्स' सुगावा प्रकाशन, पुणे, द्वि. आ. २००६, पृ. १९५
२. डॉ. बाबासाहेब आंबेडकर लेखन आणि भाषणे खंड १८, भाग ३, पृ. १५८
३. बापू इलमकर (संपा.) : कविता दीक्षाभूमीच्या, 'बोधी' सम्यक प्रकाशन, गोंदिया, २००६, पृ. १४
४. तत्रैव, पृ. ४९

## दीक्षाभूमी : एक धार्मिक चळवळीचे केंद्र, एक ऐतिहासिक अध्ययन

■ सहा.प्रा. प्रमोद देवराज सरदार

“शांत कुरणात उद्रेकणारा ज्वालामुखी या क्रांतीपेक्षा महान नाही. नव्या खंडाचे आद्य रेखांकन करण्यासाठी महासागराच्या खोल तळातून वर आलेली कोणतीही प्रचंड पर्वतराई यापलिकडच्या भविष्यात डोकावत नाही, कारण हा तर मानवाच्या हृदयातुन उफाळणारा लाव्हा रस आहे. हा पर्वत शिखराचा प्रचंड उद्रेक आहे. त्यावरून वाहणारे निझर दूर भविष्यातील पिढ्यांचे पोषण करणार आहेत, हा नव्या प्राणिमात्रांचा कच्चा अराखडा आहे.

समतेचा संदेश फैलावणारी अशी ती.....”

संकलन : सौ. जयश्री प्रमोद सरदार

भारतामधील नागपूर शहरी १४ आक्टोबर १९५६ ला सकाळी ४ लक्ष स्त्री-पुरुषांनी आपल्या वर्षानुवर्षे चालत आलेल्या गुलामगिरिकडे समुहाने पाठ फिरविली विषम, वर्गवारी, कुर पध्दतीचा त्याग केला. काही काळातच लाखो लोकांनी त्यांचे अनुकरण केले त्यामुळे बौध्द धम्म पुन्हा जिवंत झाला. या नव्या मायभूमीत बौध्द धम्माच्या जन्मानुळे हिन्दू धर्म हादरला. या ऐतिहासिक धर्माला जिवंत करणाऱ्या व्यक्तीचे नांव होते डॉ. भिमराव रामजी आंबेडकर भारतात २०व्या शतकात बौध्द धम्माचे पुनरागमण हे जगाला पडलेले एक महान स्वप्न आहे. विज्ञानाच्या विकासाने जागृत झालेल्या आधुनिक समाजाला स्विकारयोग्य असा बुध्दाचाच धम्म असुन, त्याच्या अभावी समाज लयास जाईल. तसेच आधुनिक जगाला स्वतःच्या विनाशापासुन वाचायचे असेल तर त्याला स्विकारणायोग्य असणाऱ्या बौध्द धम्माचाच त्याने स्विकार केला पाहिजे त्याकरिता या भारतीय लोकांचे स्वप्न पुर्ण करणारे डॉ. भिमराव रामजी आंबेडकर होत. भगवान बुध्दाच्या धम्माची उपयोगिता त्यांना लोकांना पटवुन द्यावी लागली. समाजाला एकत्रित ठेवण्यासाठी कोणत्यातरी बंधनाची आवश्यकता असते ते बंधन म्हणजे एक तर समाजाला कायदा हवा किंवा निती. यापैकी कोणतेच बंधन नसेल तर समाजाचे तुकडेतुकडे झाल्याशिवाय राहणार नाहीत. सर्व समाजात कायद्याच्या भूमिकेचे बंधन अल्प प्रमाणात निभविले जाते. समाजामधील अल्पसंख्यांकांना ताळयावर आणण्यासाठी कायद्याचा उपयोग होतो. बहुसंख्य लोकांना मात्र समाजजिवन सुरक्षित चालविण्यासाठी नितीच्या बंधनावरच अवलंबून रहावे लागेल असे डॉ. बाबासाहेब आंबेडकरांचे मत होते. धर्माच्या बाबतीत त्यांनी ज्या कसोट्या सांगितलेल्या आहेत त्यामध्ये केवळ बौध्द धम्मच कसोट्यात उतरू शकते विज्ञान व बौध्द धम्मामधील तर्क विचार हे समानार्थी शब्द आहेत.

संत महात्म्याचे दिवस आता संपलेले आहेत. भारतात आता कोणत्या नवीन धर्माचा उगम होऊ शकत नाही. जे धर्म उपलब्ध आहेत त्यांच्यामधून एका धर्माची निवड करावी. त्यामुळे जगाला कोणता धर्म तारू शकतो असेल तर तो म्हणजे भगवान बुध्दाचाच धम्म होय. अशी डॉ. बाबासाहेब आंबेडकरांना खात्री पटलेली होती. अशा धम्माच्या प्रसार-प्रचारा करणे कमीतकमी तीन गोष्टी होणे गरजेचे आहे त्यापैकी पहिली गोष्ट म्हणजे बाय



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Knowledge Management Academic Li-  
brary Present ERA

Year of Publication  
Feb 2019

Name of Publisher  
BSP Book Publication Nagpur



## Knowledge Management in Academic Library in Present Era

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In the present information and knowledge era, knowledge has become a key resource. In these days modern academic libraries are very attractive than traditional libraries. The traditional library is in agreement with the industrialized society and the modern library with, what we originally call the information and media society. The conventional function of academic libraries is to collect, process, disseminate, store and utilize information to provide service to the academic community. Whereas modern academic library use technologies while traditional libraries use manual support. Modern academic libraries attract users by providing contents in digital appearance to save their time. The concept "Knowledge Management" was started in the 20th century. It was the business world that first recognizes the meaning of knowledge in the "global economy" of the "knowledge age". In the knowledge economy age, the management refers to effectively classify, gain, develop, determine, use, store and share knowledge, to create an approach to transforming and sharing of tacit and explicit knowledge, and to raise the emergency and advance capability by utilizing the wisdom of the team. The applications of knowledge management have now increased to other organizations including government agencies, research and development departments, Universities and others. It will also examine the role of librarians/libraries in the digital and knowledge age should be in charge of knowledge management in their individual

### Process of Knowledge Creation:

#### Data:

Data is distinct pieces of information, usually formatted in a special way. Data as a general concept refers to the fact that some existing information or knowledge is represented or coded in some form suitable for better usage or processing. Data are collected from a study involving observation, experimentations or surveys.

