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# RESEARCH, INNOVATION, CHALLENGES & OPPORTUNITIES IN HIGHER EDUCATION

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Special Issue on 13th January, 2023

Principa Bhagwantrao Arts & Science College, Etapalli Dist, Gadehiroli

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PROF. SANDIP D. MAIND

Bhagwantrao Arts And Science College Etpalli Dist Gadchiroli

One Day International Interdisciplinary E-Conference On ROLE OF PHYSICAL ACTIVITIES, HEALTH AND FITNESS IN TODAY'S CRISIS On 16th October, 2021 @

Mahatma Jyotiba Fule Mahavidyalaya, Amravati. , Late Dattatraya Pusadkar Arts College, Nandgaon Peth, Amravati. & Narayanrao Rana Mahavidyalaya, Badnera, Amravati.

## OBESITY AND WEIGHT MANAGEMENT

## ABSTRACT

Obesity is a multi-factorial illness and its avoidance and the executives require information on the intricate associations basic it and taking on an entire framework approach that addresses obesogenic conditions inside country explicit settings. The pathophysiology behind stoutness includes a bunch of hereditary, epigenetic, physiological, and macroenvironmental factors that drive food admission and craving and increment the corpulence hazard for powerless people. Metabolically, food admission and craving are managed through mind boggling cycles and input frameworks between the cerebrum, gastrointestinal framework, fat and endocrine tissues that expect to keep up with body weight and energy homeostasis but on the other hand are receptive to ecological prompts that might trigger overconsumption of food past homeostatic requirements. Under confined caloric admission conditions like eating less junk food, these cycles inspire compensatory metabolic systems that advance energy admission and weight recapture, presenting extraordinary difficulties to slim down adherence and weight reduction endeavors. To moderate these reactions and upgrade diet adherence and weight reduction, diverse dietary systems have been recommended in the writing dependent on their differential consequences for satiety and digestion. In this survey article, we offer an outline of the writing on heftiness and its hidden obsessive instruments, and we present a proof based similar examination of the impacts of various famous dietary procedures on weight reduction, metabolic reactions and diet adherence in corpulence.

## Introduction

Weight control is a term used to talk about overseeing and keeping a solid body weight. Having a sound body weight can mean various things for various individuals. The conventional way this weight is determined is with the weight file (BMI). Your BMI utilizes your tallness and weight to sort out your ideal weight territory. This number can change, however regularly, you are considered large if your BMI is more than 30. Your midsection line can likewise be an indication of corpulence. For a lady, a solid midriff estimation should fall under 35 inches. For a man, it ought to be under 40 inches. This estimation is called your midriff outline.

When discussing midriff periphery, it's likewise nice to talk about body shapes. Individuals have all unique body shapes. Some are an hourglass, with shoulders and hips around a similar size yet a more modest midriff. Some are pear-molded, with more modest estimations on the top and bigger on the base. In the event that you have an apple-shape - likewise nicknamed 'potbelly,' 'spare tire' or 'overhang' - you |

convey more fat in and around your stomach organs. Having this additional fat in your mid-region can expand your danger of numerous genuine ailments that are connected to stoutness.

Corpulence happens when your calorie admission is higher than the measure of energy you consume off every day. Think about the food you eat as fuel. This fuel is intended to control you and as you move consistently, you consume off this fuel. Nonetheless, on the off chance that you take in an excess of fuel, it isn't scorched off. This simply sits in your body, not filling its need.

There can be many justifications for why weight acquire occurs, and regularly it's more than each reason in turn. A portion of the variables that can add to weight control issues include:

Environmental factors: Lifestyle practices, similar to what you eat and how dynamic you are on a normal day, can affect your weight.

Psychological factors: Eating can be connected to your feelings. We eat to commend something great and we eat to lament something miserable. The

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Vol-47, Issue-2, No.10, April-June : 2023 (UGC Care Journal) REALTH INJURIES WHILE SPORTS PERFORMANCES: HEALTH CARE AND

WELLNESS

Prof. Sandip D. Maind, Bhagwantrao Arts and Science College, Etpalli Dist Gadehiroli,

## ABSTRACT

The fitness zone itself is changing. For example, a few fitness structures are greater orientated Flapally to the wishes of negative humans, deliver extra interest to selling fitness all through the lifespan, redress inequities in fitness status, display heightened challenge for quality, degree overall performance and try to shut the space in studies ability among advanced and growing nations.

Physical hobby or exercising can enhance your fitness and decrease the danger of growing mamerous sicknesses like kind 2 diabetes, most cancers and cardiovascular disease. Physical hobby and exercising will have instantaneously and long-time period fitness benefits. Most importantly, normal hobby can enhance your pleasant of lifestyles. Being wholesome have to be a part of your universal life-style. Living a wholesome life-style can assist save you persistent sicknesses and longtime period ailments. Feeling suitable approximately your self and looking after your fitness are critical on your shallowness and self-image. Maintain a wholesome life-style with the aid of using doing what's proper on your body. People who're bodily energetic and at a wholesome weight stay approximately seven years longer than folks who aren't energetic and are obese. And the critical element is that the ones more years are normally more healthy years! Staying energetic allows put off or save you persistent ailments and sicknesses related to aging.

KEYWORDS: Physical, exercise, fitness, sickness, lifestyle

## INTRODUCTION

Principle I of the Rio Declaration on Environment and Development states that "people are at the center of sustainable development issues. They have the right to a healthy and productive life in harmony with nature." Dreams of sustainable healing cannot be realized if there are too many debilitating diseases and the health of the population cannot be maintained without ecologically sustainable development. This document provides an overview of progress in agreed areas related to Chapter Six of Agenda 21, highlights areas where progress has been limited, and highlights issues and trends that deserve attention. Health issues related to different aspects of sustainable improvement are addressed in the following thematic assessment reviews of the action plan.

