



6.3.2 - Number of teachers provided with financial support to attend conferences-workshops-2022-23

Documents

Distribution letter of honorarium to faculty to attend the conference and publish research articles and Books

डॉ. गणपतराव देशमुख महाविद्यालय, सांगोला

(कला, विज्ञान, इ.सी.एस. व बी.सी.ए.)

ता. सांगोला, जि. सोलापूर, पिन - ४१३ ३०७ (महाराष्ट्र)

ऑ.: (०२१८७) २२०५०८

मो.नं.: ९८५०७९२२४४

Email : vidnyanms@yahoo.co.in

Website : www.vmsangola.org



डॉ. एस.एम. मुलाणी

एम्.ए.पीएच.डी.(भूगोल)

(पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठाशी संलग्नित)

(Third Cycle Accredited by NAAC with 'B' Grade (CGPA of 2.24))

जावक क्र. ४८३/२०२३-२४

दिनांक : १३/०९/२०२३

प्रति,

मा. शाखाधिकारी,

बँक ऑफ महाराष्ट्र शाखा - सांगोला

ता. सांगोला, जि. सोलापूर

विषय :- मानधन शिक्षकांच्या खात्यावर वर्ग करणेबाबत ...

महोदय,

आमचे महाविद्यालयाचे आपले बँकेत नॉन - सॅलरी खाते नंबर - 60101820852 असून सन २०२२-२०२३ मध्ये महाविद्यालयातील शिक्षकांनी रिसर्च पेपर व पुस्तके प्रकाशित केलेबद्दलचे मानधन सोबत जोडलेल्या यादीतील शिक्षकांच्या खात्यावर वर्ग करण्यासाठी सदर खात्यावरील आपल्या नांवे चेक नंबर - २९६४५२ दिनांक १३.०९.२०२३ ने रमये - १३,५००/- सोबत पाठवून देत आहोत. तरी सोबत जोडलेल्या तपशिलाप्रमाणे शिक्षकांच्या बँक खात्यावर त्यांच्या नांवासमोर दर्शविलेली रक्कम वर्ग करण्यात यावी, ही विनंती आहे.

कळावे,

सोबत :-

मानधन यादी.



आपला विश्वासू,

[Signature]
प्राचार्य

डॉ. गणपतराव देशमुख महाविद्यालय
सांगोला ता.सांगोला जि.सोलापूर



डॉ. गणपतराव देशमुख महाविद्यालय, सांगोला

खर्चाची पावती

दि. २३/१२/२३

४०९

महाविद्यालयातील शिक्षकांनी सन २०२२-२०२३ या शैक्षणिक वर्षामध्ये पुस्तके व शोधनिबंध प्रकाशित केलेबद्दल प्रोत्साहनपर मानधन खालीलप्रमाणे अदा करण्यात आले.

अ.क्र.	शिक्षकांचे नांव	पेपर प्रकाशित	पुस्तके प्रकाशित	मानधन रुपये	सही
१	डॉ. सुर्यवंशी आर. एस.	२	५	१७५०	
२	डॉ. सौ. गायकवाड एस. ए.	३	५	२२५०	
३	डॉ. गायकवाड आर. एस.	१	२	१५००	
४	प्रा. वाकडे ए. के.	२	१	१५००	
५	प्रा. कोकरे बी. डी.	०	४	२०००	
६	डॉ. कदम एस. एन.	१	०	२५०	
७	डॉ. आदलिंगे एन. पी.	१	०	२५०	
८	प्रा. चव्हाण ए. डी.	१	०	५००	
९	डॉ. कु. शिंदे एस. आर.	१	०	५००	
१०	प्रा. भानवसे डी. पी.	२	०	१०००	
११	डॉ. माने के. एस.	१	०	५००	
१२	प्रा. शिंदे एस. बी.	१	०	५००	
१३	प्रा. घाडगे व्ही. के.	१	०	५००	
१४	प्रा. पवार व्ही. एम.	१	०	५००	
एकूण रुपये -				१३५००	



(Signature)
प्राचार्य

डॉ. गणपतराव देशमुख महाविद्यालय
सांगोला वा.सांगोला जि.सोलापूर



A.V. Education Society's

DEGLOOR COLLEGE, DEGLOOR

Pin 431717 (Dist. Nanded.)

Affiliated to Swami Ramanand Teerth Marathwada University, Nanded
(Junior & Senior - Arts, Science, Commerce & Vocational Courses)

Estd. : 1963 Phone : Office 255074, Principal's Resl. 255084, Fax : 256179.

Ref. No. DCD/ 2022-23/453

Date : 28/02/2023

प्रति,
डॉ. किसन माने
विज्ञान महाविद्यालय,
सांगोला

महोदय,

अडत व्यापारी शिक्षण संस्था संचलित देगलूर महाविद्यालय, देगलूर आणि स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड यांच्या संयुक्त विद्यमाने दिनांक ०२ मार्च २०२३ रोजी 'मराठी साहित्य, समाज आणि संस्कृती' या विषयावर आयोजित केलेल्या एकदिवसीय राष्ट्रीय चर्चासत्रासाठी आपण साधनव्यक्ती म्हणून उपस्थित राहिल्याबद्दल आपले मनःपूर्वक आभार. भविष्यातही अशाच सहकार्याची अपेक्षा... धन्यवाद !

प्राचार्य,

देगलूर महाविद्यालय, देगलूर

PRINCIPAL

A.V.E. Society's

Degloor College Degloor



A.V. Education Society's

DEGLOOR COLLEGE, DEGLOOR

Pin 431717 (Dist. Nanded.)

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Estd. : 1963 Phone : Office 255074, Principal's Resi. 255084, Fax : 256179.

Ref. No. DCD/ 2022-23/453

Date : 28/02/2023

प्रति,
डॉ. किसन माने
विज्ञान महाविद्यालय,
सांगोला

विषय : एकदिवसीय राष्ट्रीय चर्चासत्राचे निमंत्रण स्वीकारणे बाबत.

महोदय,

अडत व्यापारी शिक्षण संस्था संचलित देगलूर महाविद्यालय, देगलूर आणि स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड यांच्या संयुक्त विद्यमाने दिनांक ०२ मार्च २०२३ रोजी, 'मराठी साहित्य, समाज आणि संस्कृती' या विषयावर आयोजित केलेल्या एकदिवसीय राष्ट्रीय चर्चासत्रासाठी साधनक्ती म्हणून आपली प्रमुख उपस्थिती प्रार्थनीय आहे. तरी उपस्थित राहून सहकार्य करावे, ही विनंती.

प्राचार्य,

देगलूर महाविद्यालय, देगलूर

PRINCIPAL

A.V.E. Society's
Degloor College Degloor





2023.03.02 15:07

To,
The Principal
Dr. Ganpatrao Deshmukh Mahavidyalay Sangola.

Sub: Distribution of the honorarium for the faculty who had published his Research paper in the UGC approved Journal, Scopus and Web of Science as well as in conference proceedings during the academic year 2022-23.

Respected sir,
As per our strategy to uplift the ongoing research of the faculty in our college and to nourish the research in college. We had decided to pay Rs. 500 for the faculty who had published the research paper in UGC approved journals, Scopus and Web of Science. Following is the list of such faculty who had published the research paper in UGC approved journals, Scopus and Web of Science during the academic year 2021-22. Kindly distribute amongst them.

Thanking you


Chairman

Forum for research

Dr. Ganpatrao Deshmukh Mahavidyalay Sangola.

Sr. No.	Name of the Faculty	Name of the research paper	No. Of papers (500 per paper)	Total
1)	Dr. Rajendra Shankar Suryawanshi & Dr. Seema Anasaheb Gaikwad	1) Current Status of Dragon Fruit Diseases in Sangola Tehsil International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 4, Issue 3, March 2022, www.ijarsct.co.in, DOI: 10.48175/IJARSCT-8322 2) A Study of Problem of Agriculture Labor Female in Solapur District 2012. International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2, Issue 4, June 2022	2x500	1000
2)	Mr. Ashok Kisan Wakde	1) Ganpatraoji deshmukh yanche dushkali bhagatil yogdan	2x500	1000

1


Principal

Dr. Ganpatrao Deshmukh Mahavidyalaya
Sangola Tal. Sangola Dist. Solapur

		International journal of advance and applied research 2) Rajkaran ani social media Journal of research and development		
4)	Dr. Kadam S. N. And Dr. Adlinge N. P.	1) One pot environmental benign synthesis of quinoline-3-carbonitrile derivatives IJSRST RTNA-2023	1x500	500
2)	Dr. R.S. Gaikwad	1) Development and characterization of copper nanoparticle-embedded ph responsive polymeric microbeads for drug delivery and antibacterial applications Chemistry select	500	500
3)	Mr. Audumbar Chavhan	1) Synthesis, spectroscopic characterization and biological activity of pyridine Schiff base ligands by mtt assay Giss Science	500	500
4)	Dr. Shital Rajaram Shinde	1) Green approach to the design of synthesis of benzopyran derivatives by using as greener gel entrapped catalysts IJSRST RTNA-2023	500	500
5)	Mr. Bhanawase Dhanaji Pandurang	1) Different data mining techniques used for data analysis JETIR 2) A study of different data mining techniques used for rainfall prediction ICGAST-2023	2x500	1000
6)	Dr. Seema Anasaheb Gaikwad	1) Organic farming approach for reliable and sustainable agriculture practices Dickensian Journal ISSN 0012-2440	500	500
7)	Dr. Kisan Mane	1) Samakalintech Samarth awhan pelanari kadambari Akshar wangmaya	500	500
8)	Mr. Sambhaji B. Shinde	1) Historic drought events and farm income in India	500	500
9)	Dr. Ghadge V. K.	1) A nonparametric control chart for joint monitoring of location and scale	500	500

Principal

Dr. Ganpatrao Deshmukh Mahavidyalaya
Sangola Tal. Sangola Dist. Solapur

10)	Mr. V. M. Pawar	1)	Mental health and physical training for school physical education teacher		
Total					7500/-



Principal

Dr. Ganpetrao Deshmukh Mahavidyalaya
Sangola Tal. Sangola Dist. Solapur

दिनांक: 11.08.2023

मा. प्राचार्य,

डॉ. गणपतराव देशमुख महाविद्यालय सांगोला

अर्जदार: सह. प्रा. डॉ. राजेंद्र शंकर सूर्यवंशी

विषय: शोधनिबंध लेखन केले बदल प्रोत्साहनपर मानधन मिळणे बाबत.

महोदय,

वरील विषयास अनुसरून डॉ. कदम एस. एन. यांनी सूचित केलेप्रमाणे विनंती अर्ज करतो कि, शैक्षणिक वर्ष 2022-23 मध्ये माझे 2 शोधनिबंध आंतरराष्ट्रीय जर्नल मध्ये प्रकाशित झाला आहे. आपले महाविद्यालयाचे तरतुदी प्रमाणे त्यासाठीचे प्रोत्साहन पार मानधन मिळावे ही विनंती.

कळावे,

सोबत: शोधनिबंध झेरॉक्स जोडत आहे कळावे

आपला विश्वासू.

(डॉ. राजेंद्र शंकर सूर्यवंशी)

शोधनिबंध तपशील

Title of the paper	Name of the Journal, issue(volume), Year (month, if the information is available), page numbers	Details of Publisher with Name, postal address & Internet home page	Sr. No. in the UGC List of Journals (if any), Peer Reviewed* and/or Impact factor (if any, as per Thomson Reuters)
Current Status of Dragon Fruit Diseases in Sangola Tehsil	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 4, Issue 3, March 2022,	www.ijarsct.co.in, DOI: 10.48175/IJARSCT-8322	Impact Factor: 6.252, ISSN (Online) 2581-9429
A Study Of Problem Of Agriculture Labor Female In Solapur District 2012.	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2, Issue 4, June 2022	www.ijarsct.co.in, DOI: 10.48175/IJARSCT-4677	Impact Factor: 6.252, ISSN (Online) 2581-9429

Current Status of Dragon Fruit Diseases in Sangola Tehsil

Dr. Mrs. Seema Gaikwad¹, Dr. Rajendra Suryavanshi², Mahesh Aasbe³

Department of Botany^{1,2}

Vidnyan Mahavidyalaya, Sangola, Maharashtra, India^{1,2}

PAH Solapur University, Solapur, Maharashtra, India

Rukmini Dragon Fruit Farm, Akola, Maharashtra, India³

seemgaik@gmail.com, rss0987@gmail.com

Abstract: Dragon fruit (*Hylocereus* sp.) is a tropical fruit with a unique appearance, crunchy texture and sweet taste. It has become increasingly popular across the Sangola Tahsil as an alternative crop to pomegranate due to its claimed health benefits and commercial value. It is rich in antioxidants like Betalains, Hydroxycinnamates, Flavonoids which may reduce issues from heart problems to cancer. Four varieties are widely planted such as white, red-flesh, Jumbo red and yellow varieties. Dragon fruit production area is about 75 acres. Now a day, dragon fruit growers facing significant challenges due to different diseases and insect pests which impacts on fruit yield production and profitability. This paper provides a comprehensive review of dragon fruit diseases in the study area and their current management options. Correct identification of the causal pathogen is a prerequisite for an effective disease management strategies. We conclude that insect pest attacks, sunburns and fungal reported diseases of dragon fruit and actions are needed to address the growing problems associated with these diseases as no disease management strategies for Dragon fruit diseases has been studied, published and yet to be identified.

Keywords: Dragon Fruit, Fungal diseases, disease management, antioxidants, Flavonoids

I. INTRODUCTION

Dragon fruit is an exotic fruit. Tropical climate is suitable for dragon fruit cultivation. The Dragon fruit (*Hylocereus undatus*) is indigenous to the Americas, but it is currently being cultivated in large quantities in Thailand, Vietnam, Israel and Sri Lanka and now it has started in India also. It can grow in arid and semi-arid regions (Nobel, 1994; Nerd et al., 2002; Nobel, 2002) with very low input cost. It requires less water. It is cultivated in places with dry environment and in soil with proper drainage and good fertilizer density. It cannot be cultivated in waterlogged land. Dragon fruit plants grow well at high temperatures. Temperature about 25°C suitable for its growth & when fruits are growing on the plant, it needs a temperature of 30°C to 35°C but its plant can also tolerate maximum temperature of 40°C and minimum of 7°C. The total world production is about 1 million tons, with the US being the top importing country and Europe as the top importing region (Mercado-Silva, 2018).

The dragon fruit was introduced to home gardens in India in the 1990s. It has many essential properties and energy-building body-building components which makes dragon fruit different from every other fruit on the market. Commercially, dragon fruit appear to have numerous selling points; they are attractive in shape and color, and very good nutraceutical property which attract growers from all over India. Mainly dragon fruit cultivation is found in Maharashtra, Karnataka, Andhra Pradesh, West Bengal, Telangana, Tamil Nadu, Odisha, Gujarat and the Andaman and Nicobar Islands, as well as in many north eastern states. According to the Indian Council of Agriculture Research (ICAR), the fruit can be sold between Rs. 200-250 per kg in metropolitan cities and thus can fetch a huge profit for the farmers. The fruits are in high demand in metropolitan cities due to their nutritive value. The rates of fruits vary from Rs 50 to Rs 120 per kg in the Mumbai, Pune and Surat markets. Retailers sell fruits at Rs 60-Rs 100 per piece in the local market.

II. MATERIAL AND METHOD

The study area was selected from Sangola Tahsil like Anil Salunkhe Dragon Fruit Farm and Rukmini Dragon Farm which are the very first and experimental dragon fruit cultivation farms. The Dragon fruit cultivation started in 2013 from three

A Study of Problem of Agriculture Labor Female in Solapur District 2012

Dr Jundhale Mahadevi Subhash, Dr. Mrs. Seema Gaikwad, Dr. Rajendra Suryavanshi
Vidnyan Mahavidyalaya, Sangola, Solapur
mahadevipatiljundhale@gmail.com

I. INTRODUCTION

Employment of women itself is a modern phenomenon in Indian society and is perceived as a part of modification process itself. Any discussion about working women cannot be done in isolation. It touches to the fundamental question of women in society. Due to development and modernization women's roles have changed. The efficiency of women increased due to their dynamic work in both private and public sectors. In the rural area industries are less developed so the rural area is economically less developed as well as females' life have been less developed hence 15 August is devoted by United Nation for development of the rural women. This day is celebrated as an 'International Rural Women Day.' It is observed those maximum females are cultivator and agriculture labor. But today female literacy has been increasing hence so many women involved in various field as like Medical, Political Service and industries. However, they are suffering from many problems.

II. RESEARCH METHODOLOGY

For the present investigation Solapur district selected as study region and tahsil is an area unit. In Solapur district there are 11 tahsils, out of total tahsil in Solapur district 55 percent tahsil are selected for micro level study based on high proportion of working female population. Amongst and selected sample tahsil North Solapur, Mohol, Pandharpur, Malshiras, Sangola, Madha tahsil. But here sampling involved the selection of rural and urban area. Two tahsils amongst above six tahsils are not urban areas.

According 2001 in above six tahsil, total female working population was 437652. In this population 1 percent working population is selected for micro level study. The sampling process involved the selection of working females in six field. In these six field as Agriculture labor, Cultivator, Services, Medical, Political, Other services females are selected.