#### Information:

Information is the process data which can be transmitted between individuals and each individual can use it according to his need. When information is entered into and stored in a computer, it is generally referred to as data. After processing (such as formatting and printing), output data can again be perceived as information.

#### Knowledge:

Information transforms into knowledge. Knowledge is organized body of information or facts or data or information. Knowledge is the proper collection of information, such that its aim is to be useful. Knowledge is a deterministic method.

#### Wisdom:

Wisdom is the ability to judge what is true or right. It is an analytical and nondeterministic, Non-probabilistic procedure. It is an exclusively human state.



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Convenient Synthesis of Some-

Year of Publication  
Dec 2017

Name of Publisher  
international Publication Nagpur

CONVENIENT SYNTHESIS OF SOME  $\alpha$ -AROYL KETENE DITHIOACETALS WITH ITS PHYSICAL STUDY

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ABSTRACT

Convenient synthesis of different  $\alpha$ - aroyl ketene dithioacetals (4) by using substituted acetophenones (1) and its acoustical study

Keywords:  $\alpha$ -aroyl ketene dithioacetals ,acetophenone, carbon disulfide, methyl iodide, sodium tert.butoxide, Pyknometer, Ubbelohde viscometer.

INTRODUCTION

The Ketene dithioacetals are versatile synthons in organic chemistry. Large amount of work, since the last decade, has given rise to new view in their chemistry. The main aim of this is having two objectives , first is to focus the new perspectives in the chemistry of functional ketene dithioacetals, and second, to provide an internal link between ketene dithioacetal groups and a different functional groups which brought out many new facts that will help in future designs. A ketene is an organic compound of the form  $R'R''C=O$ . This term is also called ethenone, the simplest ketene, where  $R'$  and  $R''$  are hydrogens. The reactions of ketene dithioacetals always governed by alkylthio functionality have been found to be useful.

Classification of ketene dithioacetals can be done on the basis of their substitution patterns at the  $\alpha$ -position of the ketene dithioacetal functionality<sup>1-3</sup>. For instance,  $\alpha$ -oxo ketene dithioacetals, which bear a carbonyl group at the  $\alpha$ -C atom, are versatile intermediates in organic synthesis with diverse applications, especially serving as 1,3-electrophilic three-carbon synthones have been reported<sup>4-7</sup>. Based on the structural features, the  $\alpha$ -C of ketene dithioacetals is reactive towards electrophiles a useful tool for the building of diverse ketene dithioacetal scaffolds and other useful building blocks<sup>8-9</sup>. These arylketones are well known for their use as a construction blocks for the synthesis of various pharmacologically important compounds<sup>10-11</sup>. Functionalized  $\alpha$ -aminated-diarylketones were used as an intermediate for synthesis of various natural products and biologically useful compound. As these  $\alpha$ -aroylketene dithioacetals are useful three carbon synthones extensively employed for the synthesis of a wide variety of heterocyclic compounds and also in several aromatic ring annulation reactions. These are  $\alpha,\beta$ -unsaturated carbonyl compounds with two electron-donating alkyl sulfanyl groups on one end and an electron-withdrawing aroyl group at the other end of the double bond, i.e., they are "push-pull" alkenes. Depending on the nucleophile and the reaction conditions either 1,2- or 1,4-nucleophilic additions on are possible<sup>12-13</sup>.

Since alkylsulfanyl groups are good leaving groups, subsequent to the attack of a nucleophile, one of the alkylsulfanyl groups of the intermediate leave to regenerate the conjugated system. Being polarized alkenes these also react with bi-functional molecules having nucleophilic and electrophilic centers to furnish cyclic compounds<sup>14-15</sup>. Generally, the reaction centers in  $\alpha$ -oxo ketene dithioacetals could be the carbonyl group, the double bond, or sulfur atoms, and deprotonation can occur at several sites, which really depend upon the structure of the  $\alpha$ -oxo ketene dithioacetals<sup>16-17</sup>.

MATERIAL AND METHODS

IR spectra were recorded on a Shimadzu FTIR using KBr discs. <sup>1</sup>H NMR spectra were recorded in DMSO-d<sub>6</sub> at 400 MHz using TMS as an internal standard. Mass spectra were recorded on Shimadzu GC-MS using electrospray ionization technique. The elemental analysis was carried out on Flash EA-1112, 50/60 Hz, CHNS analyzer. The progress of the reaction was monitored by TLC.

GENERAL PROCEDURE

In a clean conical flask take substituted acetophenone (10 mmole) then add THF as solvent then add sod.tert.butoxide as strong base (2 mole equi.to acetophenone) stir at 00 C.then add CS<sub>2</sub> (10 mmole) at the end add CH<sub>3</sub>I (20 mmole) .Stirr this mixture strictly at 00 C for 5-8 hours and then pour mixture in ice cold water.

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