## The Steady Growth of Global Health Care

General lifestyle expectations have risen for more than a decade, infant and young child mortality has declined, and the proportion of underweight and stunted children has declined. In developing countries, the proportion of people whose life expectancy is less than 60 years due to lifestyle has decreased from 38% to 19% between 1990 and 1999. The proportion of people whose water supply has not improved has decreased. From 21 centimeters to 18 centimeters in the last decade. Many infectious diseases have decreased thanks to advances in hygiene, nutrition, capsules and vaccines. Significant progress has been made in eradicating or eradicating many major infectious diseases. For example, the annual incidence of polio decreased from about 350,000 cases in 1988 (the start of the Global Polio Eradication Initiative) to 20,000 in 1999. The number of countries infected with polio decreased from 100 to 25, to -30 during this period; the most recently infected countries are concentrated in parts of sub-Saharan Africa and the Indian subcontinent — especially places where immunization is low, sanitation is terrible or war is common. Sport has been significantly accelerated to achieve the goal of global polio eradication by 2005.

Steady Gains in Global Health

Over ten years, general lifestyle expectations have increased, infant and young child mortality and the proportion of underweight and stunted children have decreased. In developing countries, the proportion of people whose life expectancy is less than 60 years due to lifestyle has decreased from

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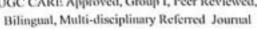
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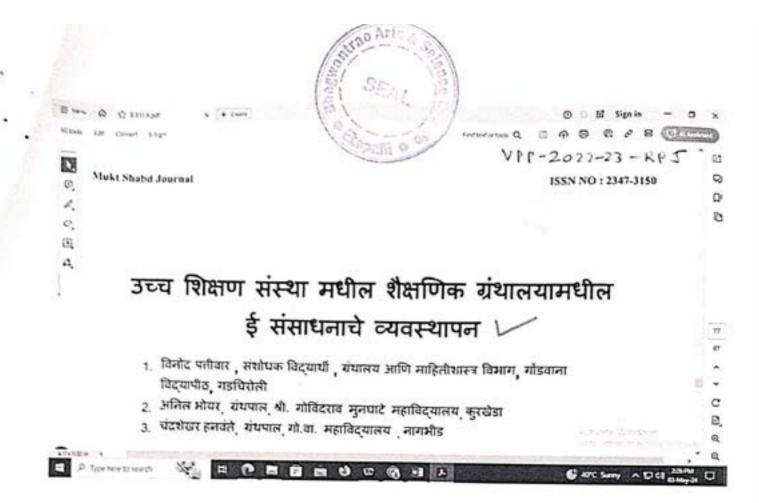
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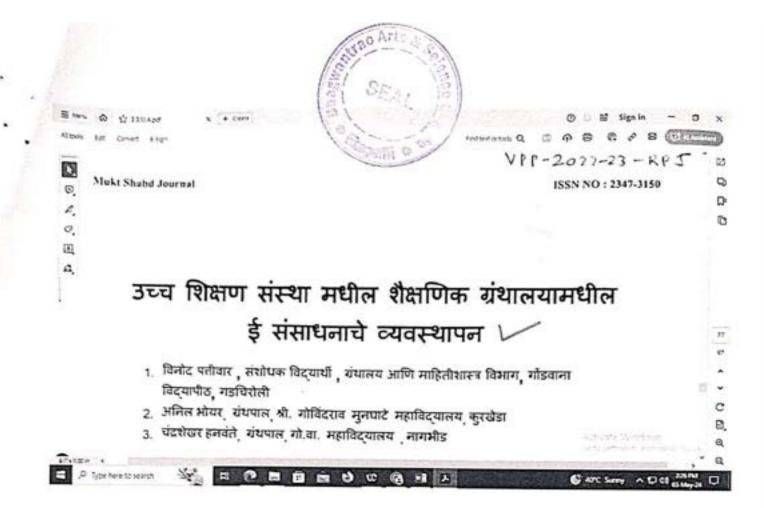