Then the sampling which involved selection of 80 females of one field such that total six field females. Here selection of 480 females in one tahsil. Total six tahsil is equal to 2880 females are selected for sampling in rural area. Then urban four tahsils are involved because two tahsil urban areas is not. In four tahsil sampling involved the selection of 1920 females; means here total 4800 females are selected for micro-level study.

In the study region, there were various problem of working females out of selected for sampling five common problems as like Domestic, Physical, Mental, Economic, Social problem are selected.

2.1 Problems of Agriculture Labor Female 2012:

A Female who worked on another person's land for wages in money, kind or share of crop was regarded as an agricultural labor. It takes the domestic, physical, mental, economic social problem of agriculture female.

Table 1: Problem Of Agriculture Labor Respondent Female 2012

Name of tahsils	Number of respondent female									
	Domestic problem		Physical problem		Mental problem		Economic problem		Social problem	
	In %		In %		In %		In %		In %	
North Solapur	119	19.22	124	19.58	99	20.12	113	20.43	119	21.71
Mohal	59	09.53	61	09.63	51	10.36	56	10.12	57	10.40

दिनांक: 11.08.2023

मा. प्राचार्य,

डॉ. गणपतराव देशमुख महाविद्यालय सांगोला

अर्जदार: सह. प्रा. डॉ. सीमा आण्णासाहेब गायकवाड

विषय: शोध निबंध लेखन केले बदल प्रोत्साहनपर मानधन मिळणे बाबत.

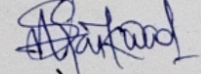
महोदय,

वरील विषयास अनुसरून डॉ. कदम एस. एन. यांनी सूचित केलेप्रमाणे विनंती अर्ज करते कि शैक्षणिक वर्ष 2022-23 मध्ये माझे 2 शोध निबंध राष्ट्रीय जर्नल मध्ये प्रकाशित झाला आहे. आपले महाविद्यालयाचे तरतुदी प्रमाणे त्यासाठीचे प्रोत्साहन पार मानधन मिळावे ही विनंती.

कळावे,

सोबत: शोध निबंध झेरॉक्स जोडत आहे कळावे

आपली विश्वासू.



(डॉ. सीमा आण्णासाहेब गायकवाड)

पुस्तकांचा तपशील

Title of the paper	Name of the Journal, issue(volume), Year (month, if the information is available), page numbers	Details of Publisher with Name, postal address & Internet home page	Sr. No. in the UGC List of Journals (if any), Peer Reviewed* and/or Impact factor (if any, as per Thomson Reuters)
Current Status of Dragon Fruit Diseases in Sangola Tehsil	International Journal of Advanced Research in Science, Communication and Technology (IJARCT), Volume 4, Issue 3, March 2022,	www.ijarsct.co.in, DOI: 10.48175/IJARCT-8322	Impact Factor: 6.252, ISSN (Online) 2581-9429
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organic farming
for reliable
& sustainable
Ag. Production

International
Dickensian
Journal

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ORGANIC FARMING APPROACH FOR RELIABLE AND SUSTAINABLE AGRICULTURE PRACTICES

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2/17

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ABSTRACT

Organic farming includes optimum use of organic materials and microbial fertilizers to boost soil quality and maximize yields, for healthier plant growth and yield, a well-balanced diet is required. Organic manures are two types, such as solid and liquid manures. Solid manures include compost, dung manure, goat manure, farm yard manure etc. Liquid manures include cow urine, fermented curd water, Dashparni ark, Neem cow and urine extract, Garlic chilly extract, along with these Panchgavya, Beejamrut used for seed treatment, Neemastra, Agniaastra and Bramhastra which are used to control insect or pest influence on crop. Organic manure consist higher number of beneficial microorganisms, mainly due to their ingredients such as: cow dung, cow urine etc. It also contain essential macro and micro nutrients, vitamins, amino acids, growth promoters. Applications of vermicompost, poultry manure, Bijamruth 25%, 50%, 75% and 100% and Panchgavya 4% influences seed germination, growth yield.

Keywords:- Organic farming, sustainable agriculture, panchgavya, Beejamrut, Bramhastra

1. INTRODUCTION

The population explosion needs the supply of food grains, and vegetables which are mainly supplied by agriculture. During 1972 to 1990, the green and white revolution grow hand in hand with the applications of chemical fertilizers, insecticides and pesticides. This results in the accumulation of chemicals and pesticides in the food, fodder and vegetables, which drastically spread in the society. Due to bio magnification of these chemical residues, the various ill effects on the society along with occurrence of sporadic diseases are observed. This also results in the reduction in immunity and

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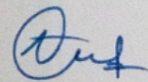
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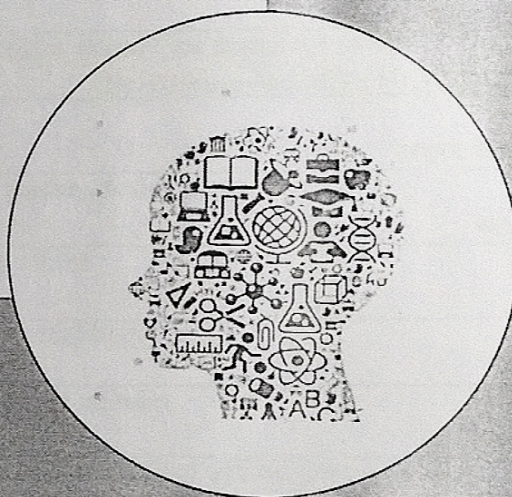
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"गणपतरावजी देशमुख यांचे दुष्काळी भागातील योगदान - एक विकासात्मक अभ्यास"

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प्रस्तावना

महाराष्ट्र राज्याची निर्मिती 1 मे 1960 रोजी झाली त्याअगोदर महाराष्ट्राचा फारसा विकास झालेला नव्हता महाराष्ट्र राज्याचा बरासा भाग हा दुष्काळी, निरक्षर, बेरोजगारी, दळणवळणची साधन नसणारा दुर्गम होता. महाराष्ट्राच्या विकासाला चालना देण्यासाठी शेतीला मोठ्या प्रमाणात प्राधान्य दिले पाहिजे. शेतीला हक्काचे पाणी नाविन्यपूर्ण तंत्रज्ञान जैविक शेती सरकारचे अनुदान मोठ्या प्रमाणात मिळाले पाहिजे. त्याचबरोबर ज्या घटकांना अनुदान पोहोचवण्यासाठी सरकारचे अंमलबजावणी करणारी यंत्रणा महत्वाचे असते ती सक्षम असणं गरजेचे आहे. महाराष्ट्र राज्याच्या विकासामध्ये अनेक दिग्गज थोर राजकारणी, समाज सुधारकांचे, शिक्षण तज्ज्ञांचे योगदान आहे. महाराष्ट्राचा विकास ह्या असेल तर तेथील शेतकऱ्यांनी पावसाच्या पाण्यावर अवलंबून न राहता पाणी साठवून ठेवून शेती केली पाहिजे. ज्या भागांमध्ये मोठ्या प्रमाणात पाऊस पडतो त्या भागातील पाणी दुष्काळग्रस्त पट्ट्यामध्ये वळवले पाहिजे व शेतीला पाणी मिळवून दिले पाहिजे. त्याचबरोबर शेतीला जोडधंदा म्हणून मोठ्या प्रमाणात उद्योगधंदे उभे केले पाहिजे. उदा. शेळीपालन, कुकूटपालन, शिवारावाला पाणी मिळाले तर शेती फुलेल आणि देश अन्नधान्य बावी बावतीत स्वयंपूर्ण होईल हे ओळखून सांगोला तालुक्यामध्ये जलक्रांतीचे महामेळ शेतकरी कामगार पक्षाचे नेते भाई गणपतराव देशमुख यांनी उभ्या आयुष्यामध्ये शेतीसाठी पाणी व दुष्काळग्रस्त भागांसाठी काम केले कुटुंबामध्ये कोणताही राजकीय वारसा नसताना राजकारणामध्ये शून्यातून विश्व निर्माण केले. एकाच पक्षांमध्ये, एकाच मतदारसंघांमध्ये, एकाच झेंड्याखाली, लोकप्रतिनिधित्व करण्याचे भाग्य भाई गणपतराव देशमुख यांना लाभले. 1962 ते 2019 यापर्यंत भाई गणपतराव देशमुख यांनी सांगोला विधानसभा मतदारसंघांमध्ये लोकप्रतिनिधित्व केले. 1962 ते 2019 पर्यंत दोन अपवाद वगळता त्यांनी सर्व मुख्यमंत्र्यांबरोबर काम केले आहे. त्यांचं अनेक पक्षांबरोबर मलोढ्याचे संबंध होते. सांगोला तालुक्यामध्ये सामाजिक, आर्थिक, धार्मिक ऐक्य राखण्याचे काम भाई गणपतराव देशमुख यांनी मोठ्या प्रमाणात केले. त्यांनी कधी जातीय राजकारणाला थारा दिला नाही, समाजातील सर्व स्तरांना एकत्र घेऊन त्यांनी राजकारण केले.

उद्देश

4) दुष्काळग्रस्त भागांसाठी पाण्याच्या योजनांचा अभ्यास

1) गणपतरावजी देशमुख यांचा दुष्काळग्रस्त करणे उदाहरणार्थ देणू - म्हैसाळ योजना.

भागातील योजनांचा अभ्यास करणे.

5) गिंचन क्षेत्रात ची वाढ करणे व विकास करणे यासंदर्भात

2) कायमचा दुष्काळ हटविण्यासाठी सविस्तर अभ्यास करणे.

गणपतरावजी देशमुख यांचे जलगिंचन विषयक विचार अभ्यासणे.

जलक्रांतीचे जनक - भाई गणपतरावजी देशमुख.

3) महाराष्ट्रातील विविध पाण्याची स्रोत धरणे यांची माहिती घेणे.

नेतृत्व हे प्रसापापेक्षा परिस्थिती सापेक्ष असते. परिस्थिती बदलली काळ पालटला आणि पिढी बदलली की नेतृत्वाचे पाटी फिरते मोठ्या नेत्यांच्या लोकप्रियता ओहोटी लागते.

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राजकारण आणि सोशल मिडिया

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सोशल मिडियावर असणं आत्ताच्या काळाची अनिवार्य गरज झाली आहे. तिथं नमणं काळावरोवर नमल्याचं लक्षण मानलं जातं. त्यामुळे काळानं निर्माण केलेलं हे माध्यम समाजानं आपलंसं करणं स्वाभाविक आहे. हे माध्यम आत्ताच्या समाजमनाचा आरसा आहे. बदलत्या राजकारणाला गमजून घेताना सोशल मिडियाला वगळून पुढे जाता येत नाही. सध्याच्या काळात एकूणच राजकारण आणि समाजकारण अधिक समकालीन होत चाललं आहे, असं एका वाजूला वातावरण आहे; तर दुसऱ्या वाजूला माध्यमांचं लोकशाहीतील स्थान व महत्त्व, राजकारणाशी आपले संबंध घट्ट करून ठेवण्यात हे माध्यम यशस्वी झालं आहे. लोकशाही ज्या देशात आहे, तिथं ही वाव संयुक्तिक मानायला हवी. त्यामुळे या दोन्ही क्षेत्रांचा गुंता समजून घेण्यात बदलत्या राजकारणाचा वेध दडलेला आहे. आत्ताच्या राजकारणाचा एकूणच, केंद्रविंदू जुन्या मूल्यांपासून, प्रतीकांपासून व निष्ठांपासून दुसरीकडे सरकलेला आहे. त्या सरकाराच्या मुळाशी सकारात्मक व नकारात्मक कंगोरे आहेत. त्या दोन्ही संदर्भातून सोशल मीडियाचा प्रभाव आणि परिणामकारकता आजच्या राजकारणात कशी दिसते हे पाहणं महत्त्वाचं आहे. व्यक्तिस्वातंत्र्याच्या कल्पना सामाजिक मूल्यांपेक्षा सध्या वरचढ झाल्या आहेत, अशा काळात हे माध्यम जन्माला आलेलं आहे. त्यामुळे राजकारण-समाजकारण यातून मूल्यांची फारकत आणि सोशल मिडिया मान्यता पावणं हे एकाच काळात घडलेलं आहे. सध्याच्या काळात बदलांचा वेग वाढला, परिणामी आपसूकच बदलांची गुंतागुंतदेखील वाढली. ते समजून घ्यायला अधिक समकालीन व्हावं लागेल. त्याचा एक प्रमुख भाग सोशल मिडिया आहे. तो सामूहिक आकर्षण अन् कृतीचा दस्तावेज आहे.

हे माध्यम जन्मानं परदेशी आहे. मात्र ते आजमितीला इतकं देशी झालेलं आहे की, जणू काही ते आपणच जन्माला घातलं आहे! या माध्यमानं आपल्या देशात जे काही चांगल्या अन् वाईट अर्थानं धैमान घातलेलं आहे, ते पाहता, त्यातून राजकारण, उद्योग, करमणूक, आरोग्य अशी जवळपास सगळीच क्षेत्रं पादाक्रांत केलेली आहेत. या सगळ्यांना सोशल मिडियाची गरज भासत आहे. किंबहुना माध्यम म्हणून त्याचा दवाव वाढत असल्यानं ते अपरिहार्य आहे. या माध्यमानं एकाच वेळी समाजाचं जेवढं प्रबोधन चालवले आहे, तेवढीच काही घटकांची बदनामीही या माध्यमाच्या अनियंत्रित व्यवस्थेमुळे होत आहे. जगाच्या वेगावरोवर अन् बदलावरोवर चालायचं असेल तर तुम्ही सोशल मिडियावर असलंच पाहिजे. भारत नावाचा देश बदलतोय. तो सतत बदलत आलेला आहे. पण सोशल मीडियाच्या रेट्यानं तो अधिकच बदलतोय असं भामवलेलं आहे. कारण हे माध्यम जे घडतं, ते सांगण्यात प्रंचड यशस्वी झालेलं आहे. त्याचवरोवर जे घडत नाही तेदेखील तितक्याच, किंबहुना अधिक गतीनं सांगण्यात या माध्यमानं 'यश' संपादन केलेलं आहे. घडणाऱ्या गोष्टी आणि न घडणाऱ्या गोष्टी यांना राजकारणात अतोनात महत्त्व असतं. त्यातच राजकारणात वेळ ही वावही खूप महत्त्वाची असते. सोशल मिडिया या दोन्ही महत्त्वाच्या गोष्टींना 'न्याय' देण्यात तत्पर आहे. जे घडत नाही ते

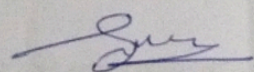
प्रति
मानार्थ
डॉ. राजापतय्य देशमुख महाविद्यालय
सांगोला.

आनंदार : प्र. १, धोरन गल्ले काका

विषय :- संशोधन निबंध पर प्रकाशित इलाहाबाद
मानव मित्रों का कल.

प्रोफेसर,

प्रति विषय अनुमति ही आनंदार को
को दो वर्ष 2022-23 में मास्टर एंड रीसर्च
आर्टिकल प्रकाशित होने अनुमति रीसर्च पोश्त
व IBAC पर ही हीन नये उल्लेखानुसार
पुनर्पत्र मिलने ही हीन



डा. राजापतय्य



One Pot Environmental Benign Synthesis of Quinoline-3-Carbonitrile Derivatives

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ABSTRACT

Bleaching earth clay catalyzed multicomponent reaction of Heterocyclic aldehyde, 2-cyanoacetohydrazide and substituted Anilines, In PEG-400 is carried out. This method has been applied for the synthesis of quinoline-3-carbonitrile with good to excellent yield. In this study a comparison is made on triethylamine, piperidine, morpholine with Bleaching earth clay and with no catalyst. The studies revealed that bleaching earth clay and PEG-400 are more effective than other catalyst and solvents. It increasing the yield of product with less time consumption. All the synthesized compounds were characterized for their spectral analysis.

Keywords : Bleaching earth clay (BEC), PEG-400, Heterocyclic aldehyde, recyclability.

I. INTRODUCTION

The predominant occurrence of the quinoline-3-carbonitrile derivative in various natural products and established medicinal compounds^{1,3} had proven to be a versatile scaffold in organic and medicinal chemistry. quinoline-3-carbonitrile have recognized to acquire varied biological activities such as antibacterial⁴, antiviral⁵, anticancer⁶, antifungal⁷, antimalarial⁸, anti H.I.V⁹, anti-inflammatory¹⁰. Quinoline-3-carbonitrile derivative are acknowledged medicinal compounds known to be present in the bioactive natural products¹¹. Heterocyclic aldehydes are proven to contain varied biological activities¹². By interpreting these points we combine the heterocyclic aldehydes with anilines and 2-cyanoacetohydrazide assuming that the present combination may lead to formation of improved biological hybrid.

There is always been quest for advancement of the synthetic route for the conversion of readily available reagent into widely used organic compounds. For accomplishing this multicomponent reaction (MCR) are recognized as an important tool from economic as well as environmental point of view¹³. Along with the MCR method, use of green solvent is also considered to be an environmental benign access. Amongst the green solvents used for MCR strategy PEG-400 is considered to be well known green solvent¹⁴.

In the previous literature there are abundant synthetic strategies for the synthesis of quinoline-3-carbonitrile derivatives¹⁵. Development of an heterogeneous catalyst for the synthesis of numerous important organic motifs was always been a center of interest for organic chemistry students^{16,17}. Ease of handling, reusability, easy extraction are some peculiar advantages of heterogeneous catalysts. Amongst those

Dr. Gaikewad R. S.
Sangola.
dt - 5/9/2023

પ્રાન.

