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# INDUSTRIAL SCALE PRODUCTION OF ORGANIC WASTE RECYCLER, BLACK SOLDIER FLY, HERMECIA ILLUCENS L IN RURAL AND URBAN AREAS OF INDIA

#### Karuna P. Ganvir

Department of Zoology,

Dr. R. G. Bhoyar Arts, Commerce and Science College, Seloo, Dist. Wardha Corresponding author E-mail: karunaganvir95@gmail.com

#### Abstract:

Organic waste recycling and waste management is rapidly increasing problem in rural and urban areas in all over India. As per studies 40% to 50% of solid waste generated is organic. Organic waste dumped in soil release methane from decomposition of biodegradable waste under anaerobic conditions which contributes to global warming. Open dumping of organic waste, where number of flies sit and can spread diseases. A more sustainable, economically valuable and environment friendly solution for management of such waste is the use of black soldier fly, Hermecia illucens L. farming, which helps for any organic waste management as well as can, solve the food problem of aquaculture and poultry. Black soldier fly larvae not only useful as a feed of livestock but can generate other by products like Chitin, biodiesel, biogas, fertilizers etc. This chapter will show light onimportance this fly and how this fly is best suitable for organic waste management, in rural and urban areas of India.

**Keywords:** Biowaste management, Black soldier fly, *Hermecia illucens*, insect biomass, waste reduction, biomass conversion, feed conversion rate

#### Introduction:

The management of solid waste generated in a country must be one of the priorities while forming policies at the National level (Abas and Wee, 2014). The framework for solid waste management is still in the development process in India (Akhilesh and Avlokita, 2020). 40 to 50% of solid waste is organic waste which needs to be processed systematically to reduce environmental hazards so development of sustainable waste management solutions is essential. Organic waste management problem is rapidly growing day by day yet difficult to solve, given increased waste production and high costs of disposal (Otles et al., 2015).

Conversion of organic waste into compost by saprophagous such as earthworms and microorganisms are well documented (Suthar and Sing, 2008). In many developing countries, waste collection and disposal are ever-increasing problem and it is believed that one to two thirds



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## **Bacterial Physiology** and Fermentation Technology (MB 212)

### Multiple Choice Questions

As per revised syllabus of Savitribai Phule Pune University, Pune w.e.f 2020

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- 2. Internet connectivity At least 512 KBPS or above (1Mbps recommended). You can check your internet speed on this link https://www.speedtest.net/. The maximum bandwidth required per day is 1 GB for attending the PET successfully.
- 3. Browser Google Chrome browser version (Version 84.0.4147.89) Please check the version of Google Chrome - Go to the top right corner of the browser and click the - option settings - About Browser (Left corner) - if the version is lower, can download chrome from:https://www.google.com/intl/en\_in/chrome/
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Author: Dr. Kshma Murarkar
100. A set of all biochemical reactions that takes place inside the bacterium is referred as
a) Synthesis process
b) Breakdown process
c) Metabolism
d) Amphibolic process
101. Catabolic reactions are generally reactions. a) Hydrolytic

- 102. Catabolic reactions are..... reactions.
- a) Exergonic

b) Dehydration

c) Dehydrogenation d) None of the all

- b) Endergonic
- c) Endothermic
- d) None of the all
- 103. Breakdown of sugars into carbon dioxide is a..... pathway.
- a) Catabolic
- b) Anabolic
- c) Amphibolic
- d) None of the all
- 104. All the anabolic reactions are ..... reactions.
- a) Exergonic
- b) Endergonic
- c)Exothermic
- d) None of the all

105. Transformation of simple carbohydrates into polysaccharide nucleotides etc.is ...

a) Catabolic

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- b) Phosphofructokinase
- c)Hexokinase
- d) None of the all

## 269. A dynamic regulator of Embden Meyerhof Parnas and gluconeogenesis pathway is ......

- a) Phosphoenolpyruvate
- b) Fructose 2,6-diphosphate
- c) Fructose1,6 diphosphate
- d) None of the all

270. In glycolysis ......Adenine diphosphate Phosphate (ADP) is converted into Adenine triphosphate (ATP).

- a) Substrate level phosphorylation step
- b) Preparatory phase
- c) Phosphorylationstep
- d) All the all

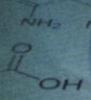
#### **Answer Key**

100)c									
101)a	102)a	103)a	104)b	105)b	106)a	107)b	108)b	109)c	110)a
111)b	112)a	113)b	114)a	115)b	116)b	117)c	118)b	119)a	120)a
121)c	122)a	123)c	124)b	125)a	126)a	127)c	128)b	129)b	130)c
131)a	132)c	133)a	134)d	135)a	136)b	137)d	138)a	139)b	140)c
141)b	142)a	143)c	144)a	145)b	146)a	147)a	148)b	149)a	150)a
151)a	152)b	153)a	154)c	155)a	156)b	157)c	158)a	159)b	160)a
161)a	162)a	163)b	164)c	165)a	166)b	167)c	168)b	169)b	170)b
171)a	172)b	173)c	174)b	175)b	176)c	177)a	178)b	179)c	180)a
181)b	182)a	183)a	184)a	185)a	186)b	187)b	188)c	189)a	190)b



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Sc. SEMESTER-III

al, the molecule is

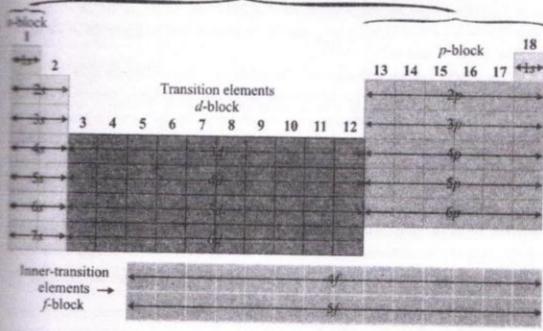
ment on magnetic scule. Calculate its w M6\_agram of magnetic nature of AX and AX3 type configuration and

of bonding and

## A. CHEMISTRY OF ELEMENTS OF FIRST TRANSITION SERIES

electron in the d-subshell belonging to the penultimate or  $(n-1)^{th}$  shell'. The d-block seems are also called the transition elements or metals. This is because they change the desical properties from s-block (electropositive) to p-(electronegative) elements i. e. their seems have been found to be intermediate between those of the s-block and p-block seems. Thus these elements are located in the middle of the periodic table and are the seems of the groups 3 to 12 (IIIB to VIII to IIB) in the modern periodic table. According suppart definition, 'a transition element is an element which has an incomplete d-subshell sether neutral atom or in ions in chemically significant (or common) oxidation state'. Seconding to this definition zinc (Zn), cadmium (Cd) and mercury (Hg) are excluded from the set of transition elements as they neither have partly filled d-subshell in their atoms or they show the usual properties of transition elements to an appreciable extent. Still in the rationalize the classification of elements, they are studied along with other d-block seconds.

Main-group eleements



There are four series of elements which constitute the d-block elements. Each series prises ten elements as given below:

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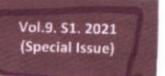
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## Vikas Swarup's Q&A as a Critique of Contemporary India

#### Dr. Vaibhav Pimpale

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Email: vaibhaopimpale@gmail.com

#### Abstract

Q&A is Vikas Swarup debut novel. He captures the essence of Indian culture and delivers a razor-sharp critique of modern Indian society, concentrating on the marginalized isolation and misery. This article follows an incredible tour through India, from Delhi to Mumbai. Although India portrays itself as a cohesive nation aspiring to be a superpower, the novel problematizes the concerns of slum dwellers that are constantly persecuted and alienated. Swarup exposes the rising authoritarianism in the ruling administration and the occasional, comparably unsuccessful resistance to it within the narrative framework of the novel, drawing on events and people from recent Indian history. Despite the employment of a number of non-realistic literary tropes, "Q&A" is primarily a realistic storey, depicting an Indian diplomat's vision of a corrupt and degrading India.

Keywords: critique, slum, dwellers, narrative, suffering

Vikas Swarup is a prolific and astute author with a broad range of thought and creativity. Heis a fearless, inventive writer who aims to convey the st orey in a bold manner. In a broader sense, he attem pts to depict a universe of experience that is brimm ing with burning issues, problems, and concerns. He has a distinct theme and vision. All of his works are about contemporary sociocultural and political concerns, and they cover a wide range of topics. As Sw arup attempted to put his views and experiences in to his books, a number of themes arose and found express on in them.