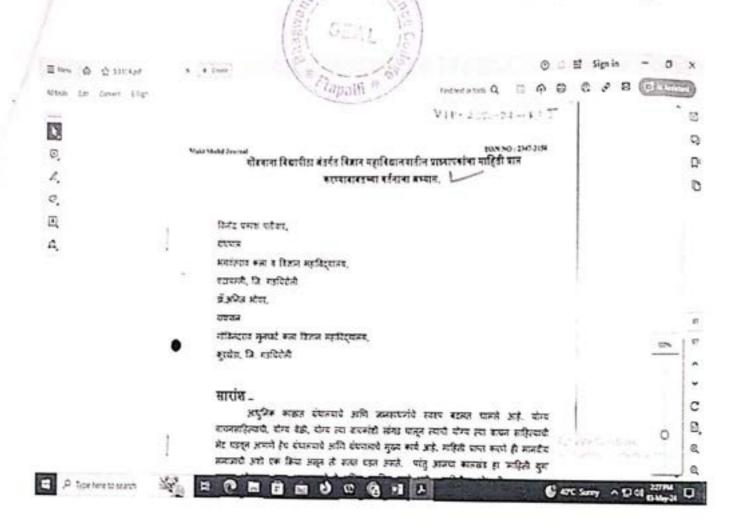
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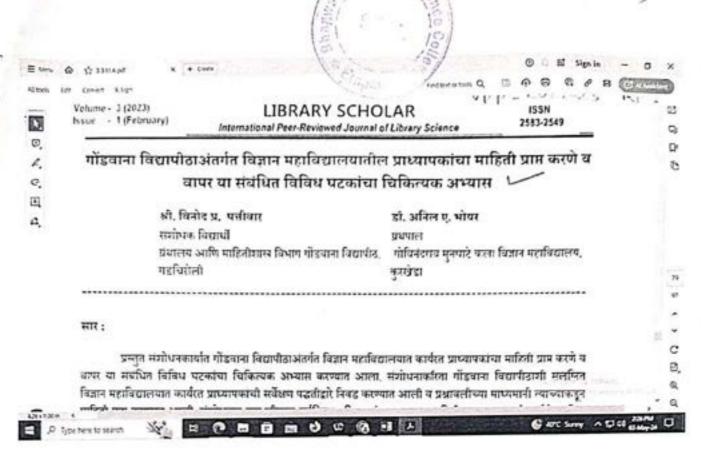
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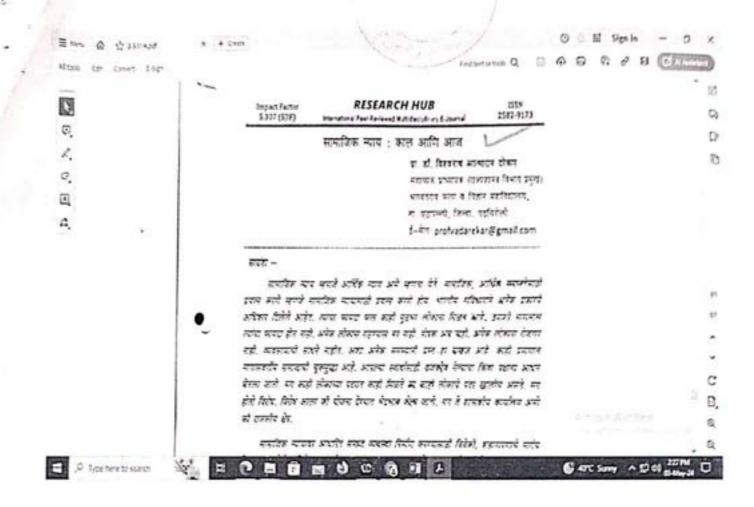
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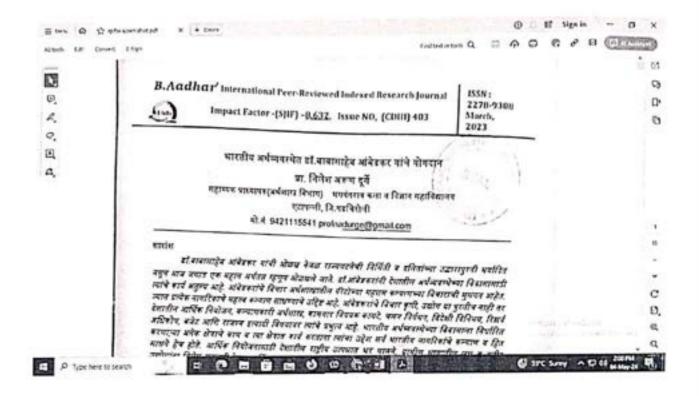
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## **JARSCT**

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 3, Issue 2, February 2023

# A Pair of Gymnospermous Ovule from the Deccan Intertrappean Series of Chhindwara District, M.P., India

## Sharadkumar P. Patil

Bhagwantrao Arts & Science College, Etapalli, Gadehiroli, Maharashtra, India patilsharadkumart@gmail.com

Abstract: This paper deals with the study of pair of gymnospermous ovule with ovuliferous scale from the Decean Intertrappean beds of Mohgaonkalan, M.P., India which is of Uppermost Cretaceous to Lower Eocene age. The complete specimen measures 1.440 to 1.620 mm in length and 0.920 to 1.080 mm in breadth. It shows single, parenchymatousovuliferous scale. On the upper surface of ovuliferous scale two orthotropous ovules are present. The integument is parenchymatous and undifferentiated. The micropylar canal 74-80 □m long and 60-65□m broad. Nucellus is free from integuments. Scerotic cells are absent. Vascular supplies are seen only in the chalazal region. The present ovule is compared with reported gymnosprmous oxule and modern gymnospermous taxa. As the specimen is not comparable with any of the living genus and reported ovule, it is kept under a separate genus Deccanoovuliteskapgatensis gen. et. sp.

Keywords: Deccan, Intertrappean, fossil, cherts, gymnosperm, ovule

## I. INTRODUCTION

This paper deals with the study of pair of gymnospermous ovule with ovuliferous scale from the Decean Intertrappean beds of Mohgaenkalan, M.P., India which is of Uppermost Cretaceous to Lower Eocene age. From the Decean Intertrappean series there are very few records of gymnospermous ovules and cones, listed as, Takliostrobusalatus (Sahni, 1931); Indostrobusbifidolepis (Sahni, 1931); Harrisostrobusintertrappea (Chitaley& Sheikh, 1973), Mohgaonstrobussahni (Prakash,1956,1962); Gymnoovulites (Shukla,1948); Gymnoovulitesshuklaii(Kate,1974); Podocarpoovulitestriwingatus (Singh, 1977): Podocarpoovulitesmohgaonensis (Upadhey, Podocarpoovuliteschitaleyi (Sheikh &Kolhe, 1982); Cupressaccoovulitesintertrappea (Mistri et al.,1985); Coniferoavulitesintertrappea (Yawle,1975) are the ovule specimens described so far. One more new gymnospermous ovule is being described here from the Deccan Intertrappean series of Mohgaonkalan, M.P., India.