મા. પ્રાચાર્ય.

ડૉ. ગાંધીભાઈ દેશમુલ મહાવિદ્યાલય કોમ્પોઝ

વેત્ત : - રિસર્ચ આર્ટિકલનાં ૫૦૦/- નામું રજીસ્ટર્ડ
મેઈલિંગ

મહેવત

અહીં વિષયના અનુસાર નો આપના અર્થ વિનંતી
કરતો તો તા ૨૦૨૨-૨૩ થી વર્ષ માટે એ રિસર્ચ
આર્ટિકલ chemistry Europe થી ડિલિવરીનાં કરતો
મહેવત પસંદ કરી રાખે. આમ અર્થનાં રિલેગન્સ
કમ્પાઉન્ડો આમ ૫૦૦/- રજીસ્ટર્ડ મેઈલિંગ થી
જમ વિનંતી

આપનો

આ. વિ.
Gaikewad

નોંધ :-

રિસર્ચ આર્ટિકલ રજીસ્ટર્ડ કરતો
જોડા અહીં.

ડૉ. ગાંધીભાઈ દેશમુલ
મહાવિદ્યાલય કોમ્પોઝ
06/09/2023

ChemistrySelect / Volume 8, Issue 32 / e202301854

Research Article

Development and Characterization of Copper Nanoparticle-Embedded pH-responsive Polymeric Microbeads for Drug Delivery and Antibacterial Applications

Sepuri Ranga Rathnam, Dr. Obireddy Sreekanth Reddy ✉, Rajendra S. Gaikwad, Dr. Shivaji B. Patwari ✉

First published: 23 August 2023

<https://doi.org/10.1002/slct.202301854>

Graphical Abstract

Metronidazole-encapsulated sodium alginate-locust bean gum microbeads embedded with copper nanoparticles (Cu-NPs) for pH-responsive drug delivery applications. Incorporation of Cu-NPs increases the encapsulation efficiency and swelling nature of microbeads. The developed microbeads showed a higher release rate at pH 7.4 than at pH 2.0. Furthermore, the generated microbeads showed antibacterial activity against *S. mutans*, *K. pneumoniae*, and *B. subtilis*.

दि 11/09/2023

मा. प्राचार्य

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विषय: संशोधन पेपर प्रोत्साहनपर मान्यता
मिळणेबाबत - - -

अर्जदार: प्रा. डॉ. चव्हाण औदुंबर दत्तात्रय

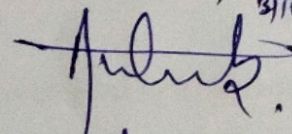
महोदय,

वरील विषयांय अनुक्रम विनंती अर्ज करतो की
शे. वर्ष 2022-23 मध्ये संशोधनात्मक पेपर एक
आंतरराष्ट्रीय जर्नल मध्ये प्रकाशित झाला आहे, ती
संशोधनाय प्रोत्साहनपर मान्यता मिळावे ही नम्रपुर्वक
विनंती.

सोबत:- एक संशोधन पेपर जोडत आहे.

ठिकाणे

आपका विश्वासू



(Dr. Chavan A.D.)

Ph.D. Chemistry.

Synthesis, Spectroscopic Characterization and Biological Activity of Pyridine Schiff Base Ligands by MTT Assay

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²Department Of Chemistry, Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi.

*Department of Chemistry, SSJES's Arts, Commerce and Science College, Gangakhed-431514. Dist. Parbhani (M.S.) India.

Abstract:

Herein we report the synthesis of a series of 4-chloro-N- $\{[(E)\text{-pyridine-2-yl methylidene}]\text{aniline, 4-chloro-2-}\{[(E)\text{-pyridin-2-yl methylidene}]\text{amino}\}\text{benzoic acid, 4-chloro-2-}\{[(1E)\text{-1-(pyridin-2-yl) ethylidene}]\text{amino}\}\text{benzoic acid}$ by reflux 2-pyridine carboxyaldehyde, 4-chloroaniline, 2 amino -4-chlorobenzoic acid, 2- acetyl pyridine in ethanol at 150-200⁰C for 3-4 Hrs. The synthesized compounds were characterized with CHN analysis, IR , ¹HNMR , ¹³C NMR. Synthesized compounds were screened for their In-vitro cytotoxicity and growth inhibitory activities against Human Tumor cell lines .i.e. Liver Cancer cell line HepG₂. Synthesized compounds were tested for anti-microbial, anti-cancer and anti-inflammatory activities against Staphylococcus aureus, Candida albicans, Escherichia coli. we observed that the ligand SB2 (4-chloro-2- $\{[(E)\text{-pyridin-2-yl methylidene}]\text{ amino benzoic acid}$) possessed more potent inhibitory effect against the Cancer Cells. This is due to introduction of chlorine group in the main moiety.

Keywords : Azomethine group, Human Hepatoma Cell lines (HepG₂), Liver cancer cell line, Anti-proliferative effect, Percentage of inhibition, Inflammation, Gram- positive, Gram- negative bacteria ,Yeast.

1 INTRODUCTION

The field of Schiff base metal complexes is fast developing due to wide variety of possible structures for the ligands. Schiff bases are organic compounds having Azomethine group which resulted from condensation of amine with aldehyde or ketone. Schiff base ligands are important in the field of Co-ordination Chemistry forming stable

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Sangola

Date - 05/09/2023

प्रति.

भा. प्राचार्य

डॉ. राजाप्रताप देशमुख महाविद्यालय सांगोला

अर्जदार - डॉ. शितल राजाराम शिंदे.

विषय - प्रोत्साहन लिखी मिळणेबाबत

महोदय,

वरील विषयास अनुसरून मी आपणास अशी
विलेती अर्ज करते की, सन 2022-23 या वर्षात
माझे एक रिसर्च पेपर पब्लीश झाले आहे. सदरच्या
रिसर्च पेपरसाठी आय. व्य. ए. सी. वॉरकीत
दरम्याप्रमाणे रुपये 500/- प्रोत्साहन लिखी मिळवे
ही वस्तु विलेती.

कळवे

सोबत-

रिसर्च आर्टिकल झेरॉक्स कॉपी
जोडत आहे.

आपली आज्ञाधारक

Shital

डॉ. शिंदे एस. भा. ए.

डॉ. शिंदे एस. भा. ए.
रिसर्च आर्टिकल झेरॉक्स कॉपी
जोडत आहे.
06/09/2023



Green Approach to the Design of Synthesis of Benzopyran Derivatives by Using as Greener Gel Entrapped Catalysts

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ABSTRACT

A protocol has been developed for the efficient synthesis of structurally diverse tetrahydrobenzo[*b*]pyran via three-component reactions of dimedone, malanonitrile with various aldehydes and in the presence of gel entrapped NaOH as a catalyst.

Keywords: Gel Entrapped Base Catalyst, tetrahydrobenzo[*b*]pyran, recyclability

I. INTRODUCTION

Multicomponent reactions (MCRs) have attracted considerable attention owing to high synthetic efficiency, and, in many cases, the facile construction of novel molecular libraries. These methodologies are of particularly great utility when they lead to the formation of privileged medicinal scaffolds. Tetrahydrobenzo[*b*]pyrans are an important class of heterocyclic scaffolds in the field of drugs and pharmaceuticals. These compounds are widely used anti-coagulant, anti-cancer and anti-ancaphylactiaspasmolytic agents.¹⁻⁴ In addition, they have been shown to act as cognitive enhancers, for the treatment of neurodegenerative disease, including Huntington's disease, amyotrophic lateral Sclerosis, Alzheimer's disease, AIDS associated dementia and Down's syndrome as well as for the treatment of Schizophrenia and myoclonus.^{5, 6} The polyfunctionalized benzopyrans are used as cosmetics, pigments and biodegradable agrochemicals.⁷ Other than their biological importance, some tetrahydrobenzo[*b*]pyrans have been widely used as photoactive materials.⁸ Looking at their importance from pharmacological and industrial point of view, several methods for the multi-component synthesis of tetrahydrobenzo[*b*]pyrans have been reported. These include both homogeneous as well as heterogeneous conditions, catalyzed by Na_2SeO_4 , hexadecyldimethylbenzyl ammonium bromide,⁹ NaBr ,¹⁰ tetra-methyl ammonium hydroxide $(\text{CH}_3)_4\text{N}^+\text{OH}^-$,¹¹ TEBA,¹² KF-montmorillonite,¹³ KF-alumina,¹⁴ organocatalysts,¹⁵ acetic acid,¹⁶ diammonium hydrogen phosphate¹⁷ and hexadecyltrimethylammonium bromide.¹⁸ Microwaves¹⁹ and ultrasonic irradiation²⁰ have also been used to promote the reaction. Although the literature on synthesis of tetrahydrobenzo[*b*]pyrans enjoys a rich array of versatile methodologies, new efficient approaches can be valuable additions to the contemporary arsenal of synthetic strategies.

मा. प्राचार्य

डा. गणपतराव देशमुख महाविद्यालय,
सांगली.

विषय: - संशोधन पेपर प्रोत्साहनपर मानधन
मिळविले जावे.

अर्जाद: - प्रा. मानवसे धनाजी पांडुरंग
(सांगलीकशास्त्री विभाग)

महोदय,

वरील विषयास अनुसरून विनंती
अर्ज करतो. शे. वर्ष 2022-23 मध्ये
संशोधनात्मक दोन पेपर International
JOURNAL मध्ये प्रकाशित झाले आहेत. तसे
संशोधनास प्रोत्साहनपर मानधन मिळेवे ही
विनंती.

सोपान - संशोधनात्मक पेपर जोडले आहेत.
कळवे.

इजाबे

आपला विश्वासू.



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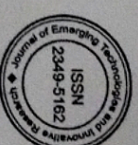
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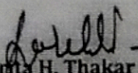
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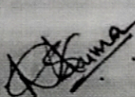
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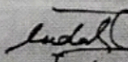
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This is to certify that *Mr. Dhanaji Pandurang Bhanvase* from *Department of Computer Science, Dr Ganapatrao Deshmukh Mahavidyalaya, Sangola* has participated and presented a Poster entitled "*A Study of Different Data Mining Techniques used for Rainfall Prediction*" in the 13th India-Japan Science and Technology Conclave: International Conference on Frontier Areas of Science and Technology (ICFAST-2023) jointly organized by International Affairs Cell, Shivaji University, Kolhapur and Indian JSPS Alumni Association.

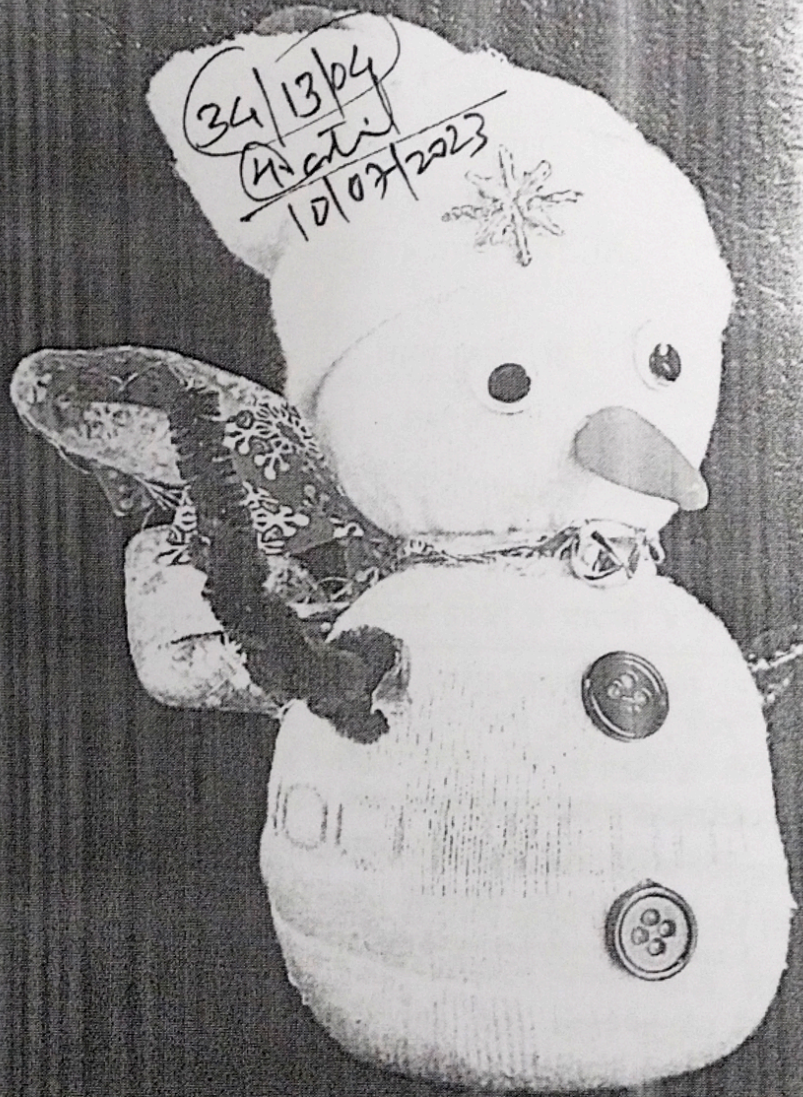

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एप्रिल-मे-जून २०२३
वर्ष : तेरावे अंक : चौथा



संपादक
डॉ. नानासाहेब सूर्यवंशी



अक्षर वाङ्मय

वर्ष : तेरावे अंक : चौथा

एप्रिल-मे-जून २०२३

संपादक

डॉ. नानासाहेब सूर्यवंशी

कार्यकारी संपादक

डॉ. शिवाजीराव देशमुख

मार्गदर्शक

डॉ. अरुण प्रभुणे

संपादक मंडळ

डॉ. विजय वारकड

डॉ. रत्नाकर वेडगे

डॉ. दीपक चिहरवार

डॉ. अंजली मस्करेन्हस

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* या अंकातील लेखांतून व्यक्त झालेल्या लेखकांच्या मतांशी संपादक, संपादक मंडळ, प्रकाशक व मुद्रक सहमत असतीलच असे नाही.

समकालीनतेचे समर्थ आव्हान पेलणारी कादंबरी

- डॉ. किसन माने

प्रास्ताविक

आपल्या देशामध्ये १९९१ पासून जागतिकीकरणाचे वारे मोठ्या प्रमाणात वाहू लागले. या जागतिकीकरणाची ऊब गाव, खेड्यांपासून ते थेट महानगरांपर्यंत जाणवू लागली. भारत हा जसा खेड्यांचा देश आहे तसा तो शेतीप्रधानही आहे. आजही अनेक कुटुंबांचा उदरनिर्वाह शेतीवरच अवलंबून आहे. म्हणून ग्राम व्यवस्थेमध्ये शेतीला महत्त्वाचे स्थान आहे. प्राचीन खेडे आणि जागतिकीकरणानंतरचे खेडे यात खूप मोठे बदल झालेले दिसून येतात. जागतिकीकरणानंतर खेड्यांबरोबर मानवी जीवनातही बदल झालेले आहेत, हे आपण नाकारू शकत नाही. परंतु जागतिकीकरणामुळे मुक्त व्यापार सुरू झाला. जे भांडवलदार व धनदांडगे आहेत ते व्यापाराच्या माध्यमातून गरीब व सर्वसामान्य लोकांवर कब्जा मिळवू लागले. मोठमोठ्या शहरांजवळ -जमिनी आहेत, त्या जास्त दराने खरेदी करून शेतकऱ्यांना विकासाचा भोत दाखवू लागले. त्यामुळे शेतकरी, शेतमजूर, कामगार व अल्पभूधारक शेतकरी उद्ध्वस्त होऊ लागला. त्याच्या झळा शेतकरी व शेतमजुरांना बसू लागल्या. जागतिकीकरणामुळे शेतकरी वर्गाचा संघर्ष अधिकच तीव्र होताना दिसतो. हे बदललेल्या शेतकरी जीवनाचे चित्रण १९९० नंतरच्या कादंबरीतून आले आहे. आर्थिक विकासाच्या नावाखाली शेतकऱ्यांच्या जमिनी काढून घेऊन त्यांना वाऱ्यावर सोडून देणारे वास्तव चित्र विश्वास पाटील यांनी 'झाडाझडती' व शंकर सखाराम यांच्या 'एस.ई. झेड'. (सेझ) या कादंबरीतून त्यांनी रेखांकित केले आहे. मोहन पाटील यांच्या 'वस्तान' व सीताराम सावंतांच्या 'भुई भुई ठाव दे' या कादंबऱ्यांमधूनही आधुनिकीकरणामुळे शेतीवर होणारे आक्रमण व नागरीकरणाच्या आर्थिक हव्यासापोटी शेतजमिनीचे तुकडे करणे यामुळे शेतकरी कसा संकटात सापडलेला

विनीती अर्ज

दि. 11-09-2023

प्रति,
भा. प्रचार्य, डॉ. गणपतराव देशमुख महास्नातोकोत्तर

अर्जदार - डॉ. शिंदे एस. के. (सहयोगी प्राध्यापक)

विषय - संशोधन पत्रिका प्रकाशित झाल्यावरून मागधन मिळोवणे

हेतू,

वरिष्ठ विभागाध्यक्ष अनुमदन करणे विनीती अर्ज
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Association International Journal of Advance and Research
मध्ये प्रिंट झाला आहे, नवी माग मागधन मिळवणे ही विनीती.
Paper Title → "Historical drought events and farm income in India"

कारण,

आपला विश्वास
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VOLUME - 3

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Dr. Pravin Talekar

Dr. Pravin Talekar
Executive Editor

दिनांक: 12.09.2023

मा. प्राचार्य,

डॉ. गणपतराव देशमुख महाविद्यालय सांगोला

अर्जदार: सह. प्रा. घाडगे विजयकुमार कृष्णदेव

विषय: शोधनिबंध लेखन केले बदल प्रोत्साहनपर मानधन मिळणे बाबत.