The books of Vikas Swarup, which feature serious analyses of modern socio-cultural and political concerns, might be arranged in the following sequence. He began his career as a novelist with "Q&A" which he completed in sixty days while stationed in London. "Q&A" became a Comm. worldwide bestseller, selling over half a million."

copies. It was nominated for the Commonwealth Authors' Prize for Best First Book and won South Africa's Exclusive Books Grand Prize in 2006, as well as the Paris Book Fair's Reader's, The Prix Grand Open in 2007. It was voted the most popular book in Taiwan in 2008 and the winner of the Best Travel Product award in 2009. The book recording, read by Kerry Shale, received the award for Best Audiobook of the Year in 2005. It was well appreciated in India and a foreign nation, and it became a worldwide success, with translation rights sold in forty-three languages. As he said about his first creative writing,

"Q&A is a kaleidoscope of colossal, vibrant, chaotic, and enchanting India. It delineates the destiny of underprivileged youngsters visa-vis the destiny of India today. The Independent calls it "A beginner's guide to quintessential India" (qtd. in Swarup, "Six Suspects" blurb)

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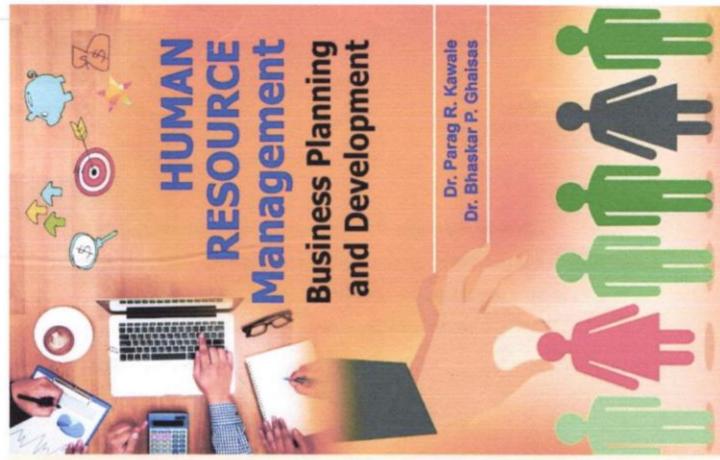
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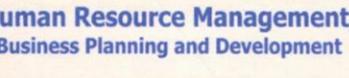


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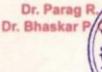
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### Introduction

Human Resources Development is a framework for the expansion of human capital within an organization or (in new approaches) a municipalty, region, or nation. Human Resources Development is a combination of Training and Education, in a broad context of adequate health and employment policies, that ensures the continual improvement and growth of both the individual, the organisation, and the national human resourcefulnes. Adam Smith states,"The capacities of individuals depended on their access to education". Human Resources Development is the medium that drives the process between training and learning in a broadly fostering environment. Human Resources Development is not a defined object, but a series of organised processes, "with a specific learning objective". Within a national context, it becomes a strategic approach to intersectoral linkages between health, education and employment.

Human Resources Development is the structure that allows for individual development, potentially satisfying the organization's, or the nation's goals. The development of the individual will benefit both the individual, the organization, or the nation and its citizens. In the corporate vision, the Human Resources Development framework views employees, as an asset to the enterprise whose value will be enhanced by development, "Its primary focus is on growth and employee

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### An Analytical Study of Institutional Infrastructure for Export Promotion: Issues and Implications

Prof. Dr. Siddhartha D. Nagdive Vidyabharti College, Seloo, Dist:-Wardha (MS)

#### Introduction

The structure of Indian exports is typical of a developing economy. India has traditionally been an exporter of agricultural raw material and manufactures based on agricultural raw material. There has been continues decline in the share of agricultural raw materials and allied products. One reason for the relative decline of food, beverages and tobacco in the total exports is the increase in population and consequent increase in domestics' consumption of these goods. Accordingly, the export surplus in many traditional commodities like Tea, has not been increasing as much as the Government would have wished. In this connection the growing importance of certain product, cashew kernels, coffee and rice. Vegetable and fruits are also growing in importance.

Since 1960, under the impact of industrialisation exports of non-traditional items are gaining in importance. These items consist of engineering goods, handicrafts, which include pearls, precious and semi-precious stones and jewellery, iron and steel, machinery and metal manufactures, chemicals, readymade garments, fish and fish preparations. These goods constitute about 70 per cent of Indian export. The fact that some of these non-traditional item's such as engineering goods, handicrafts, readymades etc. have established themselves in the markets of even the most advanced countries show that they would continue to be part of India's exports in the years to come.

India is now in a position to take advantages of both favourable demand situation and attractive price situation in international market. While some commodities have tremendous exports potentials e.g. handicrafts, engineering goods, ready-mades, sugar, jute, yarn and manufactures, iron and steel have fluctuated widely. With the announcement of the new agricultural policy emphasis is being given to boosting the export of agricultural products. Rice export is gaining importance besides this fruits and vegetables and processed foods are also becoming significant in our exports.

### The export promotion programmes Initiated by the Government

A Firm has to overcome several barriers in its process of internationalization. It, therefore, become necessary for an export manager to know about the institutional



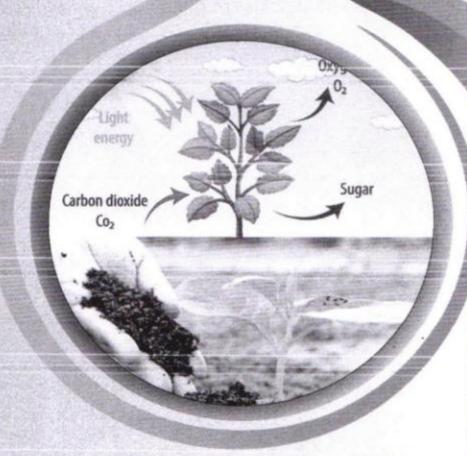
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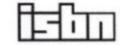
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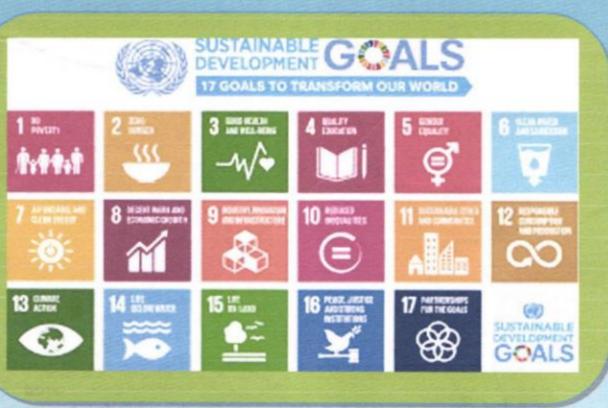
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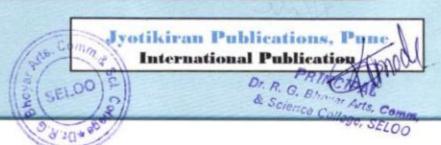
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## PRODUCT PROMOTIONAL PLANNING IN EVENT MANAGEMENT: CURRENT SCENARIO

Prof. Dr. Parag R. Kawale

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#### Abstract

Event management is a need in approximately any kind of business - entertainment, finance, government, retail, fashion, sport, music and so their day-to-day job can be filled with an enormous range of stimulating challenges and unique situations. So, the role of Event Management increases day by day. To find profit and to survive in the rivalry Event Management should change according to the requirements of the Market. Therefore, to convene the requirements of the market lots of trends are innovated in the market. The study on awful planning is destroying good planning is in management. This paper aims to study the challenges in event management and also to suggest some concept planning to deal with the crucial problem of managing and suggesting strategies for sustaining in disorderly times of Business.

Key Words: - Products, Event Management, Concept planning, Strategies, Promotional.

#### Introduction

Event management is the purpose of project management to the pattern and development of festivals, events and conferences, etc. Event management involves studying the particulars of the brand, identifying the object audience, devising the event conception, developing the logistics and coordinating the procedural aspects prior to essentially initiation the occasion. Post-event study and ensuring a revisit on speculation have become important drivers for the event industry. The recent expansion of festivals and events as an industry concerning the globe way that the management can no longer be ad hoc. Events and festivals, such as the immense

Games, have a huge collision on their communities and in some gear, the entire country. The diligence now includes events of each and every one size from the Olympics down to a banquet meeting for ten or more business people. Many industries, altruistic and interest groups will embrace events of some size to promote them, assemble business affairs, increase money or rejoice.

There are 5 Stages important in Event management.

- 1) Concept Planning
- 2) Research
- 3) Strategic Planning
- 4) Implementation 5) Evaluation

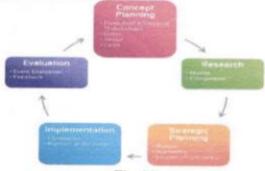


Fig. 01

- 1. Concepts of Event planning:
- A) Event Brief & proposal
- B) Event Stakeholder

- C) Event Dates
- D) Event Venue
- E) Event Budget/Cost

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PRINCIPAL

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# CHAPTER – 13 THE POST-PANDEMIC IMPACT OF SOCIAL MEDIA NETWORKING SITES ON THE LIVES OF STUDENTS IN INDIA

#### Dr. Parag R. Kawale

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#### Dr. Preeti W. Nanotkar

Assistant Professor, Dr. R.G. Bhoyar Art's, Commerce & Science College, Seloo Ta. Seloo, Dist, Wardha. (Maharashtra)

#### Abstract

Social media is integral for students and the people around the Universe to discuss their problems and suggest solutions. The fast growth of the internet and communication technology has made human beings quickly connect and interact with other groups of people. On other hand, Children are growing up with mobile devices and interactive social networking sites such as Facebook, Twitter, Blogs, Wikis, MySpace, YouTube, and Orkut which has prepared social media an essential portion of their life. In this paper author cover various aspects of social networking sites with their positive and negative effects, Review conducted by other peoples are also examined. Focus is on particular fields like health, education, society, and youth. In this article, the author presents the actual impact of the daily interactions of youth on social media.

Keywords: Social Media, College Students, Education, Social Networking Sites.