## II. MATERIAL AND METHOD

The fossiliferouschertshave been collected from the Deccan Intertrappean beds of Mohgaonkalan, M.P., India. While breaking the cherts the ovule was exposed inobliquely transverse plane. After etching the specimens with hydrofluoric acid (HF), serial peel sections are taken with Cellulose Acetate peel Technique. The peels were mounted in DPX mountant and photographed. The camera lucida sketches of the slides are drawn for detailed study of ovule cut in oblique transverse plane.

## 2.1 Description

The complete specimen measures 1.440 to 1.620 mm in length and 0.920 to 1.080 mm in breadth. It shows single, parenchymatousovuliferous scale. On the upper surface of ovuliferous scale two orthotropous ovules are present. The integument is parenchymatous and undifferentiated. Nucellus is free from integuments Sceroticcells are absent vascular supplies are seen only in the chalazal region. It shows following anatomical details-

## 2.2 Ovuliferous Scale

The ovuliferous scale is singleand made up of thin walled parenchymatous cell. At the basal region it shows some thick DOI: 10.48175/568 www.ijarsct.co.in

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# Investigation of a Monocot Caryopsis from the Deccan Intertrappean Beds of Mohgaonkalan, M.P., India

Sharadkumar P. Patil

Bhagwantrao Arts & Science College, Etapalli, Godchiroli, Maharashtra, India patilsharadkumart@gmail.com

Abstract: The present paper deals with the study of a fossil unilocular, monocot caryopsis collected from the well-known locality of Mohgaonkalan, Chhindwara district, M.P., India, which is of uppermost Cretaceous to lower Eocene age. The fruit measures 2.78 - 2.89 mm in length and 2.34 - 2.45 mm in breadth. The fruit is unilocular containing single large seed with the aleuron layer inside the fruit. The pericarp measure 260 to 305 um thick and multilayered, differentiated into three zones i.e. outer, middle and inner zone. Seed is large and measures 2.00 to 2.12 X 1.89 to 2.00 mm in size. Seed coat is bitegmic in nature. Embryo is monocot type and ill preserved. Placentation is basal. Dehiscence is not seen. Vasculature is not clear. The specimen is compared with living genus of modern families and reported fossil monocot fruits as it resembles more with modern family Graminae it is kept under this family but as a separate genus Caryopseocarpondeccanensis gen. et sp. nov..

Keywords: Deccan, Intertrappean, fossil, cherts, monocot, fruit, caryopsis

## I. INTRODUCTION

The present paper deals with the study of a fossil unilocular, monocot caryopsis collected from the well-known locality of Mohgaonkalan, Chhindwara district, M.P., India, which is of uppermost Cretaceous to lower Eocene age. From the Decean Intertrappean beds many fruits have been reported, but these reported fruits large number of reports are of dicot fruits, while the reported monocot fruits are very few. Some reported monocot fruits are - - Nypahindi (Sahni& Rode, 1937). Species of Palmpearponlike Palmocarpontakliensis (Sahni et al., 1934; Sahni,1964); Palmocarponbracteatum (Shrivastva&Rao, 1934; Sahni,1934); Palmocarponsahni (Sahni& Rode, 1937); Palmocarponcompressum (Rode & Sahni, 1937); Palmocarpon insigne (Mahabale, 1950); Palmocarponmohgaoense (Prakash, 1955); Palmocarponindicum (Prakash, 1960); Palmocarponsulcatum (Prakash, 1960b); Palmocarponsplendinium (Trivedi& Chandra, 1971a); Palmocarponintertrappea (Yawle,1975) &Palmocarpondeccanii (Chudiwale, 1990) , Cocussahni (Kaul, 1951), Cocusintertrappeansis (Upadhey,1979), Viracarponhexaspermum (Sahni,1944), Musa cardiosperma(Jain,1964); Amomocarponsulcatum (Rode, 1933; Sahni, 1964); Graminocarponmohgaoense (Chitaley& 1971); Kremocarponaquatica (Chitaley& Kate, 1975); Tricoccitestrigonum (Rode, 1933a); Borassoeocarponmohgaoense (Wazalwar, 1990) & Araceocarpondeccanii (Waghaye, 1995). One more fossil monocot, caryopsis is being described here from the Deccan Intertrappean beds of Mohgaonkalan, M.P., India.

## II. MATERIAL AND METHOD

The fossiliferouseherts had been collected from the Decean Intertrappean beds of Mohgaonkalan, M.P., India. While breaking the cherts the fruit was exposed in longitudinal plane. After etching the specimens with hydrofluoric acid (HF), serial peel sections are taken with Cellulose Acetate Peel Technique. The peels were mounted in DPX mountant and photographed. The camera lucida sketches of the slides are drawn for detailed study of fruit cut in longitudinal plane.

The longitudinally exposed fruit measures 2.78 - 2.89 mm in length and 2.34 - 2.45 mm in breadth. The fruit is unilocular containing single large seed with the aleuron layer inside the fruit. The pericarp measure 260 to 305 []m Copyright to IJARSCT DOI: 10.48175/568 www.ijarsct.co.in

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## STUDY OF WATER PARAMETERS LIKE DISSOLVED OXYGEN, TOTAL HARDNESS, ALKALINITY AND CHLORIDES FROM ETAPALLI CITY OF GADCHIROLI DISTRICT

Rajiv B Dange Department of Chemistry
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Judes Forest - Disacted Coppes, Total Hastistee, Allesberg, Chicales, Edvaries.