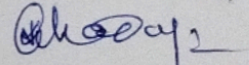
महोदय,

वरील विषयास अनुसरून डॉ. कदम एस. एन. यांनी सूचित केलेप्रमाणे विनंती अर्ज करते कि शैक्षणिक वर्ष 2022-23 मध्ये माझा 1 शोधनिबंध आंतरराष्ट्रीय जर्नल मध्ये प्रकाशित झाला आहे. आपले महाविद्यालयाचे तरतुदी प्रमाणे त्यासाठीचे प्रोत्साहन पार मानधन मिळावे ही विनंती.

कळावे,

सोबत: शोधनिबंध झेरॉक्स जोडत आहे कळावे

आपली विश्वासू.



(घाडगे विजयकुमार कृष्णदेव)

A NONPARAMETRIC CONTROL CHART FOR JOINT MONITORING OF LOCATION AND SCALE

Vijaykumar Ghadage¹ and Vikas Ghute^{2*}

¹Department of Statistics

Vidnyan Mahavidyalaya Sangola (MS)-413307, India
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Abstract

Traditional control charts are based on the assumption that the process observations are normally distributed. However, in many applications, there is insufficient information to justify this assumption. Thus, nonparametric control charts have been designed in literature to monitor location parameter and scale parameter of a process. In this paper, a single nonparametric control chart based on modified Lepage test is proposed for simultaneously monitoring of location and scale parameters of any continuous process distribution. The charting statistic combines two nonparametric test statistics namely Baumgartner test for location and Ansari-Bradley test for scale. The performance of the proposed chart is examined through simulation studies in terms of the mean, the standard deviation, the median and some percentiles of the run length distribution. The average run length (ARL) performance of the proposed chart is compared with that of the existing nonparametric Shewhart-Cuccon (SC) and Shewhart-Lepage (SL) charts for joint monitoring of location and scale.

Keywords: Control chart; average run length; joint monitoring; nonparametric tests; location parameter; scale parameter.

1. Introduction

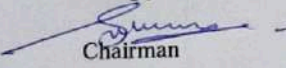
Control charts are the most important statistical process control tool used to monitor manufacturing processes with the objective of detecting any change in process parameters that may affect the quality of the output. Shewhart \bar{X} and R or S control charts are most popular control charts for monitoring process mean and process variability. These control charts are easy to implement but are based on the fundamental assumption that the distribution of quality characteristic is normal. In real applications, there are many situations in which process data come from non-normal distribution. In such situations, it is desirable to use nonparametric control charts. The main advantage of nonparametric control chart is that it does not assume any probability distribution for the characteristic of interest. A formal definition of nonparametric or distribution-free control chart is given in terms of its run-length distribution. The number of samples that need to be collected before the first out-of-signal is given by a chart is a random variable called the run-length; the probability distribution of the run-length is referred to as run-length distribution. If the in-control run-length distribution is same for every continuous distribution then the chart is called as distribution-free or nonparametric (Chakraborti and Fryilmaz [1]). The location and scale of a process are the two main parameters most often monitored in nonparametric control charts. The problem of monitoring the location of a process is important in many applications. The location parameter could be the mean or the median or some

To,
The Principal
Dr. Ganpatrao Deshmukh Mahavidyalay Sangola.

Sub: Distribution of the honorarium for the faculty who had published his Research paper in the UGC approved Journal, Scopus and Web of Science as well as in conference proceedings during the academic year 2022-23.

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Thanking you


Chairman

Forum for research

Dr. Ganpatrao Deshmukh Mahavidyalay Sangola.

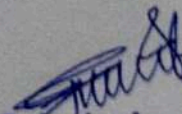
Sr. No.	Name of the Faculty	Name of the research paper	No. Of papers (500 per paper)	Total
1)	Dr. Rajendra Shankar Suryawanshi & Dr. Seema Anasaheb Gaikwad	1) Current Status of Dragon Fruit Diseases in Sangola Tehsil International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 4, Issue 3, March 2022, www.ijarsct.co.in, DOI: 10.48175/IJARSCT-8322 2) A Study of Problem of Agriculture Labor Female in Solapur District 2012. International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2, Issue 4, June 2022	2x500	1000
2)	Mr. Ashok Kisan Wakde	1) Ganpatraoji deshmukh yanche dushkali bhagatil yogdan	2x500	1000

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Principal

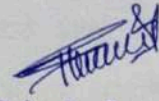
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		International journal of advance and applied research 2) Rajkaran ani social media Journal of research and development		
4)	Dr. Kadam S. N. And Dr. Adlinge N. P.	1) One pot environmental benign synthesis of quinoline-3-carbonitrile derivatives IJSRST RTNA-2023	1x500	500
2)	Dr. R.S. Gaikwad	1) Development and characterization of copper nanoparticle-embedded ph responsive polymeric microbeads for drug delivery and antibacterial applications Chemistry select	500	500
3)	Mr. Audumbar Chavhan	1) Synthesis, spectroscopic characterization and biological activity of pyridine Schiff base ligands by mtt assay Giss Science	500	500
4)	Dr. Shital Rajaram Shinde	1) Green approach to the design of synthesis of benzopyran derivatives by using as greener gel entrapped catalysts IJSRST RTNA-2023	500	500
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डॉ. गणपतराव देशमुख महाविद्यालय सांगोला

अर्जदार: सह. प्रा. डॉ. राजेंद्र शंकर सूर्यवंशी

विषय: शोधनिबंध लेखन केले बदल प्रोत्साहनपर मानधन मिळणे बाबत.

महोदय,

वरील विषयास अनुसरून डॉ. कदम एस. एन. यांनी सूचित केलेप्रमाणे विनंती अर्ज करतो कि, शैक्षणिक वर्ष 2022-23 मध्ये माझे 2 शोधनिबंध आंतरराष्ट्रीय जर्नल मध्ये प्रकाशित झाला आहे. आपले महाविद्यालयाचे तरतुदी प्रमाणे त्यासाठीचे प्रोत्साहन पार मानधन मिळावे ही विनंती.

कळावे,

सोबत: शोधनिबंध झेरॉक्स जोडत आहे कळावे

आपला विश्वासू.

(डॉ. राजेंद्र शंकर सूर्यवंशी)

शोधनिबंध तपशील

Title of the paper	Name of the Journal, issue(volume), Year (month, if the information is available), page numbers	Details of Publisher with Name, postal address & Internet home page	Sr. No. in the UGC List of Journals (if any), Peer-Reviewed* and/or Impact factor (if any, as per Thomson Reuters)
Current Status of Dragon Fruit Diseases in Sangola Tehsil	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 4, Issue 3, March 2022,	www.ijarsct.co.in, DOI: 10.48175/IJARSCT-8322	Impact Factor: 6.252, ISSN (Online) 2581-9429
A Study Of Problem Of Agriculture Labor Female In Solapur District 2012.	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 2, Issue 4, June 2022	www.ijarsct.co.in, DOI: 10.48175/IJARSCT-4677	Impact Factor: 6.252, ISSN (Online) 2581-9429



Current Status of Dragon Fruit Diseases in Sangola Tehsil

Dr. Mrs. Seema Gaikwad¹, Dr. Rajendra Suryavanshi², Mahesh Aasbe³

Department of Botany^{1,2}

Vidnyan Mahavidyalaya, Sangola, Maharashtra, India^{1,2}

PAH Solapur University, Solapur, Maharashtra, India

Rukmini Dragon Fruit Farm, Akola, Maharashtra, India³

seemgaik@gmail.com, rss0987@gmail.com

Abstract: Dragon fruit (*Hylocereus* sp.) is a tropical fruit with a unique appearance, crunchy texture and sweet taste. It has become increasingly popular across the Sangola Tehsil as an alternative crop to pomegranate due to its claimed health benefits and commercial value. It is rich in antioxidants like Betalains, Hydroxycinnamates, Flavonoids which may reduce issues from heart problems to cancer. Four varieties are widely planted such as white, red-flesh, Jumbo red and yellow varieties. Dragon fruit production area is about 75 acres. Now a day, dragon fruit growers facing significant challenges due to different diseases and insect pests which impacts on fruit yield production and profitability. This paper provides a comprehensive review of dragon fruit diseases in the study area and their current management options. Correct identification of the causal pathogen is a prerequisite for and effective disease management strategies. We conclude that insect pest attacks, sunburns and fungal reported diseases of dragon fruit and actions are needed to address the growing problems associated with these diseases as no disease management strategies for Dragon fruit diseases has been studied, published and yet to be identified.

Keywords: Dragon Fruit, Fungal diseases, disease management, antioxidants, Flavonoids

I. INTRODUCTION

Dragon fruit is an exotic fruit. Tropical climate is suitable for dragon fruit cultivation. The Dragon fruit (*Hylocereus undatus*) is indigenous to the Americas, but it is currently being cultivated in large quantities in Thailand, Vietnam, Israel and Sri Lanka and now it has started in India also. It can grow in arid and semi-arid regions (Nobel, 1994; Nerd et al., 2002; Nobel, 2002) with very low input cost. It requires less water. It is cultivated in places with dry environment and in soil with proper drainage and good fertilizer density. It cannot be cultivated in waterlogged land. Dragon fruit plants grow well at high temperatures. Temperature about 25°C suitable for its growth & when fruits are growing on the plant, it needs a temperature of 30°C to 35°C but its plant can also tolerate maximum temperature of 40°C and minimum of 7°C. The total world production is about 1 million tons, with the US being the top importing country and Europe as the top importing region (Mercado-Silva, 2018).

The dragon fruit was introduced to home gardens in India in the 1990s. It has many essential properties and energy-building body-building components which makes dragon fruit different from every other fruit on the market. Commercially, dragon fruit appear to have numerous selling points; they are attractive in shape and color, and very good nutraceutical property which attract growers from all over India. Mainly dragon fruit cultivation is found in Maharashtra, Karnataka, Andhra Pradesh, West Bengal, Telangana, Tamil Nadu, Odisha, Gujarat and the Andaman and Nicobar Islands, as well as in many north eastern states. According to the Indian Council of Agriculture Research (ICAR), the fruit can be sold between Rs. 200-250 per kg in metropolitan cities and thus can fetch a huge profit for the farmers. The fruits are in high demand in metropolitan cities due to their nutritive value. The rates of fruits vary from Rs 50 to Rs 120 per kg in the Mumbai, Pune and Surat markets. Retailers sell fruits at Rs 60-Rs 100 per piece in the local market.

II. MATERIAL AND METHOD

The study area was selected from Sangola Tehsil like Anil Salunkhe Dragon Fruit Farm and Rukmini Dragon Farm which are the very first and experimental dragon fruit cultivation farms. The Dragon fruit cultivation started in 2013 from three

A Study of Problem of Agriculture Labor Female in Solapur District 2012

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I. INTRODUCTION

Employment of women itself is a modern phenomenon in Indian society and is perceived as a part of modification process itself. Any discussion about working women cannot be done in isolation. It touches to the fundamental question of women in society. Due to development and modernization women's roles have changed. The efficiency of women increased due to their dynamic work in both private and public sectors. In the rural area industries are less developed so the rural area is economically less developed as well as females' life have been less developed hence 15 August is devoted by United Nation for development of the rural women. This day is celebrated as an 'International Rural Women Day.' It is observed those maximum females are cultivator and agriculture labor. But today female literacy has been increasing hence so many women involved in various field as like Medical, Political Service and industries. However, they are suffering from many problems.

II. RESEARCH METHODOLOGY

For the present investigation Solapur district selected as study region and tahsil is an area unit. In Solapur district there are 11 tahsils, out of total tahsil in Solapur district 55 percent tahsil are selected for micro level study based on high proportion of working female population. Amongst and selected sample tahsil North Solapur, Mohol, Pandharpur, Malshiras, Sangola, Madha tahsil. But here sampling involved the selection of rural and urban area. Two tahsils amongst above six tahsils are not urban areas.

According 2001 in above six tahsil, total female working population was 437652. In this population 1 percent working population is selected for micro level study. The sampling process involved the selection of working females in six field. In these six field as Agriculture labor, Cultivator, Services, Medical, Political, Other services females are selected.

Then the sampling which involved selection of 80 females of one field such that total six field females. Here selection of 480 females in one tahsil. Total six tahsil is equal to 2880 females are selected for sampling in rural area. Then urban four tahsils are involved because two tahsil urban areas is not. In four tahsil sampling involved the selection of 1920 females; means here total 4800 females are selected for micro-level study.

In the study region, there were various problem of working females out of selected for sampling five common problems as like Domestic, Physical, Mental, Economic, Social problem are selected.

2.1 Problems of Agriculture Labor Female 2012:

A Female who worked on another person's land for wages in money, kind or share of crop was regarded as an agricultural labor. It takes the domestic, physical, mental, economic social problem of agriculture female.

Table 1: Problem Of Agriculture Labor Respondent Female 2012

Name of tahsils	Number of respondent female									
	Domestic problem		Physical problem		Mental problem		Economic problem		Social problem	
		In %		In %		In %		In %		In %
North Solapur	119	19.22	124	19.58	99	20.12	113	20.43	119	21.71
Mohal	59	09.53	61	09.63	51	10.36	56	10.12	57	10.40

दिनांक: 11.08.2023

मा. प्राचार्य,

डॉ. गणपतराव देशमुख महाविद्यालय सांगोला

अर्जदार: सह. प्रा. डॉ. सीमा आण्णासाहेब गायकवाड

विषय: शोध निबंध लेखन केले बदल प्रोत्साहनपर मानधन मिळणे बाबत.

महोदय,

वरील विषयास अनुसरून डॉ. कदम एस. एन. यांनी सूचित केलेप्रमाणे विनंती अर्ज करते कि शैक्षणिक वर्ष 2022-23 मध्ये माझे 2 शोध निबंध राष्ट्रीय जर्नल मध्ये प्रकाशित झाला आहे. आपले महाविद्यालयाचे तरतुदी प्रमाणे त्यासाठीचे प्रोत्साहन पार मानधन मिळावे ही विनंती.

कळावे,

सोबत: शोध निबंध झेरॉक्स जोडत आहे कळावे

आपली विश्वासू.

(डॉ. सीमा आण्णासाहेब गायकवाड)

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Title of the paper	Name of the Journal, issue(volume), Year (month, if the information is available), page numbers	Details of Publisher with Name, postal address & Internet home page	Sr. No. in the UGC List of Journals (if any), Peer Reviewed* and/or Impact factor (if any, as per Thomson Reuters)
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ORGANIC FARMING APPROACH FOR RELIABLE AND SUSTAINABLE AGRICULTURE PRACTICES

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2/17

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ABSTRACT

Organic farming includes optimum use of organic materials and microbial fertilizers to boost soil quality and maximize yields, for healthier plant growth and yield, a well-balanced diet is required. Organic manures are two types, such as solid and liquid manures. Solid manures include compost, dung manure, goat manure, farm yard manure etc. Liquid manures include cow urine, fermented curd water, Dashparni ark, Neem cow and urine extract, Garlic chilly extract, along with these Panchgavya, Beejamrut used for seed treatment, Neemastra, Agniaastra and Bramhastra which are used to control insect or pest influence on crop. Organic manure consist higher number of beneficial microorganisms, mainly due to their ingredients such as: cow dung, cow urine etc. It also contain essential macro and micro nutrients, vitamins, amino acids, growth promoters. Applications of vermicompost, poultry manure, Bijamruth 25%, 50%, 75% and 100% and Panchgavya 4% influences seed germination, growth yield.

Keywords:- Organic farming, sustainable agriculture, panchgavya, Beejamrut, Bramhastra

1. INTRODUCTION

The population explosion needs the supply of food grains, and vegetables which are mainly supplied by agriculture. During 1972 to 1990, the green and white revolution grow hand in hand with the applications of chemical fertilizers, insecticides and pesticides. This results in the accumulation of chemicals and pesticides in the food, fodder and vegetables, which drastically spread in the society. Due to bio magnification of these chemical residues, the various ill effects on the society along with occurrence of sporadic diseases are observed. This also results in the reduction in immunity and

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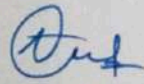
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सांगली.