#### Introduction

Social media provides students with the capability to acquire additional valuable information; they attach with educational systems and further teaching groups that compose education suitable. It is very difficult to imagine a young generation who at least once a day did not check for updates on social networks and did not leaf through the news lines. The social network gets more opportunities for students and institutions to improve learning methods.

Today's world is a place where the personal connection is simplified by the various Platforms and channels available to us on the World Wide Web. School, College, and university students expend a lot additional of their instance on social media since there is an enormous amount of independence on these platforms. Students are liberated to do as

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F 7. G. Bhoyar Arts, Comm.

## Wellness Dr. Shashank G. Nikam

Director of Physical Education & Sports Dr. R. G. Bhoyar Arts, Commerce & Science College Seloo, Wardha (Maharasgtra) Email: shashanknikam2@gmail.com, Mob: 9049932199

Today, health is defined differently among experts, involving the whole person's relation to the total environment. Health encompasses the behavioural, social, and physical environments, policies and interventions, and access to quality health care. Wellness is more than simple physical health. We refer to wellness as an active process, a lifestyle, which reflects a positive quality of life. This wellness lifestyle emphasizes health-promoting behaviours such as daily physical activity, healthy eating, avoidance of harmful substances, and maintaining of healthy relationships. A lifestyle who acquires a good wellness enhances the overall health and well–being, which may increases ones live span, and provides a superior quality of life.

The assimilation of many different dimensions i.e. physical, physiological, psychological, emotional, spiritual and social that creates one's potential to live (quality of life) and work effectively and to make a significant contribution to society. Wellness reflects how one feds (a sense of well-being) about life, as well as one's ability to function effectively. Quality of life a term used to describe wellness an individual with quality of life requires a pleasant and supportive community.

## **Dimensions of Wellness**

Wellness can be given more importance than health, because it is the way of living happily. Wellness can be stated as conscious, inclusive, self – directed, evolving, holistic, positive and multidimensional nature. Wellness is fuelling your body, engaging your mind, and nurturing your spirit. Wellness is dynamic and continuous, therefore, no dimension of wellness functions are integrated and functioning harmoniously. Your environment (work, school, family, community) and your physical, physiological, psychological, emotional, intellectual, occupational, spiritual, as well as social dimensions of wellness are in every individual.

According to the different author's numbers of dimension are suggested differently some are given, five, six, even some suggested nine dimensions of wellness.

In this book author's suggested some important dimensions of wellness, which are as follows:

Social Wellness

Dr. R. G. Bhoyar Arts, Comm. & Science College, SELOO Through spiritual wellness one can realise the peace and harmony in his lives.

Intellectual Wellness: Intellectual wellness can be defined as the ability to express new ideas and experiences with open mind which can be applied to take personal decisions, group interaction and community betterment.

Occupational Wellness: Occupational wellness can be defined as the ability of an individual to enjoy at workplace. The individual who enjoy doing his work or at his workplace provides oneself personal satisfaction and life enrichment that is consistent with your values, goals, and lifestyle.

Environmental Wellness: Environmental wellness inspires everyone to understand the relation between people and environment or surroundings i.e. air, water, plants, chemicals, noise, earths, etc. As everyone knows that we are responsible for the surrounding or nature that how we nurture the surrounding which knowingly or unknowingly affect our health and well-being.

Physical Wellness: Physical wellness can be defined as the ability to maintain a healthy quality of life. Physical health helps us to perform or carry out the daily activities without undue fatigue or physical stress. Every individual should adopt the healthy habits like regular exercise, balanced diet, proper hygiene, routine check-ups, etc., and should avoid the destructive healthy habits like consumption of alcohol, tobacco, drugs, etc.

## Way to wellness

### Social

- The social aspect of wellness is to get involved in a variety of clubs and organizations both on and off campus in activities that interest you.
- Know when you're in an interrupted relationship.
- Balanced your academic responsibility and your social life.
- · Give time to your family and peer ones.
- Interact with people from other religions, cultures, and backgrounds to learn about diversity.

## **Emotional**

- Try to remain calm and quite even when difficulties arise.
- Find the thing that makes you feel less stressed, good management will help you to feel less stressed.

• Find a trustworthy person with whom you can freely express your feelings.

• Awareness of thoughts and forting

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#### AB-801

## "CYTOTOXIC STUDIES OF PLGA ENCAPSULATED ANNONA MURICATA EXTRACTS AS POTENT ANTICANCER COMPOUNDS"

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Department of Biochemistry, Dr.R.G Bhoyar Art , Commerce & Science College Seloo, Dist. Wardha Maharashtra, 442104, India.

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Department of Biochemistry, Dr. Ambedkar College, Deekshabhoomi, Nagpur 440010. Corresponding Author: Email- Surajadole18@gmail.com

#### ABSTRACT

Cancer is a complex disease in which cells in a particular tissue are no longer responsive to the signals with in the tissue that regulates the division of the cells which results into the rapid division of the cells and formation of solid mass. In this research we focus on the leave of Annona muricata has anti-cancerous properties by synthesized the PLGA encapsulated nanoparticle as shown the Cell imaging refers to observing the change in cell morphology after treating it with test compounds. For cell imaging MDA-MB 231 cells are used MDA-MB 231 cells are triple negative breast cancer cell, triple negative means that they lack estrogen receptor, progesterone receptor and human epidermal growth factor receptor. These cells are 'l' shaped initially when seeded into the plate. These test samples were added into the wells in variable concentration and plate was kept for incubation for one day after incubation images of cell were taken using inverted microscope. From this pictures it can easily see that the cells treated with Ethyl acetate extract has undergone apoptosis in larger quantity than the cells treated with neat ethyl acetate. Cell morphology of the Ethyl acetate extract cells is changing they have become round and are undergoing apoptosis. From these pictures we can conclude that this is most efficient in terminating cancer cells it is more effective.

Keywords: Cancer, Annona muricata

### AB-81]

## MICROSTRIP PATCH ANTENNA TO IMPROVE PERFORMANCE AND EMPHASIZE RESEARCH IN COMMUNICATION

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#### ABSTRACT

There have been many studies on microstrip patch antennas in recent years. Microstrip patch antennas have many advantages compared to conventional antennas. We get it from him Dual and circular polarization, Frequency Agility, broadband width flexibility, dual

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## AB-119]

## GREEN SYNTHESIS OF SELENIUM NANOPARTICALS FROM MORINGA LEAF AND ITS ANTIMICROBIAL ACTIVITY

P.K. Pantawane14, B. A. Mehere2, K. S. Gour3, V. S. Jedhe4, S. D. Adole5

<sup>1\*,2</sup> Dr. Ambedkar College, Deekshabhoomi, Nagpur, MS,India
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<sup>4</sup> Arts and Science College, Pulgaon, MS,India
<sup>5</sup> Vidhyabharti College, Seloo, MS,India
\* Corresponding author: pallavi.pantavne@gmail.com

#### ABSTRACT

Green nanotechnology is an emerging field fascinating researchers all over the world. Green synthesis is a reliable, sustainable, environmental friendly, pollutant free, simple, effective, cheap, rapid approach to synthesize metal nanoparticals which reduce harmful

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effect of commonly used traditional methods like chemical and physical methods. The present study involves synthesis of selenium nanoparticals from *Moringa oleifera* leaf extract. The synthesized SeNPs confirmed by UV-VIS spectrophotometer and characterized by FTIR, SEM and XRD. In this plant based selenium nanoparticals synthesis method Moringa leaf extract play important role as reducing as well as capping agent. Further antimicrobial analysis of synthesized copper nanoparticals shows antibacterial activity on *E.coli*, *S.aureus* and antifungal activity on *Candida albicans* using agar well diffusion method.

Keywords: Green Nanotechnology, reliable, sustainable, environmental friendly, nanoparticals, capping agent, antimicrobial

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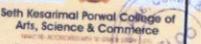


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#### AB-103]

## EVALUATION OF PHYTOEXTRACT OF LEUAS ASPERA AGAINST PHYTOPATHOGEN

V. S. Jedhe<sup>1\*</sup>, S. D. Adole<sup>2</sup>, A.Y. Dawande<sup>3</sup> P.K. Pantawane<sup>4</sup> and B. A. Mehere<sup>4</sup>

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#### ABSTRACT

A large portion of population from developing countries depends on the natural system of drugs for curing and preventing diseases. Many plant genera are used medicinally and plants are vital sources for potent and powerful drugs. The present study was conducted to screen the pharmacological activity extract of Leuas aspara for its antimicrobial activity against pathogenic fungi. Three different fungal isolates i.e. Aspergillus flavus, Penicillium notatum, Fusarium oxysporum and one bacteria Pseudomonas aeruginosa were tested for its antimicrobial activity. The collected leaf samples were powdered and the bioactive compounds were extracted. The antifungal activity was determined by using well diffusion method or by comparing the growth in the plate containing plant extract and the plate without plant extract. The inhibitory effect of ethanol extract was relatively high. Phytochemical analysis showed that the antimicrobial activity of leaf extract was due to the presence of phytochemical compounds like alkaloids, steroids, tripenoid, flavonoid, phenolic, triterpene compounds and tannins. This study also encourages cultivation of the highly valuable plant in large scale to extend the economic status of the cultivators and supply a support to use of the plant in traditional medicine. It also encourages forming the nanoparticles for various medicinal uses.