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distributed assumes, erc. (Frankey, et al., 2004) Abulasty is used to assume facilities of wild end bown. Distribution on proposable for abulasty in fields rejuctly of warr surper how a series the and waters the firstern or it by all rapes is due to a from and said and \$100 from promption. To message attacked, temperal between values of arms and with polars sample upon the pH range 4 to 5. The Fanders is devided are then agree of electory depletions, be advance, and and whitely. Now the Carlo is extended by contact of water by energ phenolyhitation indicates upolycitying being pit of \$1. Transply the Feed ellectory is reliables to common water using mental energy substitute upon each point harmag phi of \$5. The interior electrony is calculated from difference between stand alkalanay and conference alkanate. The legion processings of fixed alkalanate, the lower as red posses, of

Generally chieving present in all naturally occurring sources of water. The desired land of chicolic ion in want in 210 mg I grounty (E. Strine 1991). The chievine is fived in nature in set from the Soften stierule (SaCl), Farmous Chievin (SCI) and Calcum Chievide (CaCC): The use of NaCl in used to produce causing unda as andway, CaCC in used as on Coveral and ECI in used bendynx The oblivate matter very stall rule in securic activity in boson. Chievate are in boson budy a taken in the first of set obtain) is makes electrolysic believes and helps in working of history and dietary species. If 1995's observe at taken by body then mostly 1975 as end in series. He commend in second drops and security the case the advertised by immune treely elloperatures of National Health and Wellies (1981) Houses, if water contain children level higher than 2.5 g for then control hyperconsent elimbora, 2011). Due to elateral confusion y corping expensy of classic ann a product conteau at most population of speakages, 1870;

### II. MATERIAL AND METHODS.

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2.2 Total Burdness: The und burdness is address of temporary bardness and personnel burdness. The end bard By this interest partial, In this perhaps when Franciscone block-II added in water sample, a turns to and complex which an Marine with EDFA gives that robus. Note through the studing and after calculation until berlieve of water. The characterists of mate according to es as for Soft Water Business is less than 36 mg/L as CaCO<sub>1</sub>, For Minimally Hard Water Sandams is between 30-150 mg L as CaCO<sub>2</sub> , for thad Water facilities is littlesses 150 MH mg L as CaCO<sub>2</sub> , for Very Hard Water facilities is greater than HIS WAY T. an CACHAGAMELA, THESE

1.3 Alkeholy: The elizably is calculated by invariant of water sample bering  $P^{\mu}$  in a flow is  $\theta$  with subject \$ 50%. After chicking with sulphorie acid more down the cowing and extender alkalines.

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## BE RESULTS AND DISCUSSION

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A3 Diseased Degree (DO): The in measured by using Model A40 DO:01 of Bill and Wilks. The Disserved Oxygen targe is from 4.5mg/hrs 5.5mg/t.

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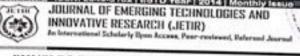
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## PHYSICOCHEMICAL PARAMETERS OF WATER SAMPLES IN ETAPALLI CITY OF GADCHIROLI DISTRICT OF MAHARASHTRA.

Rajiv Hhujangrao Dange Department of Chancety

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Abstract. The present study is illustrated on the physical-benegad proposition pack on Transportation, plf. Tacketer. I and Dissabled basis and Conductoring of Season and Proposition and Season and Proposition and Season and Season

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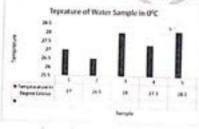
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## EFFECT OF SOIL PH ON THE FUNGAL COMMUNITY AT BHAMRAGAD TALUKA, DISTRICT GADCHEROLI

Radiv B. Burgo ur Ants di Science Cullege Enquale Din Gashtonsi

One of the most influential factors afferting the microbial community is said is piff. pH strongly influences about factors, such as carbon availability, national availability, and the unballity of metals, in soldinos, and pill may owated block factors, such as the bear men receposition of furgi and bucteria, in both forest and agricultural seils.

Key Wards: Furgi, soil plf.

An inherent problem in studying soil pill effects in its varied influence on multiple parasi-Experimentally manipulating the pH of a sed may much in changes in second factors that are hard to separate." Conversely, comparing pill of different patient seels introduces continualing factors, frequently unidentifable, derived from differences in sed type and management regimes that also vary between soils. The largest effect of pill above pill 4.5 was on fimpal and becomed growth, and there were opposing pill offices. I Most commonly recontrol press of limp in sel see, Alemeric Aperplie, Cadaporius, Cadalogorum Borona. Chatterian, Fearum, Moor, Periodian, Terrollian, Technisma, Bioqua, Giocladon, Harda, Pyrisum, etc. This resulted in a 30-fold increase in the relative importance of large, the influence of pill on fangal growth has been investigated previously. Banth and American reported that treatment of forest seils with line and act, which resulted in pH changes from about pH 4 to 7 and increased fampal growth about fivefeld a Similar study that included 100 different soils sample from areas Ettspell lead som has also been reported.  $^{1/2}$ 

However, one landation of these observational studies is that it is impossible to determine whether the ics are structured directly or indirectly by pH. In other words, we do not know whether pH itself in the factor shaping those communities, or whether gill may be indirectly selected to the observed community changes through many environmental factors (the example, marriest availability, request C characteristics, soil revisions regime and represent types, which often ou-vary with changes in soil pit." Similarly, we do not know whether soil

ATTRIPERSON | Journal of Emerging Technologies and Innovative Research (JETR) state, striking | 528

who are received with the community composition of faugi, another dominant microtical group in soil." Char Sportions for this study wase whoever the effect of soil pH on the furgal community session the 19th-ordinance of the Estapali dist. Galcherolii.