विषय:- संशोधन पेपर प्रोत्साहनपर माध्यम
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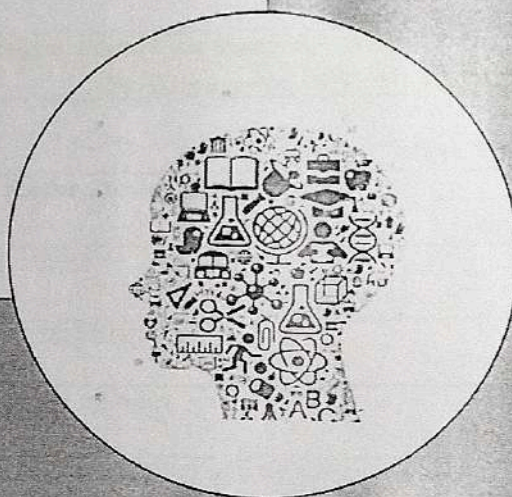
अस. कार्यार- प्रा. पण्डित अशोक किशन

महोदय,
वारीत विषयामुळे अनुसूचित विंगी अर्थितो कि
शे वर्षे 2022-23 मध्ये संशोधनात्मक पेपर ^{दोन} प्रोत्साहनात्मक
प्रोत्साहनात्मक मध्ये प्रकाशित झाले आहेत. तरी संशोधनात्मक
प्रोत्साहनपर माध्यम मिळोविले हि वस्तु विंगी
सोचत दोन संशोधनात्मक पेपर जोडत आहे. ^{कळेल}


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"गणपतरावजी देशमुख यांचे दुष्काळी भागातील योगदान - एक विकासात्मक अभ्यास"

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प्रस्तावना

महाराष्ट्र राज्याची निर्मिती 1 मे 1960 रोजी झाली त्याअगोदर महाराष्ट्राचा फारसा विकास झालेला नव्हता महाराष्ट्र राज्याचा बरासा भाग हा दुष्काळी, निरक्षर, बेरोजगारी, दळणवळणची साधन नसणारा दुर्गम होता. महाराष्ट्राच्या विकासासाठी चालना देण्यासाठी शेतीला मोठ्या प्रमाणात प्राधान्य दिले पाहिजे. शेतीला हक्काचे पाणी नाबिन्यपूर्ण तंत्रज्ञान जैविक शेती सरकारचे अनुदान मोठ्या प्रमाणात मिळाले पाहिजे. त्याचबरोबर ज्या घटकांना अनुदान पोहोचवण्यासाठी सरकारचे अंमलबजावणी करणारी यंत्रणा महत्वाचे असते ती सक्षम असणं गरजेचे आहे. महाराष्ट्र राज्याच्या विकासामध्ये अनेक दिग्गज थोर राजकारणी, समाज सुधारकांचे, शिक्षण तज्ज्ञांचे योगदान आहे. महाराष्ट्राचा विकास ह्या अंगेल तर नेथील शेतकऱ्यांनी पावसाच्या पाण्यावर अवलंबून न राहता पाणी साठवून ठेवून शेती केली पाहिजे. ज्या भागांमध्ये मोठ्या प्रमाणात पाऊस पडतो त्या भागातील पाणी दुष्काळग्रस्त पट्ट्यामध्ये वळवले पाहिजे व शेतीला पाणी मिळवून दिले पाहिजे. त्याचबरोबर शेतीला जोडधंदा म्हणून मोठ्या प्रमाणात उद्योगधंदे उभे केले पाहिजे. उदा. शेळीपालन, कुकूटपालन, शिवारावा पाणी मिळाले तर शेती फुलेल आणि देश अन्नधान्य बावी बावतीत स्वयंपूर्ण होईल हे ओळखून सांगोला तालुक्यामध्ये जलक्रांतीचे महामंडळ शेतकरी कामगार पक्षाचे नेते भाई गणपतराव देशमुख यांनी उभ्या आयुष्यामध्ये शेतीसाठी पाणी व दुष्काळग्रस्त भागांसाठी काम केले कुटुंबामध्ये कोणताही राजकीय वारसा नसताना राजकारणामध्ये शून्यातून विश्व निर्माण केले. एकाच पक्षांमध्ये, एकाच मतदारसंघांमध्ये, एकाच डोंड्याखाली, लोकप्रतिनिधित्व करण्याचे भाग्य भाई गणपतराव देशमुख यांना लाभले. 1962 ते 2019 यापर्यंत भाई गणपतराव देशमुख यांनी सांगोला विधानसभा मतदारसंघांमध्ये लोकप्रतिनिधित्व केले. 1962 ते 2019 पर्यंत दोन अपवाद वगळता त्यांनी सर्व मुख्यमंत्र्यांबरोबर काम केले आहे. त्यांचं अनेक पक्षांबरोबर मलोज्याचे संबंध होते. सांगोला तालुक्यामध्ये सामाजिक, आर्थिक, धार्मिक ऐक्य राखण्याचे काम भाई गणपतराव देशमुख यांनी मोठ्या प्रमाणात केले. त्यांनी कधी जातीय राजकारणाला धारा दिला नाही, समाजातील सर्व स्तरांना एकत्र घेऊन त्यांनी राजकारण केले.

उद्देश

4) दुष्काळग्रस्त भागांसाठी पाण्याच्या योजनांचा अभ्यास

1) गणपतरावजी देशमुख यांचा दुष्काळग्रस्त करणे उदाहरणार्थ देश - महाराष्ट्र योजना.

भागातील योजनांचा अभ्यास करणे.

5) गिंचन क्षेत्रात ची वाढ करणे व विकास करणे यासंदर्भात

2) कायमचा दुष्काळ हटविण्यासाठी सविस्तर अभ्यास करणे.

गणपतरावजी देशमुख यांचे जलगिंचन विषयक विचार अभ्यासणे.

जलक्रांतीचे जनक - भाई गणपतरावजी देशमुख.

3) महाराष्ट्रातील विविध पाण्याची स्रोत धरणे यांची माहिती घेणे.

नेतृत्व हे प्रयागापेक्षा परिस्थिती सापेक्ष असते. परिस्थिती बदलली तरच पालटला आणि पिढी बदलली की नेतृत्वाचे पार्टी पिल्ले मोठ्या नेत्यांच्या लोकप्रियता ओहोटी लागते.

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राजकारण आणि सोशल मिडिया

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सोशल मिडियावर असणं आत्ताच्या काळाची अनिवार्य गरज झाली आहे. तिथं नमणं काळाबरोबर नमल्याचं लक्षण मानलं जातं. त्यामुळे काळानं निर्माण केलेलं हे माध्यम समाजानं आपलंसं करणं स्वाभाविक आहे. हे माध्यम आत्ताच्या समाजमनाचा आरसा आहे. बदलत्या राजकारणाला गमजून घेताना सोशल मिडियाला वगळून पुढे जाता येत नाही. सध्याच्या काळात एकूणच राजकारण आणि समाजकारण अधिक समकालीन होत चाललं आहे, असं एका वाजूला वातावरण आहे; तर दुसऱ्या वाजूला माध्यमाचं लोकशाहीतील स्थान व महत्त्व, राजकारणाशी आपले संबंध घट्ट करून ठेवण्यात हे माध्यम यशस्वी झालं आहे. लोकशाही ज्या देशात आहे, तिथं ही वाव संयुक्तिक मानायला हवी. त्यामुळे या दोन्ही क्षेत्रांचा गुंता समजून घेण्यात बदलत्या राजकारणाचा वेध दडलेला आहे. आत्ताच्या राजकारणाचा एकूणच, केंद्रविंदू जुन्या मूल्यांपासून, प्रतीकांपासून व निष्ठांपासून दुसरीकडे सरकलेला आहे. त्या सरकाराच्या मुळाशी सकारात्मक व नकारात्मक कंगोरे आहेत. त्या दोन्ही संदर्भातून सोशल मीडियाचा प्रभाव आणि परिणामकारकता आजच्या राजकारणात कशी दिमते हे पाहणं महत्त्वाचं आहे. व्यक्तिस्वातंत्र्याच्या कल्पना सामाजिक मूल्यांपेक्षा सध्या वरचढ झाल्या आहेत, अशा काळात हे माध्यम जन्माला आलेलं आहे. त्यामुळे राजकारण-समाजकारण यातून मूल्यांची फारकत आणि सोशल मिडिया मान्यता पावणं हे एकाच काळात घडलेलं आहे. सध्याच्या काळात बदलांचा वेग वाढला, परिणामी आपसूकच बदलांची गुंतागुंतदेखील वाढली. ते समजून घ्यायला अधिक समकालीन व्हावं लागेल. त्याचा एक प्रमुख भाग सोशल मिडिया आहे. तो सामूहिक आकर्षण अन् कृतीचा दस्तावेज आहे.

हे माध्यम जन्मानं परदेशी आहे. मात्र ते आजमितीला इतकं देशी झालेलं आहे की, जणू काही ते आपणच जन्माला घातलं आहे! या माध्यमानं आपल्या देशात जे काही चांगल्या अन् वाईट अर्थानं धैमान घातलेलं आहे, ते पाहता, त्यातून राजकारण, उद्योग, करमणूक, आरोग्य अशी जवळपास सगळीच क्षेत्रं पादाक्रांत केलेली आहेत. या सगळ्यांना सोशल मिडियाची गरज भासत आहे. किंबहुना माध्यम म्हणून त्याचा दबाव वाढत असल्यानं ते अपरिहार्य आहे. या माध्यमानं एकाच वेळी समाजाचं जेवढं प्रबोधन चालवले आहे, तेवढीच काही घटकांची बदनामीही या माध्यमाच्या अनियंत्रित व्यवस्थेमुळे होत आहे. जगाच्या वेगाबरोबर अन् बदलाबरोबर चालायचं असेल तर तुम्ही सोशल मिडियावर असलंच पाहिजे. भारत नावाचा देश बदलतोय, तो सतत बदलत आलेला आहे. पण सोशल मीडियाच्या रेट्यानं तो अधिकच बदलतोय असं मामवलेलं आहे. कारण हे माध्यम जे घडतं, ते सांगण्यात प्रंचड यशस्वी झालेलं आहे. त्याचबरोबर जे घडत नाही तेदेखील तितक्याच, किंबहुना अधिक गतीनं सांगण्यात या माध्यमानं 'यश' संपादन केलेलं आहे. घडणाऱ्या गोष्टी आणि न घडणाऱ्या गोष्टी यांना राजकारणात अतोनात महत्त्व असतं, त्यातच राजकारणात वेळ ही वावही खूप महत्त्वाची असते. सोशल मिडिया या दोन्ही महत्त्वाच्या गोष्टींना 'न्याय' देण्यात तत्पर आहे. जे घडत नाही ते

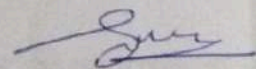
પ્રતી
માનનીય
ડૉ. રાખાપતરાય રેશમીયા મહાવિદ્યાલય
સાંગોળા.

આનંદાર ન પ્રા. શુ. દ્યોરન ગાદદે બદલ

વિષય :- સંશોધન વિષયો પર પ્રાકાશિત જ્ઞાનાવધાર્મિક
માનવ મિલકતો વાવેળ.

પ્રતિબંધ,

વડોત વિષયમાં અનુમતિ મળી આવી છે
કોઈ શ્રે વર્ષ 2022-23 ના દરમિયાન આ રીતે
આવીએ પ્રકાશિત જ્ઞાનો અનુસાર વિષયો પોશ્ત
વ IBAO થઈ ગઈએ નાદે ઉપરમાનુસાર
પરજાન મોલતે દો વિનંતે



ડૉ. રાખાપતરાય રેશમીયા



One Pot Environmental Benign Synthesis of Quinoline-3-Carbonitrile Derivatives

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ABSTRACT

Bleaching earth clay catalyzed multicomponent reaction of Heterocyclic aldehyde, 2-cyanoacetohydrazide and substituted Anilines, In PEG-400 is carried out. This method has been applied for the synthesis of quinoline-3-carbonitrile with good to excellent yield. In this study a comparison is made on triethylamine, piperidine, morpholine with Bleaching earth clay and with no catalyst. The studies revealed that bleaching earth clay and PEG-400 are more effective than other catalyst and solvents. It increasing the yield of product with less time consumption. All the synthesized compounds were characterized for their spectral analysis.

Keywords : Bleaching earth clay (BEC), PEG-400, Heterocyclic aldehyde, recyclability.

1. INTRODUCTION

The predominant occurrence of the quinoline-3-carbonitrile derivative in various natural products and established medicinal compounds¹⁻³ had proven to be a versatile scaffold in organic and medicinal chemistry. quinoline-3-carbonitrile have recognized to acquire varied biological activities such as antibacterial⁴, antiviral⁵, anticancer⁶, antifungal⁷, antimalarial⁸, anti H.I.V⁹, anti-inflammatory¹⁰. Quinoline-3-carbonitrile derivative are acknowledged medicinal compounds known to be present in the bioactive natural products¹¹. Heterocyclic aldehydes are proven to contain varied biological activities¹². By interpreting these points we combine the heterocyclic aldehydes with anilines and 2-cyanoacetohydrazide assuming that the present combination may lead to formation of improved biological hybrid.

There is always been quest for advancement of the synthetic route for the conversion of readily available reagent into widely used organic compounds. For accomplishing this multicomponent reaction (MCR) are recognized as an important tool from economic as well as environmental point of view¹³. Along with the MCR method, use of green solvent is also considered to be an environmental benign access. Amongst the green solvents used for MCR strategy PEG-400 is considered to be well known green solvent¹⁴.

In the previous literature there are abundant synthetic strategies for the synthesis of quinoline-3-carbonitrile derivatives¹⁵. Development of an heterogeneous catalyst for the synthesis of numerous important organic motifs was always been a center of interest for organic chemistry students¹⁶⁻¹⁷. Ease of handling, reusability, easy extraction are some peculiar advantages of heterogeneous catalysts. Amongst those

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Sangola.
dt - 5/9/2023

પ્રાપ્ત

મા. પ્રાચાર્ય

ડૉ. ગોવિન્દરાવ દેશમુકવ મહાવિદ્યાલય વાંશોળ

વિષય :- રિજર્ન આર્ટિકલનાં ૫૦૦/- નામું રજીસ્ટર્ડ
મિકેનિકલ

મહોદય

સરકાર વિષયના અનુસાર નો આપના અર્થ વિનંતી
કરતો તો જાન ૨૦૨૨-૨૩ થી વર્ષ માટે એ રિજર્ન
આર્ટિકલ chemistry Europe થી રિસર્ચનાં કરતો
મને પસંદ કરા જાશે તો. આમ અપના રિસર્ચનાં
રકમનામું ૫૦૦/- રજીસ્ટર્ડ મિકેનિકલ
જામ વિનંતી

આપનો

આ. રા.
R. S.

નોંધ :-

રિજર્ન આર્ટિકલ રજીસ્ટર્ડ કરતો
જોડાતો આપને.

ડૉ. ગોવિન્દરાવ દેશમુકવ
મહાવિદ્યાલય વાંશોળ
05/09/2023

ChemistrySelect / Volume 8, Issue 32 / e202301854

Research Article

Development and Characterization of Copper Nanoparticle-Embedded pH-responsive Polymeric Microbeads for Drug Delivery and Antibacterial Applications

Sepuri Ranga Rathnam, Dr. Obireddy Sreekanth Reddy ✉, Rajendra S. Gaikwad, Dr. Shivaji B. Patwari ✉

First published: 23 August 2023

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Graphical Abstract

Metronidazole-encapsulated sodium alginate-locust bean gum microbeads embedded with copper nanoparticles (Cu-NPs) for pH-responsive drug delivery applications. Incorporation of Cu-NPs increases the encapsulation efficiency and swelling nature of microbeads. The developed microbeads showed a higher release rate at pH 7.4 than at pH 2.0. Furthermore, the generated microbeads showed antibacterial activity against *S. mutans*, *K. pneumoniae*, and *B. subtilis*.

दि 11/09/2023

मा. प्रचार्य

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सांगोला.

विषय: संशोधन पेपर प्रोत्साहनपर मान्यता
मिळणेबाबत - - -

अर्जदार: प्रा. डॉ. चव्हाण औदुंबर दत्तात्रय

महोदय,

वरील विषयांय अनुक्रम विनंती अर्ज करतो की
शे. वर्ष 2022-23 मध्ये संशोधनात्मक पेपर रद्द
आंतरराष्ट्रीय जर्नल मध्ये प्रकाशित झाला आहे, ती
संशोधनाय प्रोत्साहनपर मान्यता मिळावे ही नम्रपुर्वक
विनंती.

सोबत:- एक संशोधन पेपर जोडत आहे.

ठिकाणे

आपका विश्वासू.

(Signature)

(Dr. Chavan A.D.)

Ph.D. Chemistry.

Synthesis, Spectroscopic Characterization and Biological Activity of Pyridine Schiff Base Ligands by MTT Assay

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²Department Of Chemistry, Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi.

*Department of Chemistry, SSJES's Arts, Commerce and Science College, Gangakhed-431514. Dist. Parbhani (M.S.) India.

Abstract:

Herein we report the synthesis of a series of 4-chloro-N- $\{[(E)\text{-pyridine-2-yl methylidene}] \text{aniline}, 4\text{-chloro-2-}\{[(E)\text{-pyridin-2-yl methylidene}] \text{amino}\} \text{benzoic acid}, 4\text{-chloro-2-}\{[(1E)\text{-1-(pyridin-2-yl) ethylidene}] \text{amino}\} \text{benzoic acid}$ by reflux 2-pyridine carboxyaldehyde, 4-chloroaniline, 2 amino -4-chlorobenzoic acid, 2- acetyl pyridine in ethanol at 150-200⁰C for 3-4 Hrs. The synthesized compounds were characterized with CHN analysis, IR, ¹HNMR, ¹³C NMR. Synthesized compounds were screened for their In-vitro cytotoxicity and growth inhibitory activities against Human Tumor cell lines .i.e. Liver Cancer cell line HepG₂. Synthesized compounds were tested for anti-microbial, anti-cancer and anti-inflammatory activities against *Staphylococcus aurous*, *Candida albicans*, *Escherichia coli*. we observed that the ligand SB2 (4-chloro-2- $\{[(E)\text{-pyridin-2-yl methylidene}] \text{amino benzoic acid}\}$ possessed more potent inhibitory effect against the Cancer Cells. This is due to introduction of chlorine group in the main moiety.