Keywords: Antifungal activity, Ethanol extract, Zone of inhibition, Phytochemical Compounds, Nanoparticles.

#### AB-104]

## PREDATORY BEHAVIOUR OF ANTS (FORMICIDAE) WITH RESPECT TO BIOLOGICAL CONTROL IN DIST. WARDHA, MAHARASHTRA INDIA.

Vaishali J. Badwaik

Department of Zoology, Dr. R. G. Bhoyar Arts, Commerce and Science College, Seloo,

Wardha 442 104, (M. S.) India.

Tel: +91-7350480025; E-mail: vaishalijbadwaik@gmail.com

#### ABSTRACT

Ants are scavengers and predators in several agricultural crop field. District wardflagger Arts, Comm, part of vidarbha region having incredible agricultural field. In the present study, the predatory behaviour of ants on pest of trop field in district wardha have been studied.

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Least, Nagpur & PGTD Mol.Bio & Gen.Engy, RTMNU, Ngp

## THE EFFECT OF CYMOXANIL 8% + MANCOZEB 64% WP ON THE LIVER OF BROILER (GALLUUS DOMESTICA)

S. M. Chavhan<sup>1</sup>, S. D. Adole<sup>2</sup> and V. S. Jedhe<sup>3</sup>

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Dr. R. G. Bhoyar Art and Science College, Pulgaon, Dist. Wardha, M. S., 442302, India

#### Abstract:

In agriculture the huge use of fungicide may lead to the several health issues. The research was performed to show the effect of cymoxanil 8% + Mancozeb 64% wp on serum and liver of the broiler. 1.5 Kg broiler birds was taken and they divided into four groups that are fed on the contaminated food grains with 2% Cymoaxanil 8% + Mancozeb 64% (w/w) of locally made powder called "Crizol". The control group contains no contamination. After 24 hrs the birds were sacrifice by decapitation and the liver extirpated. Analysis of liver serum reveled that the increase in the lipid concentration. Increase in serum cholesterol and triglyceride, significantly the level of the HDL and LDL.

Keywords: Cymoxanil + Mancozeb, Fungicide, Broiler, Biochemical effect, serum.

#### Introduction:

There is increase in the use of fungicide in the agriculture because of the several fungus diseases occurs in the crops (Ethelbert et al., 2017). In various agricultural and domestic use of fungicide is the source to introduce in environment. Use of fungicide leads to affect the humans and domestic animals. Biomagnification of the fungicides in the food chain causes several health issues in humans and animals (Ethelbert et al., 2012). Propensity of domestic poultry birds to pick up contaminated food from environment stands for a risk of poisoning (Ezeji et al., 2011). As all the fungicide the cymoxanil and mancozeb is also used to prevent fungal attacks on crops. The contact of these fungicides could be resulting in death due to coronary disease. This study reveled that the toxicological effect of cymoxanil and mancozeb on broiler using some biological biomarkers (Ethelbert et al., 2017).

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**English Language Teaching** and Learning in the Present Context: Issues, Practices and Challenges



**Guest Editors** 

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## The competence and limitation of English Language Teaching: Methods and Techniques in Indian Classroom.

Dr. Vaibhao Bhumesh Pimpale

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Abstract:

Methods and techniques for English language teaching have shed insight on particular philosophy of linguistic learning and preparation. Up till now, there have been brainstorming debates regarding their utility and applicability. To have a sound understanding and preparation for future usage of English language teaching, this research article analyses the competence and limitation in the field of English language teaching, some of prominent approaches and techniques as the Communicative English Language Teaching approach, traditional Grammar-translation approach, Direct English Language Teaching approach, and bi-lingual English Language Teaching approach in the Indian classroom.

Keywords: English language teaching methods and techniques; limitation; competence.

#### 1. Introduction

In the Indian classroom, teaching of English language has an extensive, enthralling, but somewhat contentious legacy in which a question about English language teaching methodology or techniques has primarily engaged over the previous hundred years in the Indian classroom. The various predominant or used techniques or methods of English language teaching in the classroom are the Communicative Teaching Method, Bi-lingual Method, Direct Method, Grammar-translation Method, etc. These are mostly used methods or practices while English teaching in the classroom because a method is more than a single approach or methodology, however ill-defined it may be. These methods arose largely from social, economic, political, or educational contexts, probably in part from contextual understanding (novel variations in English dialectical concepts and behavioural components insights on reading comprehension), and partly from actual skills, empiricism, and creativeness as part of language analytical frameworks. In short, ultimately they characterize complex principles of English language teaching towards various degrees, although it is apparent that they are distinguished by a compulsive focus on specific features as the fundamental problem of language learning and teaching in English in the Indian classroom.

2. Limitations and Efficiency Approaches and Techniques of English Language Teaching in the Indian Classroom.

2.1 Communicative Teaching Approach of English Language Teaching

The communicative mechanism was proposed in English language teaching under the influence of British applied linguists (such as John Firth and M. A. K. Halliday, who stressed language's functional and communicative potential), sociolinguistics (Dell Hyms and W. Labov), and some philosophy (J. Austin and J. Searle). It recognised the need of emphasizing language proficiency above structural mastery.

This constructivist English teaching technique attempts to make communication skills as the primary intention of teaching English and provides English language teaching processes for the basic linguistic practises that recognise the connection of verbal and nonverbal communiqué. It encourages activitées that appears it authentic correspondence and the accomplishment of essential activitées. It then so that learning English is dependent on thanks.

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understanding. To use such strategies efficiently and successfully in practice of English language teaching, specialists ought to believe the subsequent interrogation: who the students are, what their existing ability to acquire expertise in foreign tongue is, what sorts of tongue having interest to learn, and in which conditions they want to use the English language in the future perspective, and so forth. In a nutshell, no any particular approach can ensure success in the scenario of teaching the English language in the Indian classroom.

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## Patriotism in World's Literature in English



### Editors

Dr. Rupesh P. Rede

Dr. Rajesh G. Maske

Dr. Manohar A. Wasnik



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## Patriotism in World's Literature in English

Dr Rupesh Prakash Rede

Dr. Rajesh G. Maske

Dr. Manohar A. Wasnik

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PREFACE

On the great occasion of 75th year of India's Independence Day, it is really a matter of pride and great pleasure for us to write a preface to the edited book "Patriotism in World's Literature in English"

George Orwell, in his famous essayNotes on Nationalism, distinguished patriotism from the related concept of nationalism by saying...

"By 'patriotism' I mean devotion to a particular place and a particular way of life, which one believes to be the best in the world but has no wish to force upon other people. Patriotism is of its nature defensive, both militarily and culturally. Nationalism, on the other hand, is inseparable from the desire for power."

The abiding purpose of every nationalist is to secure more power and more prestige, not for himself but for the nation or other unit in which he has chosen to sink his own individuality.

Several surveys have tried to measure patriotism for various reasons, such as Correlate of War project which found some correlation between war propensity and patriotism. The results from different studies are time dependent. For example, patriotism in Germany before World War I ranked at or near the top, whereas today it ranks at or near the bottom of Patriotism survey.

An excess of patriotism in the defense of a nation is called chauvinism; another related term is jingoism.

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Various academicians and research scholars have contributed their research papers in this chapter in book. They have taken great efforts to give justice to their topics. It means they have highlighted different perspectives of the same issue in their own way. It will open vistas in this domain and widen the scope of the study. The book may also be helpful to the new researchers and the learners of the topic to improve their thinking potential.

The present study beams the imprint of many intellectuals who have directly or indirectly made a significant contribution to its completion. First and foremost is the management of the three colleges for their continuous inspiration and moral support. Then last but not the least all the honorable Principals who gave their kind and helpful hand and guided us at every step without the work could not have been completed.

Dr Rupesh Prakash Rede

Dr. Rajesh G. Maske

Dr. Manohar A. Wasnik

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Class Identity: A Marxist Re-reading of Vikas Swarup's Six Suspects Dr. VAIBHAO BHUMESH PIMPALE **Head & Assistant Professor** 

Department of English Dr. R. G. Bhoyar ACS College, Seloo

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### Abstract:

Vikas Swarup is a well-known modern Indian English writer who rose to international prominence after winning several prizes for his debut novel Q&A (2005). Six Suspects (2008) Swarup's second novel, has received a lot of positive feedback from critics. In his second work, he slammed India's current governmental and societal corruption, as well as economic injustice. Six Suspects offers a sophisticated plot in which one of the six protagonists achieves economic freedom through shady methods. The class identity of a society that abuses the underprivileged at many levels is examined in this study. Munna Mobile, who represents the imposerished in this tale, lives in a slum outside Delhi with his mother and blind sister. Projects him as an infamous guy known for stealing cell phones, who has a lot of goals and is a firm believer in getting money since he believes that money always gives him the power to have overything. Munna Mobile comes from a poor household and has had to face several obstacles before settling down in life. So through this paper tries to examine, how Marxism approach shows class identity consciousness in Viaks Swarup's Six Suspects.

### Introduction:

Marxism holds that current societal class divisions are artificial and that they are utilised to oppress those in the under classes. Raman Selden, in his book A Reader's Guide to Contemporary Literary Theory briefs this principle of Marxism as follows: "People have been led to believe that their ideas, their cultural life, their legal systems, and their religions were the creations of human and divine reason, which should be regarded as the unquestioned guides to human life. Marx reverses this formulation and argues that all mental (ideological) systems are the products of real social and economic existence" (23). True, in the guise of caste, religion, and economy, an illusory wall is erected around the subjugated.