## Material and Methods

Soil sample were collected from scress the Shammagad. Tabika of District Guiddirelt to investigate the discoinfluence of soil giff on the abundance, tenements diversity and composition of the major soil microbial fangi. We sumpled along the first 190s, of the step taking 5 cm distractor, 0-25cm depth coves at each sampling position along the gradient. The gradient was sampled every 15m between 6-40 m, and every 5m between 40 and 12m and, then every 10to between the final 120-180m of the gradient. Two fifty soil samples were sixed (2.feam) in the taboratory, removing apparent mere and seriors, and pH was canazard using an electronic pH meter Result and Discussion:

Spanning a pill range from 4 to 8, showed that there was an increase in bacterial growth with decreased found growth was front as higher pH. Thus, suggesting decrease in Empil dominators of decomposition at higher and pH. The close comulation between the declines in fampel proved as and pH declines requires explanation. One posential explanation could be independent physiological limitations by pH of the separate decomposer groups i.e., law hydropen ion concentrations limit flaged growth. Recent study has demonstrated that changes in soil microbial communities across space are often strongly correlated with differences in red chemistry. In particular, it has been shown that the composition, and in some cases diversity, of soil fangal communities in advan satisfy completed with soil pld. However, butterial and fangal growth revealed dresses differences in the activity of these microbial decorposer communities. In contrast, fragall growth was maximal at pill 4.5, and documend by a factor of more than 5 howard the high pit each.\*

SascNo.	pitt	Son No.	plf	San No.	pH	Sim.No.	plii	San No.	pl
1	7.8	5	7.5	1	7	D	6	17	2)
1	43		6	10 0	3	14	13	18	7.6
3	4.5	2	6.2	11	7.1	15	7.8	19	6
4	8.1	8	8.6	12	7.5	16	7.5	29	5

Throughout the Etrapeli rabiles the measured pH of the soil sample found to be lying in between 4.3 to 8.7. The value of observed and pill is given in table below. The mainly all and sample shows basic in nature and some soil sample choses neutral pill. The forgal growth in this range of pill hardly survives. Out of the collected sample the sample collected from river area shows 4.3 pH. This indicates that there is better survival of fungi. From above diagram is clearly shown that the majority of the sample having pH is greater than 6 pH.

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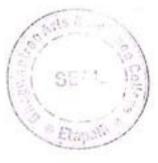
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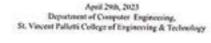


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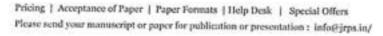
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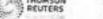






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Scope and Significance of Ecology: A review

Dr. Shruti Dipak Gubbawar, Assistant professor

Bhagwantrao arts and science college Etapalli,

Dist.- Gadchiroli, Maharashtra

## Abstract

Once it was determined that rotifers could live for months without water, the current scientific study of desiccation tolerance could begin in 1702. In 1860, the debate over whether or not living things might be dried out without perish, led to the creation of a special French commission to settle the issue once and for all. Today in the year 2000, we know that some groups of animals and many species of plants are able to withstand desiccation while they are actively reproducing in the adult stage of their life cycles. There are a wide variety of lichens and bryophytes here, along with some ferns and a very few flowering plants, but no trees or gymnosperms. When plants are dried, they can withstand temperatures ranging from 272 to 100 C and can live without water for more than ten years without significant loss of vitality. Plants that can withstand dry conditions are widespread over the globe, although they are most common in arid regions. These patterns raise two major questions. First, how can plants manage to survive periods of drought? The question then arises as to why desiccation-resistant plants are not more prevalent in the natural world. In light of recent findings from molecular and biochemical research, it is becoming clear that tolerance may be achieved via a variety of processes, many of which include shielding against oxidants and the re-configuration of macromolecules that occurs during dehydration. Possible causes for the limited biological range of desiccation-tolerant plants include the plants' intrinsic "trade-offs between desiccation tolerance and growth rate and their inability to sustain a cumulative positive carbon balance over repeated cycles of soaking and drying.

Key-words: biodiversity, climate change, ecosystem services, education, humans dimensions. human-wildlife conflicts, pollution, protected area, tiger

Introduction

Now more than ever, the sustainable management of Earths resputation and Science systems rests on the shoulders of ecologists and others in related fields. As the world's largest populous democracy and the world's fastest-growing major economy, India has a significant influence

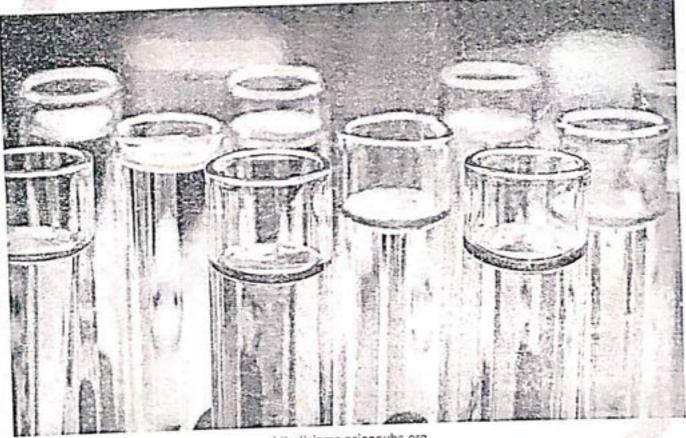
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## Innovative Methods for Synthesis of 1-Phenyl Naphthalene Lignan- A Green Chemistry Approach

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1.2Sri Satya Sai University of Technology and Medical Sciences Schore, Bhopal, Madhya Pradesh, India

Shai Salama S. Bartana S.