Keywords : Azomethine group, Human Hepatoma Cell lines (HepG₂), Liver cancer cell line, Anti-proliferative effect, Percentage of inhibition, Inflammation, Gram- positive, Gram- negative bacteria ,Yeast.

1 INTRODUCTION

The field of Schiff base metal complexes is fast developing due to wide variety of possible structures for the ligands. Schiff bases are organic compounds having Azomethine group which resulted from condensation of amine with aldehyde or ketone. Schiff base ligands are important in the field of Co-ordination Chemistry forming stable

Dr. Shital Rajaram Jinde

Sangola

Date - 05/09/2023

प्रति.

भा. प्राचार्य

डॉ. राजाप्रताप देशमुख महाविद्यालय सांगोला

अर्जदार - डॉ. शिखर राजाराम शिंदे.

विषय - प्रोत्साहन निधी मिळणेबाबत

महोदय,

वरील विषयास अनुसरून मी आपणास अशी
विलेती अर्ज करते की, सन 2022-23 या वर्षात
माझे एक रिसर्च पेपर पब्लीश झाले आहे. सदरच्या
रिसर्च पेपरसाठी आय. व्हा. ए. सी. बँकीत
ठरल्याप्रमाणे रुपये 500/- प्रोत्साहन निधी मिळावे
ही विलेती.

कळवे

भाषली अज्ञाधारक

Shikhar

डॉ. शिंदे एस. भा. ए.

सोबत-

रिसर्च आर्टिकल झेरॉक्स कॉपी
जोडत आहे.

डॉ. शिखर राजाराम शिंदे
सांगोला
06/09/2023



Green Approach to the Design of Synthesis of Benzopyran Derivatives by Using as Greener Gel Entrapped Catalysts

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ABSTRACT

A protocol has been developed for the efficient synthesis of structurally diverse tetrahydrobenzo[*b*]pyran via three-component reactions of dimedone, malanonitrile with various aldehydes and in the presence of gel entrapped NaOH as a catalyst.

Keywords: Gel Entrapped Base Catalyst, tetrahydrobenzo[*b*]pyran, recyclability

I. INTRODUCTION

Multicomponent reactions (MCRs) have attracted considerable attention owing to high synthetic efficiency, and, in many cases, the facile construction of novel molecular libraries. These methodologies are of particularly great utility when they lead to the formation of privileged medicinal scaffolds. Tetrahydrobenzo[*b*]pyrans are an important class of heterocyclic scaffolds in the field of drugs and pharmaceuticals. These compounds are widely used anti-coagulant, anti-cancer and anti-ancaphylactiaspasmolytic agents.¹⁻⁴ In addition, they have been shown to act as cognitive enhancers, for the treatment of neurodegenerative disease, including Huntington's disease, amyotrophic lateral Sclerosis, Alzheimer's disease, AIDS associated dementia and Down's syndrome as well as for the treatment of Schizophrenia and myoclonus.^{5, 6} The polyfunctionalized benzopyrans are used as cosmetics, pigments and biodegradable agrochemicals.⁷ Other than their biological importance, some tetrahydrobenzo[*b*]pyrans have been widely used as photoactive materials.⁸ Looking at their importance from pharmacological and industrial point of view, several methods for the multi-component synthesis of tetrahydrobenzo[*b*]pyrans have been reported. These include both homogeneous as well as heterogeneous conditions, catalyzed by Na_2SeO_4 , hexadecyldimethylbenzyl ammonium bromide,⁹ NaBr ,¹⁰ tetra-methyl ammonium hydroxide $(\text{CH}_3)_4\text{N}^+\text{OH}^-$,¹¹ TEBA,¹² KF-montmorillonite,¹³ KF-alumina,¹⁴ organocatalysts,¹⁵ acetic acid,¹⁶ diammonium hydrogen phosphate¹⁷ and hexadecyltrimethylammonium bromide.¹⁸ Microwaves¹⁹ and ultrasonic irradiation²⁰ have also been used to promote the reaction. Although the literature on synthesis of tetrahydrobenzo[*b*]pyrans enjoys a rich array of versatile methodologies, new efficient approaches can be valuable additions to the contemporary arsenal of synthetic strategies.

मा. प्राचार्य

डा. गणपतराव देशमुख महाविद्यालय,
सांगली.

विषय: - संशोधन पेपर प्रोत्साहनपर मानधन
मिळविले जावे.

अर्जाद: - प्रा. भानवसे धनाजी पांडुरंग
(संगणकशास्त्र विभाग)

महोदय,

वरील विषयास अनुसरून विनंती
अर्ज करतो. शे. वर्ष 2022-23 मध्ये
संशोधनात्मक दोन पेपर International
Journall मध्ये प्रकाशित झाले आहेत. तसे
संशोधनास प्रोत्साहनपर मानधन मिळेवे ही
विनंती.

सोबत - संशोधनात्मक पेपर जोडले आहेत.
कळते.

इजाबेबे

आपला विद्यार्थी.



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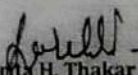
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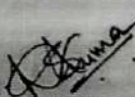
September 08 - 09, 2023

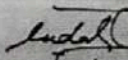
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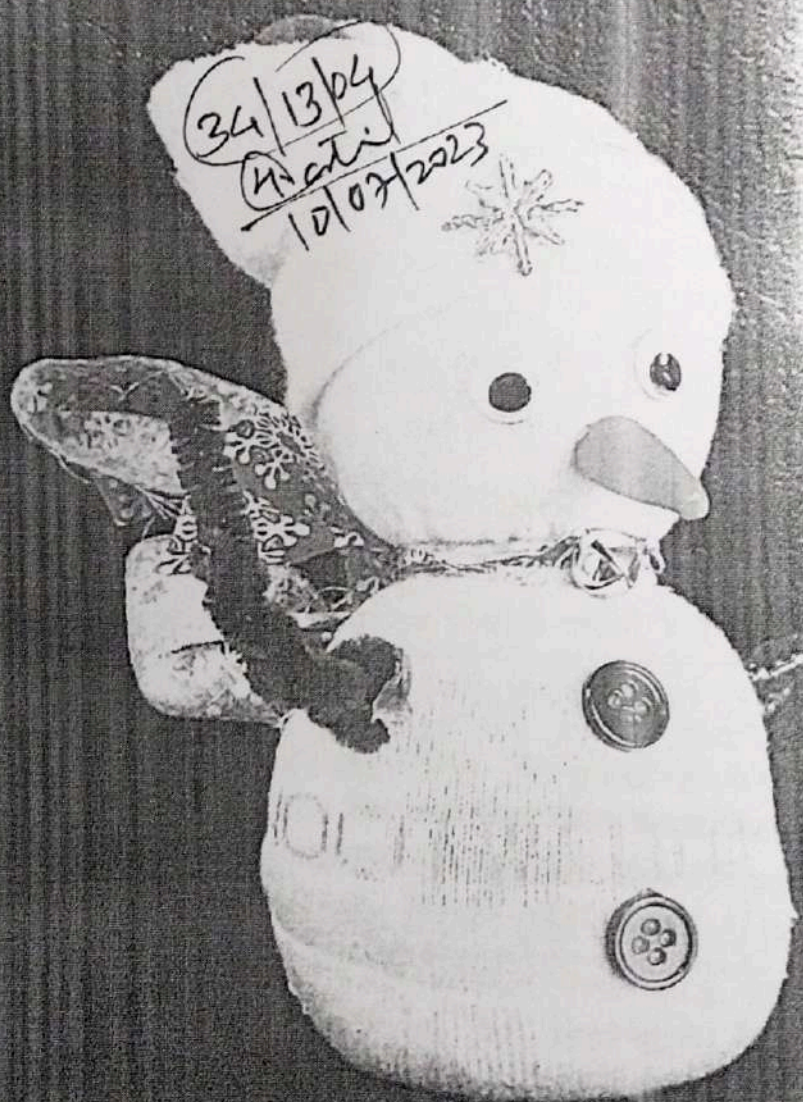

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संपादक
डॉ. नानासाहेब सूर्यवंशी



अक्षर वाङ्मय

वर्ष : तेरावे अंक : चौथा

एप्रिल-मे-जून २०२३

संपादक

डॉ. नानासाहेब सूर्यवंशी

कार्यकारी संपादक

डॉ. शिवाजीराव देशमुख

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डॉ. रत्नाकर वेडगे

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* महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळाने या नियतकालिकाच्या प्रकाशनार्थ अनुदान दिले असले तरी या नियतकालिकातील लेखकांच्या विचारांशी मंडळ व शासन सहमत असेलच असे नाही.
* या अकांतील लेखांतून व्यक्त झालेल्या लेखकांच्या मतांशी संपादक, संपादक मंडळ, प्रकाशक व मुद्रक सहमत असतीलच असे नाही.

समकालीनतेचे समर्थ आव्हान पेलणारी कादंबरी

- डॉ. किसन माने

प्रास्ताविक

आपल्या देशामध्ये १९९१ पासून जागतिकीकरणाचे वारे मोठ्या प्रमाणात वाहू लागले. या जागतिकीकरणाची ऊब गाव, खेड्यांपासून ते थेट महानगरांपर्यंत जाणवू लागली. भारत हा जसा खेड्यांचा देश आहे तसा तो शेतीप्रधानही आहे. आजही अनेक कुटुंबांचा उदरनिर्वाह शेतीवरच अवलंबून आहे. म्हणून ग्राम व्यवस्थेमध्ये शेतीला महत्त्वाचे स्थान आहे. प्राचीन खेडे आणि जागतिकीकरणानंतरचे खेडे यात खूप मोठे बदल झालेले दिसून येतात. जागतिकीकरणानंतर खेड्यांबरोबर मानवी जीवनातही बदल झालेले आहेत. हे आपण नाकारू शकत नाही. परंतु जागतिकीकरणामुळे मुक्त व्यापार सुरू झाला. जे भांडवलदार व धनदांडगे आहेत ते व्यापाराच्या माध्यमातून गरीब व सर्वसामान्य लोकांवर कब्जा मिळवू लागले. मोठमोठ्या शहरांजवळ -जमिनी आहेत, त्या जास्त दराने खरेदी करून शेतकऱ्यांना विकासाचा भोत दाखवू लागले. त्यामुळे शेतकरी, शेतमजूर, कामगार व अल्पभूधारक शेतकरी उद्ध्वस्त होऊ लागला. त्याच्या झळा शेतकरी व शेतमजुरांना बसू लागल्या. जागतिकीकरणामुळे शेतकरी वर्गाचा संघर्ष अधिकच तीव्र होताना दिसतो. हे बदललेल्या शेतकरी जीवनाचे चित्रण १९९० नंतरच्या कादंबरीतून आले आहे. आर्थिक विकासाच्या नावाखाली शेतकऱ्यांच्या जमिनी काढून घेऊन त्यांना वाऱ्यावर सोडून देणारे वास्तव चित्र विश्वास पाटील यांनी 'झाडाझडती' व शंकर सखाराम यांच्या 'एस.ई. ड्रेड'. (सेझ) या कादंबरीतून त्यांनी रेखांकित केले आहे. मोहन पाटील यांच्या 'वस्तान' व सीताराम सावंतांच्या 'भुई भुई ठाव दे' या कादंबऱ्यांमधूनही आधुनिकीकरणामुळे शेतीवर होणारे आक्रमण व नागरीकरणाच्या आर्थिक हत्यासापोटी शेतजमिनीचे तुकडे करणे यामुळे शेतकरी कसा संकटात सापडलेला

विनीती अर्ज

दि. 11-09-2023

प्रति
भा. प्रचार्य, डॉ. गणपतराव देशमुख महास्नातोकोत्तर

अर्जदार - डॉ. शिंदे लक्ष्मी (सहयोगी प्राध्यापक)

विषय - संशोधन पत्रिका प्रकाशित आल्यावर माध्यम मिळोवणे

महोदय,

वरील विषयावर अनुमदन करणे विनीती अर्ज
करणाऱ्या डॉ. व. 2022-23 मध्ये Young Researcher
Association International Journal of Advance and Research
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Paper title → "Historical drought events and farm income in India"

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Sangola

In recognition of the publication of the paper entitled

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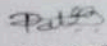
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ISSUE - 5

DATE- 19/11/2022


Dr. Pravin Talekar
Executive Editor

दिनांक: 12.09.2023

मा. प्राचार्य,

डॉ. गणपतराव देशमुख महाविद्यालय सांगोला

अर्जदार: सह. प्रा. घाडगे विजयकुमार कृष्णदेव

विषय: शोधनिबंध लेखन केले बदल प्रोत्साहनपर मानधन मिळणे बाबत.

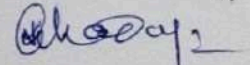
महोदय,

वरील विषयास अनुसरून डॉ. कदम एस. एन. यांनी सूचित केलेप्रमाणे विनंती अर्ज करते कि शैक्षणिक वर्ष 2022-23 मध्ये माझा 1 शोधनिबंध आंतरराष्ट्रीय जर्नल मध्ये प्रकाशित झाला आहे. आपले महाविद्यालयाचे तरतुदी प्रमाणे त्यासाठीचे प्रोत्साहन पार मानधन मिळावे ही विनंती.

कळावे,

सोबत: शोधनिबंध झेरॉक्स जोडत आहे कळावे

आपली विश्वासू.



(घाडगे विजयकुमार कृष्णदेव)

A NONPARAMETRIC CONTROL CHART FOR JOINT MONITORING OF LOCATION AND SCALE

Vijaykumar Ghadage¹ and Vikas Ghute^{2*}

¹Department of Statistics

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* Corresponding Author

Abstract

Traditional control charts are based on the assumption that the process observations are normally distributed. However, in many applications, there is insufficient information to justify this assumption. Thus, nonparametric control charts have been designed in literature to monitor location parameter and scale parameter of a process. In this paper, a single nonparametric control chart based on modified Lepage test is proposed for simultaneously monitoring of location and scale parameters of any continuous process distribution. The charting statistic combines two nonparametric test statistics namely Baumgartner test for location and Ansari-Bradley test for scale. The performance of the proposed chart is examined through simulation studies in terms of the mean, the standard deviation, the median and some percentiles of the run length distribution. The average run length (ARL) performance of the proposed chart is compared with that of the existing nonparametric Shewhart-Cuccon (SC) and Shewhart-Lepage (SL) charts for joint monitoring of location and scale.

Keywords: Control chart; average run length; joint monitoring; nonparametric tests; location parameter; scale parameter.

1. Introduction

Control charts are the most important statistical process control tool used to monitor manufacturing processes with the objective of detecting any change in process parameters that may affect the quality of the output. Shewhart \bar{X} and R or S control charts are most popular control charts for monitoring process mean and process variability. These control charts are easy to implement but are based on the fundamental assumption that the distribution of quality characteristic is normal. In real applications, there are many situations in which process data come from non-normal distribution. In such situations, it is desirable to use nonparametric control charts. The main advantage of nonparametric control chart is that it does not assume any probability distribution for the characteristic of interest. A formal definition of nonparametric or distribution-free control chart is given in terms of its run-length distribution. The number of samples that need to be collected before the first out-of-signal is given by a chart is a random variable called the run-length; the probability distribution of the run-length is referred to as run-length distribution. If the in-control run-length distribution is same for every continuous distribution then the chart is called as distribution-free or nonparametric (Chakraborti and Fryilmaz [1]). The location and scale of a process are the two main parameters most often monitored in nonparametric control charts. The problem of monitoring the location of a process is important in many applications. The location parameter could be the mean or the median or some

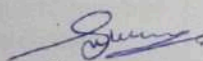
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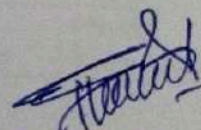
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अर्जदार: सह. प्रा. डॉ. राजेंद्र शंकर सूर्यवंशी

विषय: पुस्तके लेखन केले बदल प्रोत्साहनपर मानधन मिळणे बाबत.

महोदय,

वरील विषयास अनुसरून डॉ. कदम एस. एन. यांनी सूचित केलेप्रमाणे विनंती अर्ज करतो कि शैक्षणिक वर्ष 2022-23 मध्ये मी 5 पुस्तकाचे लेखन केले आहे. आपले महाविद्यालयाचे तरतुदी प्रमाणे त्यासाठीचे प्रोत्साहन पार मानधन मिळावे ही विनंती.

कळावे,

सोबत: पुस्तकाच्या झेरॉक्स जोडत आहे कळावे

आपला विश्वासू.

(डॉ. राजेंद्र शंकर सूर्यवंशी)

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S. N.	Class	Semester	Paper	Title	Publisher	ISBN No.	Year
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2	B. Sc. I	Sem. - I	Paper - II	Fungi & Archegoniates	Phadke Publications	ISBN 978-93-92336-09-6	Oct. 2022
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विषय: पुस्तके लेखन केले बद्दल प्रोत्साहनपर मानधन मिळणे बाबत.