The struggle for survival makes the poor people forget even their family and everyday life. Through day to day life, poor people hardly fulfil their andamental needs. They have no economical, social or political rights to

think beyond that. Their inner consciousness always deprived by the rich consciousness. In that concern, all novels of Vikas Swarup find plenty of incidents to have class conflict and identity.

#### About Author:

Vikas Swarup, a successful diplomat, has earned a name for himself via his writing. He has received several journalistic and literary honours, as well as a global reputation as a prolific writer of three novels, books, short stories, newspaper and magazine pieces, and book reviews in a wide variety of periodicals. Swarup's Q&A reveals that the protagonist is from the ghetto and has never been a father. Indians have a strong belief in fate as part of their culture. The tales are developed in an innovative structure About Novel:

Six Suspects, Vikas Swarup's second novel, was released in 2008 and is a criminal thriller. He depicted it as a murder mystery explored via the life structures of a murder victim. This novel paints a colourful picture of modern India. It tells about the many divisions of national culture. It depicts a crooked governmental system that has subtle but major flaws. It dissects and condemns the corrupt governmental bureaucratic system, as well as the general public's displeasure with misconduct. It alludes to a have-not revolt that would eventually destroy constitutional frameworks. Swarup emphasises several issues in Six Suspects, including slums, poverty, and the difference between wealthy and poor, unemployment, begging, and so on, through Munna, one of the suspects in Vicky's Analysis Novel:

The first issue that Swarup addresses is the plight of slum dwellers in Indian cities. Indian cities gleam with high-rise palaces of the wealthy, yet there are also filthy slums hidden beneath these sky-touching structures, tarnishing the splendour of metropolitan India. These slum inhabitants are in deplorable circumstances, and they are little better than animals. As Munna says:

"We lived in the Sanjay Gandhi slum in a makeshift hut made with corrugated metal sheets. We had no electricity and no water. Mother cooked with cow-dung patties on a mud hearth which used to fill the entire hut with smoke and make my eyes water. Now we have a pukka one-and-a half room house, with a paved brick fireplace, a ceiling fan and even cable TV (Which I have siphoned off the temples connection) of

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their parents would object because they were from different castes. They consider eloping as an option, so they construct a marriage plan. Vicky Rai issued a threat to Munna. He says, "Listen to me carefully. My name is Vicky Rai. And you have dared to raise your eyes to my sister Ritu. Now I will carve you up like a pig, I will break every bone in your body and then I will feed your carcass to my dogs. Get it." (SS 218) Munna and Ritu were often threatened, but they were in love and didn't care about the repercussions. They had no choice but to elope. They make arrangements to flee, deciding to travel to Mumbai, which they believe is a safe haven for them. Ritu informs Munna that her brother, Vicky Rai, is throwing a big party on March 23 to celebrate his exoneration. She'll Thisking a way to get out of the homestead house, where there will be roughly 300 people. She claims she'll emerge at 11 p.m. at the entry gate, where she'll meet Munna, and the two of them will take a cab to Mumbai. Muhna's mother, on the other hand, was terrified when she learned of their elopement plans since she despises Jagannath Rai's family. She is aware of that family's heinous acts. In front of Munna, she reveals the secret. After hearing of his father's murder, Munna was consumed by a vengeful rage. He also desired vengeance for Ritu's misery as Vicky Rai, whom he and his father tormented. Unfortunately, several hoodlums showed up at his house that night and snatched the briefcase of cash he discovered in a trash can. Brijesh, who was a well-known smuggler, was the owner of the suitcase. Munna couldn't elope since her briefcase had been taken. One thought persisted in his thoughts at all times, and that was "revenge." When the thugs arrived to collect their money back, they raped Champi, his blind sister, right in front of his eyes. This episode demonstrates slum dwellers' powerlessness, as their sisters and mothers are raped in front of their eyes, and they are forced to remain silent because they are weak and powerless. Unfortunately, this is the true face of metropolitan India.

In "Six Suspects," Swarup also addresses the issue of unemployment. Munna began his profession as a mobile thief alongside his friend Lallan to unemployment, earning the nickname Munna Mobile. For a period, he worked as a family servant for Mr Dinesh Pratap Bhusiya. Despite this, he was unable to survive for an extended period of time. In the piece, the author depicts the tense connection that exists in propolitan culture between servants and bosses. Because servants are frequently exploited by their bosses and do not receive fair salaries, they seek vengeance.

#### Conclusion:

Vikas Swarup poses a serious inquiry concerning the possibility of a shift in the current social order. As a societal watcher, he appears gloomy about a probable rebound. As a result, Swarup highlights the various oppressive forces that further segregate individuals caste based, religion, and economics. In addition, the author cautions that if quick attention is not paid to the current class separation, economic injustice, political persecution, and judiciary failure, societal upheaval may result. As a result, a Marxist re-reading of Swarup's novel Six Suspects based on class identification may be found in Six Suspects.

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## BIOINSPIRED SYNTHESIS OF METALLIC NANOPARTICLES AND APPLICATIONS

Vaishali J. Badwaik

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#### Abstract:

Bioinspired synthesis of metallic nanoparticles is an eye-catching approach towards green nanotechnology. Metallic nanoparticles and their synthesis have significantly increased, but involvements of toxic chemicals and energy requirement limits the alternative synthesis of nanoparticles (NPs). Whereas, a recent approach to synthesize nanoparticles from the microorganisms and plants have evolved greatly, as most of the biological entities are structurally similar to the nanomaterials (NMs). The NMs are very useful in various in vivo and in vitro biomedical research and applications, thus, the synthesis of those are in high demand. This chapter summarized the green synthesis of nanoparticles, its eco-friendly approach, along with antioxidant, antimicrobial, therapeutic and diagnostic applications.

Keywords: Green synthesis, Metallic Nanoparticles, Antimicrobial, Diagnostic Applications

#### Introduction:

Nanobiotechnology is a biology-based, application-oriented frontier field of a hybrid research of nanoscience and biotechnology disciplines. The nanobiotechnology has become an attractive focus in current green research towards sustainable development, but its simultaneous adverse impact needs to be studied on the same side. The various metal nanoparticles, synthesised by chemical and physical method have shown antimicrobial properties, include silver nanoparticles (AgNPs) (Duran et al., 2007; Guzman et al., 2009; Guzman et al., 2012). Growth of Gram-positive and Gram-negative bacteria could be effectively inhibited by silver and gold nanoparticles (Lima et al., 2013). Due to the optical property gold nanoparticles (AuNPs) have been used as photothermal agents for the thermal ablation of solid tumors. Gold nanorods (GNs) have also shown promising results in biosensing, drug delivery, photothermal therapy and imaging (Krishnaraj et al., 2010).

In cancer therapy, ruthenium play a very important role as an anticancer agent, as it has the ability to cause apoptosis of tumor cell (Sava and Bergamo, 2009; Ang and Dyson, 2006).

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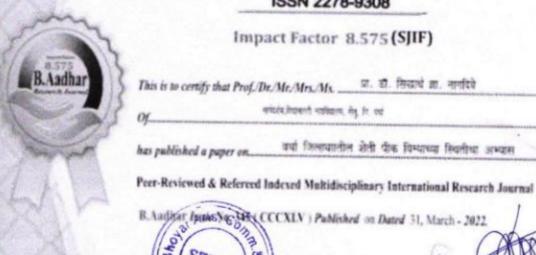
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वर्धा जिल्ह्यातील शेती पीक विम्याच्या स्थितीचा अभ्यास नितीन दा. गायकवाड संशोधक, विद्याभारती महाविधालय, संख्, जि. वर्षा प्रा. डॉ. सिदार्थ जा. नागदिवे मार्गदर्शक,विद्याभारती मार्गविद्यालय, सेल्, जि. वर्धा

गांचभारा

भारतामध्ये पीक विमा योजना छापु करण्यांनी सूचना स्वातंत्र्यपूर्व काळात करण्यात आछी. मात्र स्वातंत्र्यानंतर प्राप्तीनंतर लगेच पीक विम्याच्या कामास सरवात ज्ञाली, पीक विमाविषयी संसदेमध्ये सन १९४७ ला चर्चा करण्यात आली. १९४८ मध्ये भारत सरकारच्या कृषी मंत्रालयाद्वारे भारतातील पशु विमा व कृषी विमा स्थितीचा अध्यास करण्यासाठी श्री. जी. एस. प्रियोलकर यांचा नियुक्त करण्यात आले. त्यांनी आपला आह्याल १९४९ मध्ये दिला. त्यांच्या आह्यालानुसार पायलट पीक विमा योजना सर्व राज्यासाठी सुर करण्यासाठी सुथना देण्यात आही. यानंतर सन १९६५ मध्ये भारत सरकारने एक पीक विमा विशेषक संसदेत मांडले आणि एक मॉडल पीक विमा योजना सर केली, परंतु राज्यांनी आर्थिक कारणामुळे त्या योजनेस नाकारले. सन १९७२-७३ पासून मर्यादित स्वरुपात पीक विमा योजना भारतीय जीवन विमा मारामंडळाच्या सर्व साधारण विमा विभागान ४४ कापसाच्या जातीसाठी एक पीक विमा योजना सुरु केली. ही योजना सन १९७८-७९ पर्यंत देशात सुर होती. खरीप १९७९ पासून पायल्ड पीक विमा योजना प्रायोगिक गत्वावर सुर करण्यात आली. पायलट पीक विमा योजना ही १९८५ पर्यंत चालु होती. यानंतर १९८५ पासून व्यापक पीक विमा योजना सुर करण्यात आली. सदर संशोधन पेपरमध्ये वर्धा जिल्ह्यातील शेती पीक विष्याच्या स्थितीचा अध्यास करण्यात आहेत्य आहे.