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Maharashtra, India

<sup>5</sup>Bhagwantrao Arts and Science College, Etapalli, Affiliated to Gondwana University, Gadchiroli Maharashtra, India

ORCID:0000-0001-7152-2234/3ORCID: 0000-0003-3463-4768

## ABSTRACT

To generalize the methods for Synthesis of  $\alpha$ -arylidene  $\beta$ -benzoyl propionic acid has been carried out to finalized product such as 1-phenyl naphthalene lignan. To extend the scope of Perkin reaction and cleavage of  $\alpha$ -arylidene  $\gamma$ -phenyl  $\delta$ - $\beta$ - $\gamma$ -butenolide are prepared as  $\beta$ -benzoyl propionic acid and aryl aldehydes underwent perkin condensation at  $\alpha$ -methylene to gives  $\alpha$ -Arylidene  $\gamma$ -phenyl  $\delta$ - $\beta$ - $\gamma$ -butenolide which on cleavage gives  $\alpha$ -arylidene  $\beta$ -benzoyl propionic acid under two experimental methods are conventional and Ultrasonication method. We carried out the reactions of  $\beta$ -BPA and with series of aldehyde (anisaldehyde, varatradehyde, salicaldehyde, vanillin and benzaldehyde) to obtain the corresponding butenolides on cleavage with alcoholic sodium carbonate gives  $\alpha$ -Arylidene  $\beta$ -benzoyl propionic acid The entire cleavage products have been characterized by their FTIR, H<sup>1</sup>NMR, and mass spectroscopy.

Keywords: β-benzoyl propionic acid,  $\alpha$ -arylidene  $\beta$ -benzoyl propionic acid,  $\alpha$ -arylidene  $\gamma$ -phenyl  $\delta$ - $\beta$ - $\gamma$ -butenolide, Ultrasonication method, 1-Phenyl naphthalene.

## 1. INTRODUCTION

The Friedel-Crafts reactions are a set of reactions developed by Charles Friedel and James Crafts in 1877 to attach substituent's to an aromatic ring[1]. There are two main types of Friedel-Crafts reactions are alkylation and acylation reactions. Both proceed by electrophilic aromatic substitution reactions. The Friedel-Crafts Alkylation may give poly alkylated products, so the Friedel-Crafts Acylation is a valuable alternative. The acylated products may easily be converted to the corresponding alkanes followed by Clemmensen Reduction or Wolff-Kishner Reduction. Friedel-Crafts acylation is the acylation of aromatic rings with a succinic anhydride using a strong Lewis acid catalyst. Friedel-Crafts acylation is also possible with acid chlorides and cyclic anhydrides [2]. Reaction conditions are similar to the Friedel-Crafts alkylation mentioned above.

Synthesis of 1-phenyl naphthalene has been subject of great interest, as it is an important intermediate for synthesis of cyclolignans and also for physiological properties. Various attempts have been made for the synthesis of 1-phenyl naphthalene and the different types of lignans by large number of workers but only few were successful in synthesizing the naturally occurring isomers. The synthesis of aryl naphthalene lignan has been carried out by various methods, the oxidative coupling method, where aryl naphthalene was prepared by aryldihydronaphthalene in several steps including oxidation, hydrolysis, reduction, and lactonization. Pericyclic reaction method has also been used extensively for preparation of a wide variety of arylnaphthalenelignans. With the view to all reaction zeolite play an important role and increase yield however decrease their reaction time in Ultrasonication method.

The butenolides were previously reported by Borshe [3], when beta benzoyl propionic acid, aryl aldehyde, acetic anhydride and pyridine were taken 250 ml beaker. As we performed synthesis of pericabonyllignans lactone, we needed two step syntheses. But we also performed the synthesis of 1-phenylnaphthalene and Pericarbonyllignans by cyclization of Perkin condensation product α-arylideneβ-benzoyl propionic acid with the phosphoric acid and cone. H<sub>2</sub>SO<sub>4</sub>, Nanozeolitecan be achieved in one step.

To extend the scope of Perkin reaction and to generalize the methods for cleavage of  $\alpha$ -arylidene  $\gamma$ -phenyl  $\delta$ - $\beta$ - $\gamma$ -butenolide to Synthesis of  $\alpha$ -arylidene  $\beta$ -benzoyl propionic acid has been carried out. In present work 1-phenyl naphthalene lignan are prepared as  $\beta$ -benzoyl propionic acid and aryl aldehydes underwent perkin condensation at  $\alpha$ -methylene to gives  $\alpha$ -Arylidene  $\gamma$ -phenyl  $\delta$ - $\beta$ - $\gamma$ -butenolide which on cleavage gives  $\alpha$ -

# Phytochemical Analysis of Protein and Amino Acid Composition of Shade Dried Leaves of Some Wild and Cultivated Plant Species

S. B. Wadaskar<sup>1</sup>, V. G. Manwatkar<sup>2</sup>, D. P. Gogle<sup>3</sup>

Department of Botany, Bhagwantrao Arts and Science College, Etapalli, Dist-Gadchiroli-442704, Maharashtra; India

<sup>2</sup>Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur, Dist-Wardha-442305, Maharashtra, India

PGTD of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur-440033, Maharashtra, India

Corresponding Author Email: m11.vijju[at]gmail.com

Abstract: The present study aims to evaluate the proximate composition of proteins (Crude as well as soluble protein) and some amino acids in shade-dried leaf samples. The photosynthetic active green foliage of grasses, legumes and other plants contains in general high amounts of proteins and amino acids. Protein is a food component that has functional properties that affect the properties of food products. In the present investigationshade driedleaves samples from seven different plant species viz. Berseem (Trifolium alexandrium L.), Alysicarpus vaginalis L. var. stocksii., Atternanthera paronychivides St. Hil., Cabbage (Brassica oleracea L. var. capitata), Radish (Raphanus sativus L.), Adulsa (Adhatoda vasica Nees.), and Bauchi (Psoralia corylifolia L.) were prepared and was assessed for proteins and amino acids. The prepared sample has 6-26% crude protein and 1-14% soluble protein. The amino acids like methionine and tryptophan range from 0.171-2.262 g / 16gN.