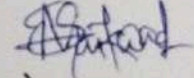
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कळावे,

सोबत: पुस्तकाच्या झेरॉक्स जोडत आहे कळावे

आपली विश्वासू.



(डॉ. सीमा आण्णासाहेब गायकवाड)

पुस्तकांचा तपशील

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2	B. Sc. I	Sem. - I	Paper - II	Fungi & Archegoniates	Phadke Publications	ISBN 978-93-92336-09-6	Oct. 2022
3	B. Sc. I	Sem. - II	Paper - III	Plant Ecology	Phadke Publications	ISBN 978-93-92336-54-6	2023
4	B. Sc. I	Sem. - II	Paper - IV	Taxonomy of Angiosperms	Phadke Publications	ISBN 978-93-92336-55-3	2023
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As per Punyashlok Ahilyadevi Holkar
Solapur University's New CBCS Syllabus

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PAPER I



Dr. P. G. Pataskar • Dr. M. N. Jagtap
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Paper I : Microbiology & Phycology

by

Dr. P. G. Pataskar
M. Sc. Ph. D.

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Mahavidyalaya, Kurduwadi,
Dist. - Solapur.
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Dr. Jagtap M. N.
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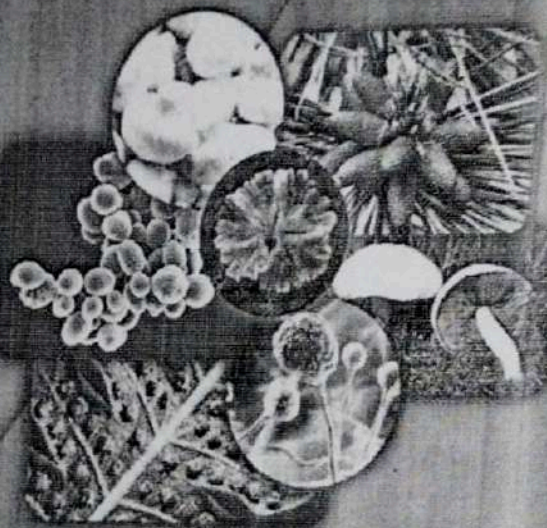
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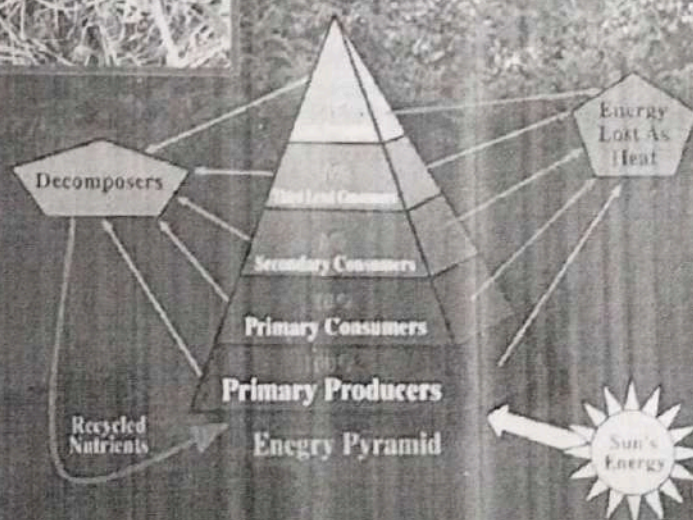
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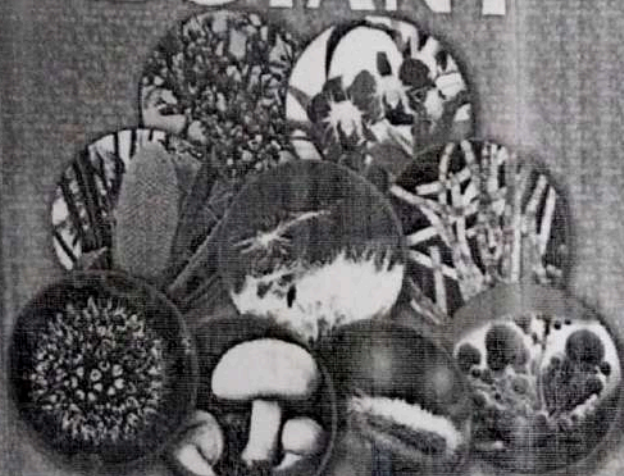


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दि. ८-०८-२०२३

प्रति

मि. प्रियंका

ਜਾਂ ਗਿਆਨਰਾਜ ਦੇਸਾਮੁਖ ਮਹਾਰਾਜ

ကုသိုလ်ကျ

ଉଦାହରଣ: — ଆମ ଉପରକାର ଚାଲିଥିବା ଫୁଲର ଫୁଲମାନ କଟିବି ।
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पुरस्कार प्रकाशनचे प्रोत्साहनपर मान्यता मिष्टोद्योग

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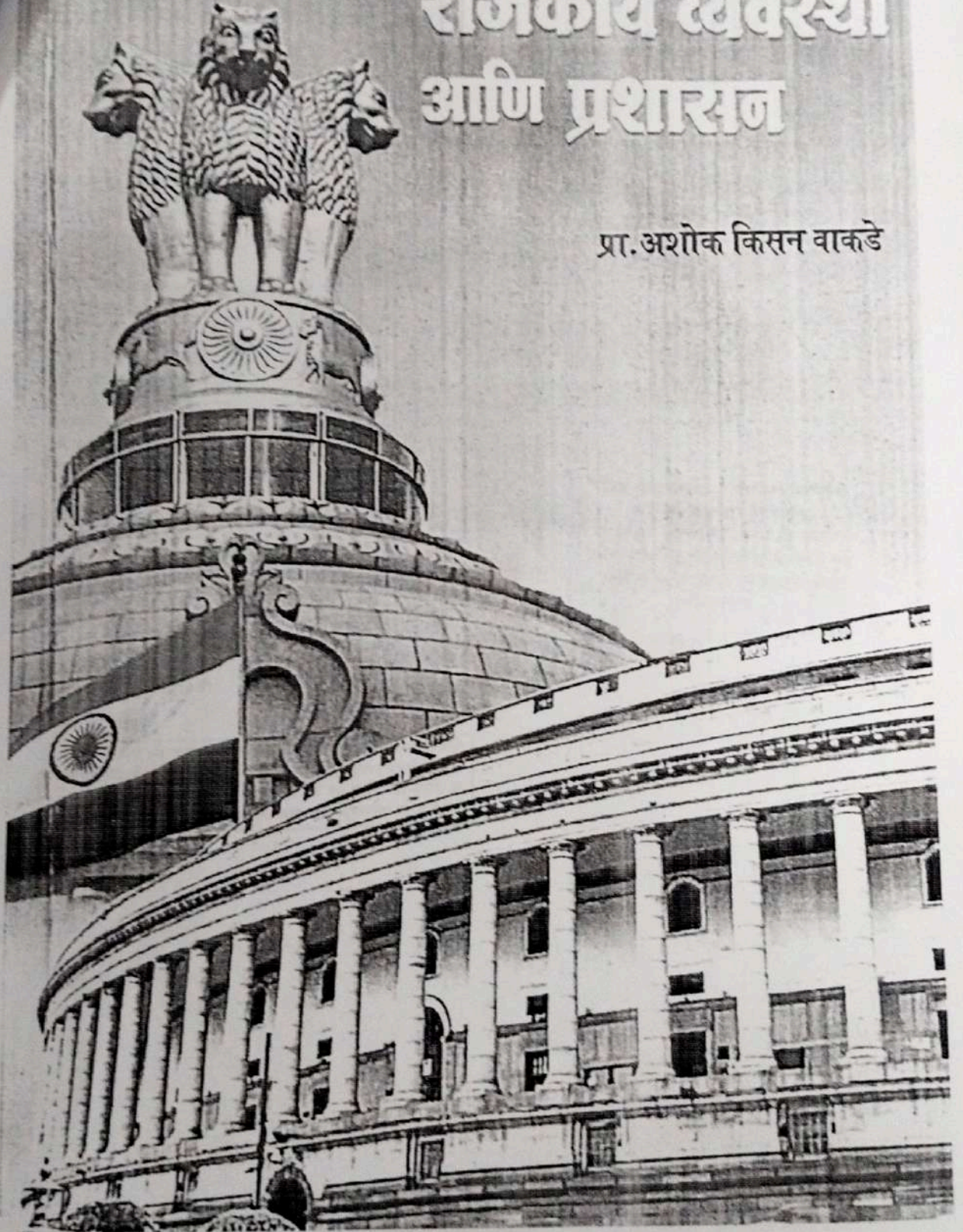
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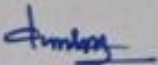
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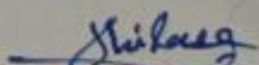
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This is to certify ✓ Mr./Mrs./Miss. Asso. Prof. Vijay Pawar.
College name Vidyan Mahavidyalaya, Sangola
has participated in the Two Day International Conference held on
24th & 25th March 2023 at Pungashlok Ahilyadevi Holkar Solapur
University, Solapur Maharashtra-India.

Conference Coordinator

Dr. Atul Tanaji Lakde

Conference Convener

Prin. Dr. Laxman Babasaheb Patil



Madha Taluka Shikshan Prasarak Mandal's

K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL SCIENCE COLLEGE,
VIDYANAGAR, Bhosare, Tal-Madha, Dist- Solapur (M.S.) (NAAC A Grade 3.10 CGPA)



Faculty of Science and I.Q. A. C.

Organized

**One Day National Conference on Physical, Chemical and Biological Strategies, Tools and Ideas
for Promising Future**

(Sponsored by P. A. H. Solapur University, Solapur)

(10-03-2023)

Certificate

This is to certify that Prof./ Dr./Mr./Ms. KADAM SHUDDHODAN NARHARI of Vidnyan Mahavidyalaya, Sangola has participated in One Day National Conference on Physical, Chemical and Biological Strategies, Tools and Ideas for Promising Future and orally presented paper entitled “Synthesis, characterization and antimicrobial evaluation of TMB chalcone -A scaffold of pyrazoline derivative” in the conference organized by Faculty of Science and I. Q. A. C. of K. N. Bhise Arts, Commerce and Vinayakrao Patil Science College, Vidyanagar, Bhosare (Kurduwadi), Solapur, Maharashtra.

Dr. N. D. Deshmukh
Convener

Head, Dept of Microbiology

Prof. M. M. Patil
Organizing Secretary
Coordinator, Faculty of Science

Prof. Dr. P. S. Kamble
Director
I/C Principal



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

Nanded-431606, Maharashtra State, India

Established on 17th September 1994, Recognized by the UGC U/s 2(f) and 12(B)
NAAC Re-accredited 'B' grade with CGPA 2.96

International Conference on

'Recent Advances in Chemistry and Their Applications in Emerging Areas (ICRAC-2023)'

9 - 11th JANUARY, 2023

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Dr. *Shuddhodan Narhari Kadam* of Vidnyan Mahavidyalaya, Sangola, Dist Solapur -413306 presented his/her research work as Oral on the topic entitled '*Eco-Friendly One pot Three component synthesis of quinoline-3-carbonitrile derivatives*' in the International Conference on '*Recent Advances in Chemistry and Their Applications in Emerging Areas (ICRAC-2023)*' held by School of Chemical Sciences, Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra, India during 9 to 11th January 2023.


Dr. P. K. Zubaidha
Convener


Dr. R. H. Tale
Co-convener



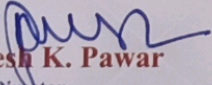
23rd MAHARASHTRA STATE INTER-UNIVERSITY SPORTS MEET KRIDA MAHOTSAV-2019



Organized by
**Punyashlok Ahilyadevi Holkar
Solapur University, Solapur**

Cert No. PAHSUS/SP/KM-2019/ N^o 002478

This is Certify that Mr./ Ms. **Prof. VIJAY PAWAR** of **Punyashlok Ahilyadevi Holkar Solapur University, Solapur** participated as Team Manager / Coach in **KABADDI (Men / Women)** game in the 23rd Maharashtra State Inter-University Sports Meet "**Krida Mahostav-2019**" organized by **Punyashlok Ahilyadevi Holkar Solapur University, Solapur** during 26th to 30th December, 2019.


Dr. Suresh K. Pawar

Director,
Board of Sports & Physical Education
&
Organising Secretary


Dr. Mrunalini M. Fadanvis

Vice - Chancellor
&
Organising Chairman



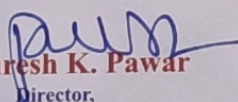
23rd MAHARASHTRA STATE INTER-UNIVERSITY SPORTS MEET KRIDA MAHOTSAV-2019



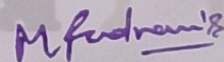
Organized by
**Punyashlok Ahilyadevi Holkar
Solapur University, Solapur**

Cert No. PAHSUS/SP/KM-2019/ N^o 001323

This is Certify that Mr./ Ms. **PATIL PALLAVI RAJKUMAR** of **Punyashlok Ahilyadevi Holkar Solapur University, Solapur** participated as player in **KABADDI(Men / Women)** game in the 23rd Maharashtra State Inter-University Sports Meet "**Krida Mahostav-2019**" organized by **Punyashlok Ahilyadevi Holkar Solapur University, Solapur** during 26th to 30th December, 2019.


Dr. Suresh K. Pawar

Director,
Board of Sports & Physical Education
&
Organising Secretary



Dr. Mrunalini M. Fadanvis
Vice - Chancellor
&
Organising Chairman



23rd MAHARASHTRA STATE INTER-UNIVERSITY SPORTS MEET KRIDA MAHOTSAV-2019

Organized by

**Punyashlok Ahilyadevi Holkar
Solapur University, Solapur**

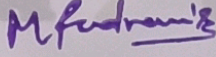


Cert No. PAHSUS/SP/KM-2019/ **N^o** 001311

This is Certify that Mr./ Ms. **BAGAL AKSHAY PRAKASH** of *Punyashlok Ahilyadevi Holkar Solapur University, Solapur* participated as player in **KABADDI(Men / Women)** game in the 23rd Maharashtra State Inter-University Sports Meet "**Krida Mahostav-2019**" organized by **Punyashlok Ahilyadevi Holkar Solapur University, Solapur** during 26th to 30th December, 2019.


Dr. Suresh K. Pawar

Director,
Board of Sports & Physical Education
&
Organising Secretary


Dr. Mrunalini M. Fadanvis

Vice - Chancellor
&
Organising Chairman



23rd MAHARASHTRA STATE INTER-UNIVERSITY SPORTS MEET KRIDA MAHOTSAV-2019

Organized by

**Punyashlok Ahilyadevi Holkar
Solapur University, Solapur**



Cert No. PAHSUS/SP/KM-2019/ N^o 002864

This is Certify that Mr./ Ms. **BAGAL AKSHAY PRAKASH** of *Punyashlok Ahilyadevi Holkar Solapur University, Solapur* secured **Third Place** in **KABADDI (Men / Women)** game in the 23rd Maharashtra State Inter-University Sports Meet "**Krida Mahotsav-2019**" organized by **Punyashlok Ahilyadevi Holkar Solapur University, Solapur** during 26th to 30th December, 2019.

Dr. Suresh K. Pawar

Director,
Board of Sports & Physical Education
&
Organising Secretary

M. Fadanvis

Dr. Mrunalini M. Fadanvis

Vice - Chancellor
&
Organising Chairman



23rd MAHARASHTRA STATE INTER-UNIVERSITY SPORTS MEET KRIDA MAHOTSAV-2019

Organized by

**Punyashlok Ahilyadevi Holkar
Solapur University, Solapur**

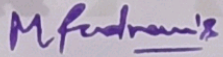


Cert No. PAHSUS/SP/KM-2019/ N^o 001322

This is Certify that Mr./ Ms. **SONALKAR DHANSHREE BHARAT** of **Punyashlok Ahilyadevi Holkar Solapur University, Solapur** participated as player in **KABADDI(Men / Women)** game in the 23rd Maharashtra State Inter-University Sports Meet "Krida Mahostav-2019" organized by **Punyashlok Ahilyadevi Holkar Solapur University, Solapur** during 26th to 30th December, 2019.


Dr. Suresh K. Pawar

Director,
Board of Sports & Physical Education
&
Organising Secretary


Dr. Mrunalini M. Fadanvis

Vice - Chancellor
&
Organising Chairman



Rayat Shikshan Sanstha's

SADGURU GADAGE MAHARAJ COLLEGE, KARAD

(AN AUTONOMOUS COLLEGE - Affiliated to Shivaji University, Kolhapur)

Accredited 'A' with CGPA 3.63 by NAAC • ISO 9001 : 2015 Certified & NAAC Designed Mentor College

Department of Statistics
INTERNATIONAL CONFERENCE ON
Statistics And Data Science
(SDS-2023)



Sponsored by

RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN (RUSA)

CERTIFICATE

This is to certify that, Prof./Dr./Mr./Ms. Vijaykumar krishnadeo Ghadage
of Vidyan Mahavidyalaya, Sangola, Solapur
has Participated/Presented a Paper (Oral / Poster) entitled Improved Distⁿ-Free
Control Charts for process scale.

in **International Conference on Statistics and Data Science (SDS-2023)** organized by
Dept. of Statistics, Sadguru Gadage Maharaj College, Karad on 24th and 25th February 2023.