बीजराज्य - मुद्रा, विमा, शेली, पशुपालन, अन्तरधन्य व रोजशार,

भारत देशातील मुख्य व्यवसाय कृषी हा आहे. भारतीय कुटुंपाचे उदरिवर्शहाचे सर्वात महत्वाचा व्यवसाय शेती हा आहे. कृषी क्षेत्रामध्ये शेती बरोबरच पशुपालन हा जोड व्यवसाय महणून केला जातो. भारतातील कृषी उत्पादनाचा सकल दंशीय उत्पादनातील १६ टक्के हिस्सा हा कृषी क्षेत्राचा आहे. भारतातील ६० टक्के जमीन लागवडी योग्य आहे. जगातील एक्टम लागवडीखालील क्षेत्रापैकी भारतीय लागवडीम्बालील क्षेत्राचा दुसरा क्रमांक लागती. सकल देशीय उत्पादनाचा कृषी क्षेत्राचा हिस्सा कभी होत असतांना दिसून येत आहे. परंतु कृषी देशातील अर्थस्यक्रमेचा मुख्य चटक आहे. भारत देशात मोठ्या प्रमाणात खाद्यान, तेलबीया, दाळी, उत्पादन केल्या जातात, परंतु त्यामध्ये मोठा हिस्सा ६२६ करोड क्लेकांच्या परेलु उपभोगासाठी बापरका जातो. भारत देशातून अधिशय पान्य व कृषी उत्पादन निर्यात केले जाते. भारत देशासून मोठ्या प्रमाणात कृषी उत्पादन ज्युट, यहा, तंबाखु, काँची, मस्ताले, साखर इ. निर्यात केले जातात. त्यामुळे बिदेशी मुद्रा वावण्यास गदत तीते. भारताचा क्षी उत्पादनाच्या निर्यातीबाबन जगात ७ वा क्रमांक त्यागतो.

व्यापक पीक विमा योजनेमधील समस्या आणि त्यामध्ये असणाऱ्या स्थारणेच्या संधीतृत भारत सरकारने १९९८-१९९९ च्या अर्थसंकरपात निषत गोक विमा योजनेची घोषणा केली. मानतीय प्रधानमंत्री यांनी २२ जून १९९९ रोजी राष्ट्रीय कृषी बिमा योजनंत्री पोषणा करून शेती उत्पादनाच्या जोखिम व्यवस्थापन इतिहासात एक नविन अध्याप जोडून ही योजना देशाचा समर्गित केली.

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१९९९-२००० स्या रुखो हंगामापासून विद्यमान व्यापक पीक विमा योजनेने विराजन करन राष्ट्रीय कृषी विमा योजना भारत सरकारने १६ जुलै १९९९ रोजी शासकीय अध्यादेश कातून या योजनेशी आंगलबनावणी सुर केली.

संशोधनाची उदिख्या

१)णासनाच्या गीक विमा याजनेत्रं कृत्ये विकासमीति माले जाणून पेणे.

२)शासनाच्या योक विमा योजनुना समितन अभ्यास हरूणे.

जागतिक स्तरावरों पोक विश्व स्वाप्ता ना कोलांच्या ज्यापता जिक विश्व योजना चालू आहेत. पीक कार्यात्वर कोलांच्या ना कोलांच्या ज्यापता ज्ञापता कर्या विश्व योजना चालू आहेत. पीक किर्मा योजना कर्या विश्व विश्व क्ष्मांच्या ज्ञापता कर्या विश्व योजना कर्या विश्व विश्व क्ष्मांच्या विश्व योजना कर्या विश्व क्ष्मांच्या कर्या विश्व क्ष्मांच्या विश्व विश्व क्ष्मांच्या विश्व योजना कर्या विश्व क्ष्मांच्या विश्व क्ष्मांच्या विश्व क्ष्मांच्या विश्व क्ष्मांच्या विश्व विश्व क्ष्मांच्या विश्व विश्व क्ष्मांच्या विश्व क्ष्मांच्या विश्व क्षमांच्या क्षमांच्या विश्व क्या क्षमांच्या विश्व क्षमांच क्षमांच्या विश्व क्षमांच क्षमांच क्षमांच क्षमांच्या विश्व क्षमांच क्षमांच क्षमांच क्षमांच क्षमांच्या विश्व क्षमांच्या विश्व क्षमांच क्षमा सन १९२० मध्ये सुर करण्यान कार्या, या दुर्गान संबे १९७० पर्यंत्र वेगवंत्रक्या विमा मोतना लागू केल्या. स्पेन मध्ये सार्वजनिक क्षेत्र व ब्याजनी क्षेत्रहोन्द्र नगागंतीवर विमा योजना लाग् केली गेली. या

& Science College, SELOO

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यशोधनाची उदिष्टचे

१)शासनाच्या पीक विमा योजनेचे कृषी विकासातील मात्व जाणून येण.

ज्यासमारक गीक विमा योजनांना सविद्या अस्त्रका प्रत्ये

जागतिक रतरावरील पीक विमा योजना

जापतिक स्तरावर कोणस्या ना कोणस्या स्थवन्यात गीक विभा योजना चात् आहेत. गीक विम्यामध्ये रशिया, जपान, अमेरिका हे देश प्रामुख्याने अप्रेसर आहेत. रपेन देशात क्यी विमा योजना सन १९२० मध्ये सुर करण्यात आली. या देशात सन १९७० पर्यंत वेगवंगळ्या विधा योजना लागू फेल्या. रपेन मध्ये सार्वजनिक क्षेत्र व खाजपी क्षेत्रतील गुंतागृंतीवर विमा योजना लागू केली गेली. या पद्धनीमध्ये शेवकरी व्यक्तिगत किंवा सरकारी संस्था आणि व्यवसायिक संपटनांद्रारे पीक विभा योजना पेक राकते. यामधील सहभाग ऐस्लिक स्वरूपाणा असलो. रशियामध्ये गीक विव मोजना सन १९२३ पासून अमलात आली. सन १९२९ मध्ये दक्षिण आक्रिकेमध्ये शेतकरी समुदाने एक मंडळ स्थापन करून पीक विमा युर करण्यात आला. या पीक विमा योजनेत अनेक जोखभीचा समावेश करण्यात आला आहे. नैसर्गिक/प्राकृतिक, मानवनिर्मित इ. जोखमेचा समावेश केळा गेळा आहे.

संयुक्त राज्य अमेरिकंमध्ये सन १९३८ मध्ये संपराज्य गीक विमा योजना अचिनियम मंजूर करण्यात येऊन संपराज्य पीक विमा महामंडळाची स्थापना करण्यात आठी. या महामंडळामार्फत शेती उत्पादनातील आर्थिक संकटापासून रोतकप्यांने संरक्षण केरूया जाते. जपानमध्ये पीक विमा योजनेची सुरुवात सन १९४१ मध्ये करण्यात आली होती. जपानमध्ये सर्व पीकासाडी अनिवार्य स्वरुपाचा पीक विमा योजना आहे. त्यामळे तेविल काही प्रदेशामध्ये संकटाचा प्रभाव झाल्यास त्या क्षेत्रांना मोडी महत करणे शक्य होते. फिलीपाईना रेशामध्ये पीक विमा योजनेची अंगलबजावणी सन १९७८ मध्ये रथापन केलेल्या फिलोपाईना पीक विमा महामंडळमार्फन केली जाते. श्रीलंका या देलात सर्वप्रथम १९५८ मध्ये प्रायोगिक पीक विमा योजना पायलट स्वरुपान फक्त भागाच्या पीकासाडी सुरु केली. वंतर पीक विमा योजवेत इतर पीकासाठी विमा संस्थाण देण्यान आले.

शंती व्यवसायाचे महत्व भारतामध्ये पुरातन काळापासून व आजारी कृषी क्षेत्राचा अनन्य साधारण महत्व आहे. कारण भारताची रांपूर्ण अर्थव्यवस्थाच कृषीवर आधारीत आहे. अर्थव्यवस्थेचा कथा म्हणजे कथी असे महते जाते. राष्ट्रीय जग्यन्तात भारतामध्ये शेती व इतर प्राथमिक व्यवसायात्त्व मिळणाग हिस्सा सव १९७५-७६ मध्ये ४३.०१ टक्के इतका होता. नैसर्गिक आपली माणजे अवर्षण, दुष्काळ, अतिवर्षण यामुळे रोती उत्पादनात चवजतार दिसतात. तरीही रोती हा राष्ट्रीय उत्पनाचा सर्वात प्रमुख खांत आहे. प्रमत राष्ट्रात एकण राष्ट्रीय उत्पन्नातील बाटा २ ते ६ टक्क्यादरम्यान आवळतो. इंग्लंडमध्ये शेतीचा राष्ट्रीय उत्पन्नातील कृषी बाटा ३.१ टक्के तर अमेरिकेत तो ३.२ टक्के, ऑस्ट्रेलियामध्ये हे प्रमाण ७. ६ टक्के इनके आहे. भारतान आजही राष्ट्रीय उत्पन्नातील कुबी क्षेत्राचा बाहा १४ ते १६ टक्क्यादरम्यान आहे. सन २०१०--११ मध्ये १४.२ टक्के इतका होता. २०१४--१५ मध्ये हा बाटा १७.४ टक्के इतका होता. माणजेप कृषी क्षेत्र देशाच्या अर्थव्यवस्थेत महत्वपूर्ण धूमिका बजाबते. या क्षेत्राचे महत्त्व पुढीलप्रमाणे.