Keywords: Protein, Amino acid, Leaves, Methionine, Tryptophan, shade drying

## 1. Introduction and Review of Literature

Green plant leaves are an excellent source of protein. The leaves of a few species mostly leafy vegetables are at present utilized by man. Phytochemical investigations have revealed diverse kinds of chemical constituents in various plants and have been enumerate as an inception of precious chemicals and some of them have been used as drugs. Abundant data demonstrated that protein is one of the most important nutrients in human and domestic animal nutrition (Altschul, 1958; Abbott, 1966; Milner, 1968).

They are particularly valuable as muscle and nerve builders, rather than as a source of energy. Protein is the most important aspect of nutrition in the human diet as it is connected with growth, maintenance and several other processes of life. The chief attribute of proteins are the presence of high nitrogen, sulphur and phosphorous content. The nutritive value of protein is explained by its digestibility as well as by the availability and amount of various essential amino acids. Amino acids are the building blocks of protein, which in turn represent the basic foundation of protoplasm.

(Proteins) (Amino acid-Tryptophan) (Amino acid-Methionine)

The proteins are the precursors in the formation of secondary metabolism molecules and these molecules were involved in cell signaling, gene expression, hormone synthesis, phosphorylation of protein and antioxidant capacity (Moran-Palacio et al.2014). The biological value of protein depends on the make-up of amino acids (Longeneker 1963). The dietary protein provides a metabolic reserve of amino acids from which new body proteins are synthesized. The consistent presence and proper composition of all the amino acids are the most important factor for the normal functioning and development of an organism. The

deterioration in health status takes place if changes occur in the composition of amino acids (Agbadi et al.2017).

It was further stated that the content of amino acids and proteins would be increased if the leaf samples were subjected to different drying methods e. g. sun and shade drying (Gladys, 2011; Omah, etal.2022). The dehydration of leaf sample can is responsible for the concentration of a fair amount of proteins and amino acids (Sonkamble and Pandhure, 2017). The dried leaf sample can improve its shelf life without significantly altering the rich nutritional benefits of the vegetable (Abioye, et al.2014), Dried leafy vegetables

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# ANALYSIS OF SOME NUTRITIONAL AND QUALITY ATTRIBUTES OF SHADE DRIED LEAVES OF SOME WILD AND CULTIVATED PLANT SPECIES

S.B. Wadaskar<sup>1</sup>, V.G. Manwatkar<sup>2\*</sup> and D.P. Gogle<sup>3</sup>

- Department of Botany, Bhagwantrao Arts and Science College, Etapalli, Dist-Gadchiroli-442704.
- Department of Botany, Vidya Vikas Arts, Commerce and Science College, Samudrapur, Dist-Wardha-442305.
  - PGTD of Botany, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur-440033
     Corresponding Author Email: m11.vijju@gmail.com

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## ABSTRACT:

The present study aimed to evaluate different nutritional and chemical compositions in shade-dried leaves samples of various plant species. No doubt fresh green leaves contain a high amount of nutritional and quality attributes. However, these fresh leafy materials are also highly perishable and after post-harvest, most of them are subject to goes waste. There are different methods of preservation among them; the shade drying method is most suitable as it retains all the nutrients and other mineral composition intact as suggested by various workers. Therefore in the present investigation shade dried leaves samples from seven different plant species which are underutilised viz. Berseem [Trifolium alexandrium L.], Alysicarpus vaginalis L. var. stocksii., Alternanthera paronychioides St. Hil., Cabbage (Brassica oleracea L. var. capitata), Radish (Raphanus satitus L.), Adulsa (Adhatoda vasica Nees.), and Bauchi (Psoralia corylifolia L.) were prepared and was assessed for various chemical composition viz. total carbohydrate, total chlorophyll, crude fat, crude fibre, total ash and acid insoluble ash. The results shows the prepared samples have 5.80% - 24.03% of total carbohydrate, 14.89 - 503.69mg/100g of total chlorophyll content, crude fat content ranges from 7.0% - 22.93%, crude fiber content ranged between 4.60% - 33.50%, total ash content was found to be 9.40% - 23.75% and acid insoluble ash content ranges from 0.43% - 4.87%.

Keywords: - Carbohydrate, Chlorophyll, Crude fat, Crude fibre, Shade drying etc.

## INTRODUCTION:

Green leaves are the chief source of micronutrients, but in the past, it was considered that the utilisation of green leafy vegetables was allocated to the sign of poverty. It was supposed that the peoples who consume it were too poor to afford meat (Gladys, 2011). Although green leafy material constitutes the main component in the diets of most of the human and animal population. It can be consumed in various ways some of them can use as raw or it can be used by cooking. Green leafy materials have a variety of health benefits for consumers, due to their proximate content of minerals, vitamins, protein, fibres, chlorophylls,

fats, carbohydrates and antioxidant compounds, etc. Their inclusion in daily diet can promote dietary diversity and reduce micronutrient deficiency (Garti, et al. 2018; 2019; Achimugu and Emmanuel, 2021). It adds flavour, taste, colour and aesthetics to the diet (Omah, et al. 2022).

Green plant leaves are prone to be more susceptible to fluctuating seasons, these are radially and abundantly available during the rainy season but there is a scarcity or less availability in the dry season. Secondly, after harvesting, they lose their moisture content very quickly, and due to this, the appetizing quality deteriorates rapidly. This rapid deterioration regults in less shelf life of 3-5 days under normal

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Bhagwantrao Arts & Science College, Etapalii Dist, Gadchiroli