S.P. Patil

Dr. Mrs. S. P. Patil
Coordinator

S. V. Mahajan

Mrs. S. V. Mahajan
Convener

M. M. Rajmane

Prin. Dr. M. M. Rajmane
S.G.M. College, Karad



Madha Taluka Shikshan Prasarak Mandal's

K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL SCIENCE COLLEGE,
VIDYANAGAR, Bhosare, Tal-Madha, Dist- Solapur (M.S.) (NAAC A Grade 3.10 CGPA)



Faculty of Science and I.Q. A. C.

Organized

**One Day National Conference on Physical, Chemical and Biological Strategies, Tools and Ideas
for Promising Future**

(Sponsored by P. A. H. Solapur University, Solapur)

(10-03-2023)

Certificate

This is to certify that **Prof./ Dr./Mr./Ms. Adlinge Narayan Pandurang** of Vidnyan Mahavidyalaya, Sangola has participated in **One Day National Conference on Physical, Chemical and Biological Strategies, Tools and Ideas for Promising Future** organized by Faculty of Science and I. Q. A. C. of K. N. Bhise Arts, Commerce and Vinayakrao Patil Science College, Vidyanagar, Bhosare (Kurduwadi), Solapur, Maharashtra.

Dr. N. D. Deshmukh
Convener

Head, Dept of Microbiology

Prof. M. M. Patil
Organizing Secretary
Coordinator, Faculty of Science

Prof. Dr. P. S. Kamble
Director
I/C Principal



Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur
(Autonomous)

Dist- Solapur (M.S.), India - 413304

NAAC Reaccreditation A* with CGPA 3.51 UGC CPE status and PARAMARSH Mentor College
Affiliated to Punyashlok Ahilyadevi Holkar Solapur University, Solapur



Two Day International Conference on
Smart Materials for Sustainable Development, Energy and Environmental Applications (SMSDEEA -2023)

Organized by **Department of Physics, Chemistry & Electronics**

In Collaboration with **IQAC & Student Teacher Research Cell**

Under the Aegis of RUSA Component 8



CERTIFICATE

This is to certify that, P/of. /Dr. / Mr. / Ms. /Mrs. Shuddhodan Narhari Kadam
of Vidyan Mahavidyalaya, Sangli
has Attended / Presented Research Paper (Oral / Poster) entitled Synthesis of new 7
substituted-2-hydroxy-1,4-C3-C4-substituted Phenyl
in Two Day International Conference on 'Smart Materials for Sustainable Development, Energy and Environmental Applications' (SMSDEEA -2023) held on 20 - 21 March 2023. His/ Her contribution to the conference is highly appreciated.

Mr. Y. A. Pathak
Organizing Secretary

Mr. R. J. Kavade
Coordinator

Mr. A. R. Patil
Convener

Dr. C. J. Khilare
Director & Principal
Karmaveer Bhaurao Patil Mahavidyalaya,
Pandharpur (Autonomous)



Rayat Shikshan Sanstha's

SADGURU GADAGE MAHARAJ COLLEGE, KARAD

(AN AUTONOMOUS COLLEGE - Affiliated to Shivaji University, Kolhapur)

Accredited 'A+' with CGPA 3.63 by NAAC • ISO 9001 : 2015 Certified & NAAC Designed Mentor College

Department of Mathematics

ONE DAY INTERNATIONAL CONFERENCE ON

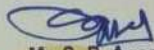
Computational Mathematics (ICCM-2023)




Sponsored by
RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN
(RUSA)

CERTIFICATE

This is to certify that, Prof./Dr./Mr./Ms. Balkrishna Dnyanu kokare
of Vidnyan Mahavidyalaya, Sangola has Participated/Presented a
Oral Paper entitled —
in **International Conference on Computational Mathematics (ICCM-2023)** organized by Dept. of Mathematics,
Sadguru Gadage Maharaj College, Karad on 3rd February 2023.


Mr. S. D. Agarwal
Organizing Secretary


Prof. S. A. Patil
Convener


Prin. Dr. M. M. Rajmane
S.G.M. College, Karad



Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur
(Autonomous)

Dist- Solapur (M.S.), India - 413304

NAAC Reaccreditation 'A' with CGPA 3.51 UGC CPE status and PARAMARSH Mentor College

Affiliated to Purnashlok Ahilyadevi Holkar Solapur University, Solapur



Two Day International Conference on

Smart Materials for Sustainable Development, Energy and Environmental Applications (SMSDEEA -2023)

Organized by **Department of Physics, Chemistry & Electronics**

In Collaboration with **IQAC & Student Teacher Research Cell**

Under the Aegis of RUSA Component 8



CERTIFICATE

This is to certify that, Prof. /Dr. / Mr. / Ms. / Mrs. Shinde Shital Rajaram
of Vidnyan Mahavidyalaya, Sangola
has Attended / Presented Research Paper (Oral / Poster) entitled Multicomponent reaction
using gel Entrapped catalyst
in Two Day International Conference on 'Smart Materials for Sustainable Development, Energy and Environmental Applications' (SMSDEEA-2023) held on 20 - 21 March 2023. His / Her contribution to the conference is highly appreciated.


Mr. Y. A. Pathak
Organizing Secretary


Mr. R. J. Kavade
Coordinator


Mr. A. R. Patil
Convener


Dr. C. J. Khilare
Director & Principal
Karmaveer Bhaurao Patil Mahavidyalaya,
Pandharpur (Autonomous)



SHIVAJI UNIVERSITY COLLEGE LIBRARIAN ASSOCIATION (SUCLA)

BHOGAWATI MAHAVIDYALAYA, KURUKALI
THE NEW COLLEGE, KOLHAPUR

CERTIFICATE OF PARTICIPATION

This is to certify that, **KARANDE SOMNATH MARUTI** of **Vidnyan Mahavidya Sangola** has participated in National Workshop on *"Do's & Don'ts in Developing Institutional Repositories in College Libraries using Dspace"* jointly organized by Bhogawati Mahavidyalaya, The New College, Kolhapur and Shivaji University College Librarian Association (SUCLA) on 10th Jan 2023.

Dr.D.A. Chougale
Principal
Bhogawati Mahavidyalaya

Dr. R. P. Adav
President
SUCLA

Dr. V. M. Patil
Principal
The New College, Kolhapur



6.3.2 - Number of teachers provided with financial support to attend conferences-workshops-2022-23

Documents

CONFERENCE ATTENDED CERTIFICATES



CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

Dr. SEEMA GAIKWAD

for participating in the National workshop on

'YAMADORI, BONSAI AND SUISEKI'

organized on 15th & 16th July, 2023 at Vengurla, Maharashtra

S. M. Deshmukh

Mrs. Suniti Deshmukh
President, Kolhapur Bonsai Club.

Dr. Dhanashree Patil

Dr. Dhanashree Patil
Event Co-ordinator





Certificate

INTERNATIONAL CONFERENCE ON LIVE DEMONSTRATION OF MEDICINAL PLANTS



NISARG ANKUR AYURVEDA 2023

THIMPHU, BHUTAN 27-28 May 2023

Dr. Seema Gaikwad has participated in the
International Conference on Live Demonstration of Medicinal Plants.

☐ Guest Speaker

☐ Co-Ordinator of Scientific Session

☐ Participation

☐ Member of Organising Committee

☒ Paper Presentation

Plants with Medicinal Potential along Man Riparian of Maharashtra

Dr. Madhukar Bachulkar
President, Nisarg Ankur, Kolhapur

Dr. K. P. Latha
President, Nisarg Ankur, Ayurveda 2023

Dr. Santosh Suryawanshi
Secretary, Nisarg Ankur, Ayurveda 2023





Certificate

INTERNATIONAL CONFERENCE ON LIVE DEMONSTRATION OF MEDICINAL PLANTS



NISARG ANKUR AYURVEDA 2023

THIMPHU, BHUTAN 27-28 May 2023

Dr. Seema Gaikwad has participated in the
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☐ Guest Speaker

☐ Co-Ordinator of Scientific Session

☐ Participation

☐ Member of Organising Committee

☒ Paper Presentation

Current Scenario of Nutritional Dragon Fruit Farming in Sangola Tehsil –A review

Dr. Madhukar Bachulkar
President, Nisarg Ankur, Kolhapur

Dr. K. P. Latha
President, Nisarg Ankur, Ayurveda 2023

Dr. Santosh Suryawanshi
Secretary, Nisarg Ankur, Ayurveda 2023





S.T.U.S. Mandal's

SANGOLA COLLEGE, SANGOLA

DEPARTMENT OF CHEMISTRY

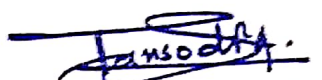
Organizes

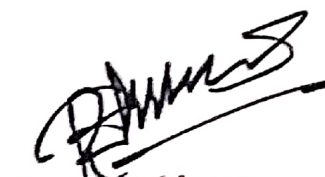
National Seminar on


RECENT TRENDS IN CHEMICAL SCIENCES (RTCS-2022)


Certificate

This is to certify that Dr./Mr. / Mrs. Rajkumar S. Gaikwad of
Vidnyan Mahavidyalaya Sangola has participated/presented paper in National Seminar
on "RECENT TRENDS IN CHEMICAL SCIENCES (RTCS-2022)" organized by the IQAC and Department of
Chemistry, Sangola College, Sangola Dist. Solapur (MS) in Collaboration with Punyashlok Ahilyadevi
Holkar Solapur University Chemistry Teachers Association on 14th September, 2022.


Dr. P. A. Bansode
Convener


Dr. T. R. Mane
IQAC Coordinator

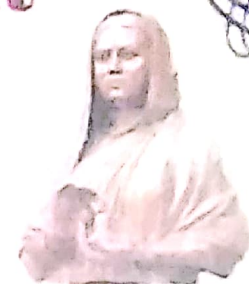

Dr. P. S. Patil
Organizing Secretary


Dr. M. T. Bachute
Principal

PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR



Certificate



This is to certify that Prof./ Dr. / Mr. / Mrs. / Ms. RAJENDRA SHRIRANG GAIKWAD
Vidnyan Mahavidyalaya, Sangola has actively participated / presented research
paper (Oral / Poster) / ~~worked as resource person / organizing committee member~~ in the
National Conference on "Recent Advances in Chemical Sciences" (RACS – 2022) held
in association with the P. A. H. Solapur University Chemistry Teacher's Association
(PAHSUCTA), organized by the School of Chemical Sciences, Punyashlok Ahilyadevi
Holkar Solapur University, Solapur on Thursday, 28th April 2022.

Dr. R. B. Bhosale
Convener
RACS-2022

Dr. V. D. Kadu
Organizing Secretary
RACS-2022



Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur

(Autonomous)

Dist- Solapur (M.S.), India - 413304

NAAC Reaccreditation A+ with CGPA 3.51 UGC CPE status and PARAMARSH Mentor College

Affiliated to Purnyashlok Anilayadevi Holkar Solapur University, Solapur



Two Day International Conference on

Smart Materials for Sustainable Development, Energy and Environmental Applications (SMSDEEA -2023)

Organized by Department of Physics, Chemistry & Electronics

In Collaboration with IQAC & Student Teacher Research Cell

Under the Aegis of RUSA Component 8



CERTIFICATE

This is to certify that, Prof. /Dr. / Mr. / Ms. /Mrs. caikudd Rajendra shirahy
of vidyan mahavidyalaya sangola
has Attended / Presented Research Paper (Oral / Poster) entitled study of new-7
substituted phenyl 2-hydroxy-1-4 C-3 C-4 substituted phenyl)
in Two Day International Conference on 'Smart Materials for Sustainable Development, Energy and Environmental Applications' (SMSDEEA-2023) held on 20 - 21 March 2023. His/Her contribution to the conference is highly appreciated.

Mr. Y. A. Pathak

Mr. R. J. Kavade

Mr. A. R. Patil

Organizing Secretary

Coordinator

Convener

Dr. C. J. Khatre
Director & Principal
Karmaveer Bhaurao Patil Mahavidyalaya,
Pandharpur (Autonomous)



NISARG ANKUR SANSTHA KOLHAPUR

J-4, Pitamber, Jawahar Nagar Housing Society,
Jawahar Nagar, Kolhapur, 416 012 (Maharashtra) India.



International Conference on Live Demonstration of Medicinal Plants

Thimphu , Bhutan

25-31 May 2023

Attendance certificate

This is to certify that Dr. Seema Gaikwad of Vidnyan Mahavidyalaya, Sangola has participated and act as a Chairman in the session of Oral Presentation held at Thimphu, Bhutan from 25.05.2023 to 31.05.2023.

Dr.M.P.Bachulkar
President

NISARG ANKUR SANSTHA
KOLHAPUR

Dr.Santosh Suryawanshi
Convener

NISARG ANKUR AYURVED 2023
Thimphu , Bhutan

NISARG ANKUR SANSTHA
KOLHAPUR (M.S.)

Dr. Madhukar
Bachulkar-Cholekar
President

Dr. Ashok Wali
Vice - President

Dr. Anjali Patil
Vice - President

Tr. Kishor Shinde
Secretary

Dr. Harish Nangare
Vice- Secretary

Mr. Anil Velhal
Treasurer

Tr. Smita Shinde
Director

Mr. Nitin Karanje
Director

Dr. Kamal Nalk
Director

Mr. Salim Balagdar
Director

Mr. Raju Teli
Director

Mr. Dinkar Chougule
Director

Dr. Swati Nangare
Director



Receipt

No. : 16

Date : 10/5/2023

RECEIVED with thanks from Dr. Seema Gaikwad.

The sum of Rupees Five Thousand only

by Cheque / Cash / Draft ☒

in part / full / advance payment on a/c of Registration fee for Conference
Nisarg-Ankur Ayunika-2023

Rs. 5000/-

This receipt is valid subject to Realisation of cheque

Dr
NISARG ANKUR SANSTHA
KOLHAPUR (M. S.)



Certificate

INTERNATIONAL CONFERENCE ON LIVE DEMONSTRATION OF MEDICINAL PLANTS



NISARG ANKUR AYURVEDA 2023

THIMPHU, BHUTAN 27-28 May 2023

Dr. Seema Gaikwad has participated in the
International Conference on Live Demonstration of Medicinal Plants.

- ☐ Guest Speaker ☐ Co-Ordinator of Scientific Session
☐ Participation ☐ Member of Organising Committee ☒ Paper Presentation

Current Scenario of Nutritional Dragon Fruit Farming in Sangola Tehsil -A review

Dr. Madhukar Bachulkar
President, Nisarg Ankur, Kolhapur

Dr. K. P. Latha
President, Nisarg Ankur, Ayurveda 2023

Dr. Santosh Suryawanshi
Secretary, Nisarg Ankur, Ayurveda 2023





Certificate

INTERNATIONAL CONFERENCE ON LIVE DEMONSTRATION OF MEDICINAL PLANTS



NISARG ANKUR AYURVEDA 2023

THIMPHU, BHUTAN 27-28 May 2023

Dr. Seema Gaikwad has participated in the
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- ☐ Guest Speaker ☐ Co-Ordinator of Scientific Session
☐ Participation ☐ Member of Organising Committee ☒ Paper Presentation

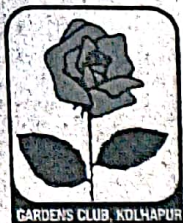
Plants with Medicinal Potential along Man Riparian of Maharashtra

Dr. Madhukar Bachulkar
President, Nisarg Ankur, Kolhapur

Dr. K. P. Latha
President, Nisarg Ankur, Ayurveda 2023

Dr. Santosh Suryawanshi
Secretary, Nisarg Ankur, Ayurveda 2023





CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

Dr. SEEMA GAIKWAD

for participating in the National workshop on

'YAMADORI, BONSAI AND SUISEKI'

organized on 15th & 16th July, 2023 at Vengurla, Maharashtra

S. M. Deshmukh

Mrs. Suniti Deshmukh
President, Kolhapur Bonsai Club.

[Signature]

Dr. Dhanashree Patil
Event Co-ordinator



Certificate

INTERNATIONAL CONFERENCE ON LIVE DEMONSTRATION OF MEDICINAL PLANTS



NISARG ANKUR AYURVEDA 2023

THIMPHU, BHUTAN 27-28 May 2023

Dr. Rajendra Suryavanshi has participated in the
International Conference on Live Demonstration of Medicinal Plants.

☐ Guest Speaker ☐ Co-Ordinator of Scientific Session

☐ Participation ☐ Member of Organising Committee ☒ Paper Presentation

Current Scenario of Nutritional Dragon Fruit Farming in Sangola Tehsil –A review

Dr. Madhukar Bachulkar
President, Nisarg Ankur, Kolhapur

Dr. K. P. Latha
President, Nisarg Ankur, Ayurveda 2023

Dr. Santosh Suryawanshi
Secretary, Nisarg Ankur, Ayurveda 2023





Certificate

INTERNATIONAL CONFERENCE ON LIVE DEMONSTRATION OF MEDICINAL PLANTS



NISARG ANKUR AYURVEDA 2023

THIMPHU, BHUTAN 27-28 May 2023

Dr. Rajendra Suryavanshi has participated in the
International Conference on Live Demonstration of Medicinal Plants.

- ☐ Guest Speaker ☐ Co-Ordinator of Scientific Session
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Plants with Medicinal Potential along Man Riparian of Maharashtra

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