१) चारतासारख्या अतिरिक्त कोकसंख्येका अन्तर्धान्याची उपक्रवाता शेतीमधूनच होते.

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२)भारताच्या संपूर्ण औद्योगिक क्षेत्रासाडी रहागणाय मोद्रशा प्रमाणात करणा यात हा रोतीयधूनच निर्मित

अव्यविक रोजगार निर्मिती क्षेत्र माणून कृषीकडे गाहिछे जाते.

x)भारताच्या राष्ट्रीय उत्पन्नात पूर्वी ४५ डक्के बाडा तर आजही २७ डक्के बाडा हा कृषी क्षेत्राचा

देशातील विस्तृत वाजारपंदांचे अस्तित्व कृषी क्षेत्रावर आधारीत आहे.

६) भांडवल निर्मिनीसाठी अधिकने क्यों क्षेत्राण बाटा दिसून येता.

भारताच्या निर्यालित कुन्ने कवाचा क्यर मोठा नाटा दिस्न यंता.

८)भारतीय लोकराक्ष्मीकी ५२ डक्क प्रत्येश व २५ डक्क अप्रत्येश लोक या शेवावर अवलंबन

पारतीय अर्थवारामा अर्थिक पहिनानं श्रेष्णवासाठी कृती क्षेत्राची सर्वाधिक पदत राते.

१०)दशाच्या अधिक विकासात कृषी क्रेमजी विशेष महत्व आहे.

११)भारत देशाती है पुरुषिश्ण संतुलनामुखी कृषी क्षेत्राची महत्वाची कार्यांची आहे.

Dr. R. G. Bhoyar Arts, Comm.

त देशानीक प्रमुख्या प्रमुख्यानाम् कृता जना । जना क्षेत्राचेत्र विकासम्बद्धाः सेनातील काती राष्ट विकासाच्या अति उल्प शिखरापर्यंत गोहपल्क Science College, SELOO

१७.४ टक्के इतका होता. माणजेच कृषी क्षेत्र देशाच्या अर्थव्यवस्थेत महत्त्वपूर्ण चूमिका बजावते. या क्षेत्राण महत्त्व पत्तीलप्रमाणे

१) भारतासारख्या अतिरिक्त कोकसंख्येका अन्नभान्याची उपक्रभता शेतीमभूनय होते.

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- २)भारताच्या संपूर्ण औद्योगिक खेक्सादी जागणास मोद्या प्रमाणात करणा माल हा शेतीमधूनच निर्मित
- अर्वाधिक रोजगर निर्मिती क्षेत्र माणून कृषीकडे पाहिले आते.
- x)भारताच्या राष्ट्रीय उत्पन्नात पूर्वी ४५ टक्के बाटा तर आजही २७ टक्के बाटा हा कृषी क्षेत्राचा
- ५)देशानील विस्तृत बाजारपेठांचे अस्तित्व कृषी क्षेत्रावर आधारीत आहे.
- ६)भाइबल निर्मितीसाठी अलिकडे कृषी क्षेत्राचा बाता दिखन येता.
- भारताच्या निर्यातीत कृषी क्षेत्राचा चार मोठा चाटा दिस्व येता.
- ८)भारतीय लोकसंख्येपैकी ७२ टक्के प्रत्यक्ष व २५ टक्के अप्रत्यक्ष लोक या क्षेत्रका अवालंबन
- ९)भारतीय अर्थव्यवस्था अधिक गतिमान होण्यासाठी कृती क्षेत्राची सर्वाधिक मदत होते.
- १०)देशाच्या आर्विक विकासात कृषी क्षेत्राचा विशेष मात्रव आरे.
- ११)भारत टेशातील पर्यांबरण संतुलनासाठी कृषी क्षेत्राची महत्वाची कामगिरी आहे.

शंती क्षेत्राच्या विकासावस्य जगातील काही राष्ट्र विकासाच्या अति उच्य शिखरापर्यंत पोहचले आरंत. इंग्लंड, जर्मनी, जपान व रशिया इत्यादी देशांच्या विकासामध्ये शेती क्षेत्राने मात्वाची भूमिका वजावून जारत विकासासाठी सदस आधार निर्माण कंत्रा आहे. वर्धा जिल्ह्यातील होती व समस्या

महाराष्ट्र राज्याची निर्मिती सन १९६० मध्ये झाठी तेव्हापासून वर्षा हा महाराष्ट्राच्या विदर्श विभागातील एक मागास जिल्हा असून क्योबर विसंबन असमान्या मेतकऱ्यांचे प्रमाण 🛰 तक्ये आहे. नैसर्विक आपदामुळे शेती उत्पादनात अनिश्चितता आहेत. येथे शेती उत्पादनातील अनिश्चितता दूर करण्यासाडी पीक विमा योजनेची आवश्यकता आहे. या डिकाणी पडणाऱ्या पावसाणे प्रमाण खुपन कमी असून येथिक शेती ही पूर्णपणे निसर्गविर आवलंबून आहे. शेतकन्यांकडे शेतीत सुधारणा करण्यासाठी पूरमें भोड़बाद नाते. भोड़बादासाठी त्याचा खाजनी सावकाराकडे जांचे त्याने. त्याच कर्जांगी परतफंड करण्यासाठी त्यास काही जमीन विकामी छापते, अज्ञा परिस्थतीत पुतील हंगामातील बीज, खते, किटकनाराके पेण्यासाठी सुद्धा त्याच्याकडे पुरेसे आर्थिक पाठबळ नसते. यासाठी पीक विमा योजना एक बरदान उरत. पीक विमा योजना शेली उत्पादनातील लेखिम कभी करण्याचे कत्म करत आहे. ग्रामीण भागातील समस्यांचे निराकरण करन त्यावरील उपाययोजना या विविध सहकारी योजनाह्यार केल्या आतंत. परंतु प्रत्यक्षात या योजनेत लाचार्यी व योजनेतील अंगलयजावणीत अरचणी आएंत

राष्ट्रीय पीक विमा योजनेची भूमिका

भारतातील क्यो उत्पादन आणि उत्पन्न बातंक प्राकृतिक आपदा माणजेप दुष्काळ, पुर, पक्रीबाटळ, बाटळ, अपसय आणि भूकंप यावर अवल्डपून आहे. तसेच काही मानव निर्मित आपदा सदा आरंत, जसे, आव, बनावर बीज विक्रो, खले व फिटकनाशके, किमल युद्ध इत्यादी हे सर्व रोतकऱ्यांच्या कृषी उत्पादन आणि उत्पन्न कमी करण्यावर प्रभाव टाकतात आणि एक्णय ह शंतकायांची नियंत्रण (मर्वादा) टाकतात. उत्पन्नातील अनिश्चितंत्र्यं शेतकरी शेतीमध्यं निवन सुधारणा कर शकत नातीत. शेतकरी आपल्या आर्थिक गरवाची पूर्वता करण्यासाडी कर्ज चेकन कळत नकळत सावकारी कर्जांच्या विळक्षपात अडकतो. म्हणून भारतीय शेतकऱ्यांच्या कर्ज विषयक जीवनाविषयी "भारतीय शेनकरी कर्जात जन्मती, कर्जात जगती, आणि कर्जात मरतो," असे वर्णन केले आहे. या

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स्थितीतून शेतक-यांची सुटक्क करण्यासाठी शेतक-यांचा मदत करण्याच्या हेतृते भारतात पीक विभा योजना लागू करण्याची भरत भाग लागली.

रोती व्यवसायांवर, नेप्प्रतिक बेट्ळाचा मोठ्या प्रमाणात परिणाम तोतो. अविक्रियतंगळ रातांच्या उत्पादनामध्ये अनिष्यिद्देश येते. भारतीय श्रांती मान्युनया जुगार आहे. महापुर, दुख्याळ, अतिवृच्छी, आग, बादळ, रोग्यं ज्यादी विष्ट्रकामा जैती अचादनावर प्रभाव पडतो. बचाय वेळा रोतकचाचे मोडण प्रमाणात नुक्सान होते. काही बळा रोलक्सी आणल्या उत्पादनाचा खर्च भरून काह राकत नाही त्यामुळे रोतीतील अपेटन आणि उत्पादनात अनिश्चितता होते. असा बळेस रोतकरी आर्थिक सरनेची THE BE WIT

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राष्ट्रीय चीचा विका योजनेची अधिका

भारतातील कृषी जत्पादन आणि उत्पन्न बहुतंक प्राकृतिक आपदा म्हणजेम द्रश्वाळ, पूर, चक्रीबारळ, बादळ, अपश्चय आणि भूकंप यावर अवलंबून आहे. तसेच काही मानव निर्मत आपटा रादा आहेत, जसे, आग, बनावट बीज विक्री, खते व किटकनाराके, किंमत युद्ध इत्यादी हे सर्व शंतकच्यांच्या कृषी उत्पादन आणि उत्पन्न कभी करण्यावर प्रभाव टाकतात आणि एक्श्य ह शंतक-यांवी नियंत्रण (मर्यादा) द्वाकतात, उत्पन्नातील अनिश्चितमुळे शंतकरी शंतीमध्ये नविन स्थारणा कर राकत नातीत. रोतकरी आपल्या आर्थिक परजाची पूर्वता करण्यासाढी कर्ज घेकन कळत नकळत रावकारी कर्जाच्या विज्ञकृपात अडकतो. माणुन भारतीय शेतकचांच्या कर्ज विषयक जीवनाविषयी "भारतीय रोतकरी कर्जान जन्मतो, कर्जान जगतो, आणि कर्जान मरतो," असे वर्णन केले आहे. या

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रिवतीतन शेलकत्यांची सटका करण्यासाठी शेलकत्यांना मदत करण्याच्या हेतूने चारतात पीक विधा योजना लागु करण्याची गरज भागु लागली.

शेती व्यवसायावर नैसर्गिक बदलाचा मोठ्या प्रमाणात परिणाम होतो. अनिश्चितमुळे शेतीच्या उत्पादनामध्ये अनिश्चितता येते. भारतीय रोती मान्युनचा जुनार आहे. महापुर, दुष्काळ, अतिमुख्ये, आन, बाटळ, रोनगई इत्यादी गटकांचा शेती उत्पादनावर प्रमाव वडतो. बऱ्याच वेळा शेतकऱ्यांचे मोज्या प्रमाणात नुकसान होते. काही बेख्य शेनकरी आपल्या उत्पादनाचा खर्च बहन काह शकत वाही त्यामुळे शेतीतील उत्पादन आणि उत्पादनात अनिश्चितता होते. अशा बंळेस शेतकरी आर्थिक गरजेची पर्तना करण्यायाठी कर्ज पेकन तो कर्ज जाळवान अडकनो. या स्थितीतून सुटका करण्यासाठी शंतकत्यांना दिलासा देण्याच्या तेतूने भारतामध्ये राष्ट्रीय गीक विमा योजना महत्त्वाची धरिवता बजावत anie

विष्यार्थ

भारतीय अर्थन्यवरथेत कृषीला अतिशय महत्त्व आहे. प्राचीन काळापासून स्वतः थ्या मारुभत गरजांच्या पूर्वतेसाठी भारतील लोक कृषीया आषात यत असल्याचे दिसूब येते, परंतु शेती क्षेत्रामध्ये कमाठीची अनिश्चितता व मोठी जोखिम असते. अपुरे व अनिश्चित पर्जन्यमान, पूर, तुषकाळ व इतर अनेक कारणामुळे शेतीनील उभी गीकं नष्ट होतान. त्यामुळे शेनकत्याचे अनोनात नुकरात होत. रोतीतील पीकासाठी रोतकऱ्यांनी आपले घांड्बल व क्षम लायून वाहबिलले पीके काएणी हाईपर्यंत वालीलच याची शारमती कोचालाही देता येत नहीं, अशा चरिरवतीत शेतकचांचे आर्थिक दक्तवान तर होतेच परंतु परंत उत्पादन पेण्यासाठी छागणारी मानसिक शक्ती देखिल शेतकरी पालवुन बसती. कारण पूना परणी करून देखिल पीक हाती येईल्प यापी खाबी त्याला नसते. या सर्व समस्येला आख्य पाउण्यासाठी पीक विम योजना ही संकल्पना समीर आली. शेनकऱ्यांना रयांच्या पिकांबर संकटे आल्यास त्यापासून होणाऱ्या नुकसानीची भरपाई मिळण्याची हमी प्राप्त हाल्यास शंतकरी पुना नव्या उत्पाहाने शेनीची कामे कर शकनान, माणुनच पीक विमा उत्पविणे हे आधनिक यगान अत्यंत महत्त्वाचे वानले जाते. चीक विष्यामुळे पीकांची होणारी हानी विमा कंपनी चरन देते. या पैशातुन पुना नवीन हंगामात पीक येण्याचा शंतकरी प्रयत्न कर शकतात. संदर्भगुणी

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## BLACK SOLDIER FLY, HERMETIA ILLUCENS L.: A NUTRITIVE INSECT AND A SOLUTION TO LIVESTOCK FEED

#### Karuna P. Ganvir

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#### Abstract:

The food industries require new supportable sources of protein and fats which can be received by the use of insects like Hermetia illucens L at an industrial scale. Black soldier fly larvae have a potential to feed on any organic waste matter and convert it into insect biomass so it can be utilised as a livestock feed. Livestock sector like poultry, aquaculture, piggery, duck culture etc. always struggling to fulfil the demands of nutritious feed. Insects like black soldier fly have been identified as potential alternatives to the predictably used protein sources in livestock feed due to their rich nutrient content and the fact that they can be reared on organic wastes streams. Products made from insect biomass resultant from the organic waste streams are better suitable for industrial large-scale production of insect meal, for this purpose systematic study of nutritive value of these larvae is needed. Present study confirmed that different nutritive parameters like crude protein, fats, amino acids, fatty acids, vitamins, flavonoids, minerals etc. gained by of Black soldier fly larvae fed on different organic wastecan be utilized as an alternative feed for livestock sector.

Keywords: Black soldier fly, Hermetia illucens L., livestock feed, nutritive value, organic waste, insect biomass

#### Introduction:

The food demand will probably increase by 70% by the year 2050 worldwide so as to meet the demands of 9.7 billion people who are expected to inhibit the world by that time (Tilman et al., 2011). While the world population continuously growing along with resource consumption and waste generation, the food resources are becoming limited, causing various responses from different sectors of society (Paulin et al., 2018). The use of livestocksectors like poultry, fish, shrimp, piggery etc. utilized as food is the solutionin the demanding and developing



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# LIFE SCIENCES: TRENDS AND TECHNOLOGY

Edited By DR. PRIYANKA SHANKARISHAN





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# BLACK SOLDIER FLY BIOWASTE TREATMENT: A WAY TO GENERATE CIRCULAR ECONOMY FOR LIVESTOCK SECTORS

#### KARUNA P. GANVIR

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#### ABSTRACT

Black soldier fly, Hermecia illucens (Order – Diptera, Family- Stratiomydae) is very well known as a potential insect for biowaste management as the larval stages of this fly can consume any type of organic food waste and reduce the environmental pollution. By digesting the organic food wastes like fruit waste, vegetable waste, farm waste, poultry waste, industrial organic waste etc, this insect gains the biomass in the form of protein, fats, vitamins, minerals and all essential amino acids. Because rich nutrients present in in the larval stages, can be used as feed or used as a feed ingredient for livestock sectors. Circular economy has become one of the most important research areas worldwide, supporting sustainable and resource-efficient policies for long term socio-economic and environmental benefits. BSF can manage the circular economy system; maximize income by recycling organic waste combined with minimizing the environmental footprint. This chapter discusses the role of Black Soldier Fly for biowaste management and how it contributes for fulfilling the circular economy for livestock sectors.

KEYWORDS: Black soldier fly, Hermecia illucens L, circular economy, biowaste management, insect biomass, livestock sector

#### INTRODUCTION

The rise in urbanisation, expanding human population and changes in diet habits encourages livestock fields to increase its production, to upgrade food quality and to provide better hygienic food but still this sector is struggling to fulfil these demands from growing human populations. To nurture the livestock sectors high-cost protein supplement is needed which will create an environmental burden in the form of land, water and energy which are natural resources and are limited. For providing protein supplement to livestock sectors insects which can be grown easily and in enormous number, act as a gem as they are rich in protein, fats and several vitamins and minerals.

Number of insects are known like housefly, mealworm, grasshoppers and black soldier fly to be used as feed directly or used as a feed ingredient in some food diet formulations. Particularly insects used as feed for livestock like poultry, aquaculture, piggery etc. Hermecia illucens L., Black Soldier Fly (BSF) larvae are capable to digest various types of organic wastes which are routinely produced like vegetable or kitchen waste, farm waste,

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## 1

# INTRODUCTION TO RESEARCH METHODS

Research can be defined as the search for knowledge, or as any systematic investigation, with an open mind, to establish novel facts, usually using a scientific method. The primary purpose for basic research (as opposed to applied research) is discovering, interpreting, and the development of methods and systems for the advancement of human knowledge on a wide variety of scientific matters of our world and the universe. While engaged in his job, a researchers finds that, the systematic exploration of the relationship leads to finding relational statements which can be termed as laws. The laws in turn help in understanding phenomena or events in the environment. The laws may be integrated to constitute a theory. It is the theorisation process that contributes ultimately to the fund of knowledge.

Hence, research is an organised activity to find out answers to questions which contributes to knowledge generation process. Besides understanding the phenomena and events in the environment, as mentioned above, research provides clues for predicting the events of future.

Research supports further developing certain measures which result into desired effects or improvements. The above description of research is applicable particularly to the areas of scientific disciplines such as Physical Sciences where research



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