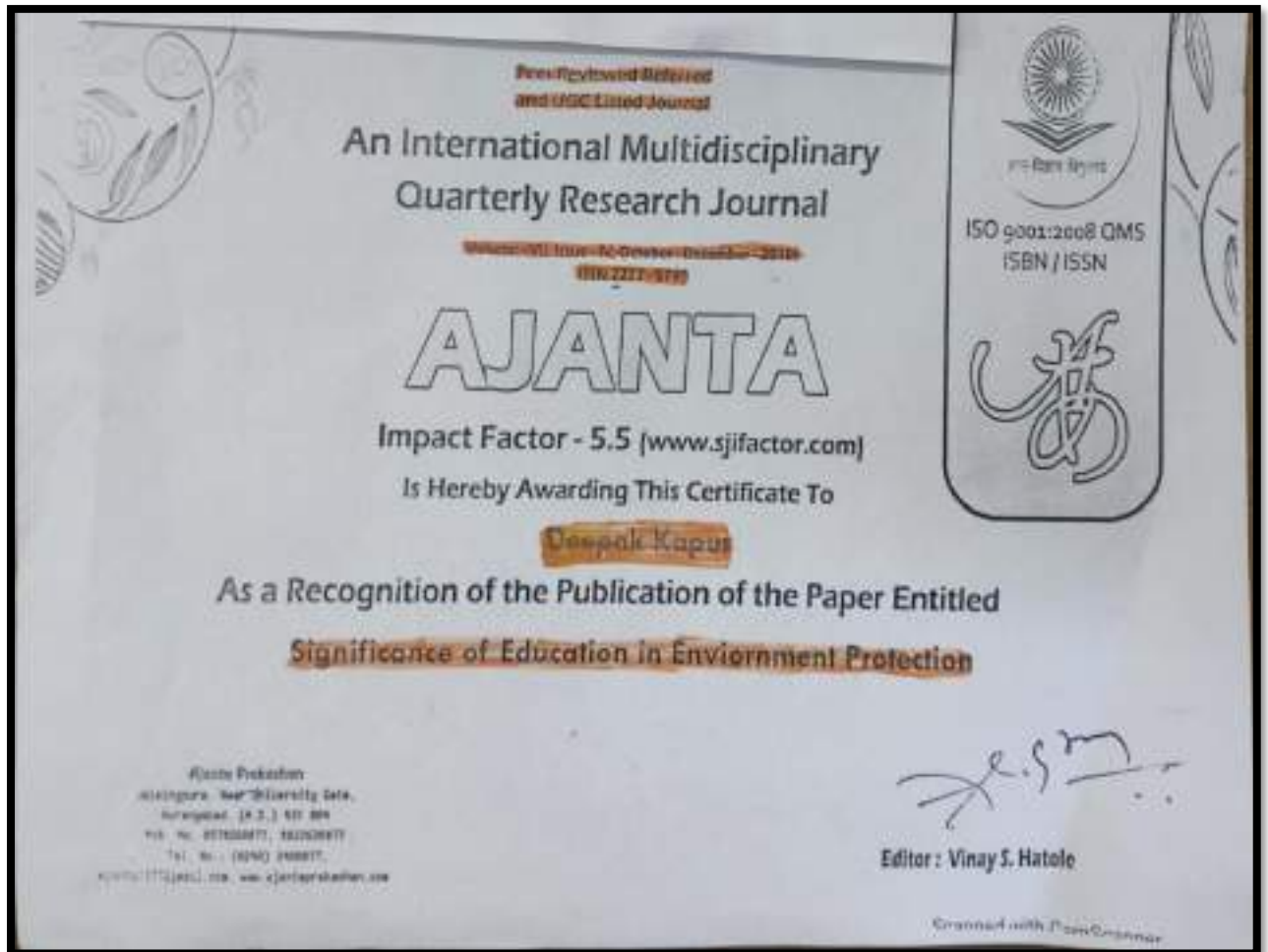


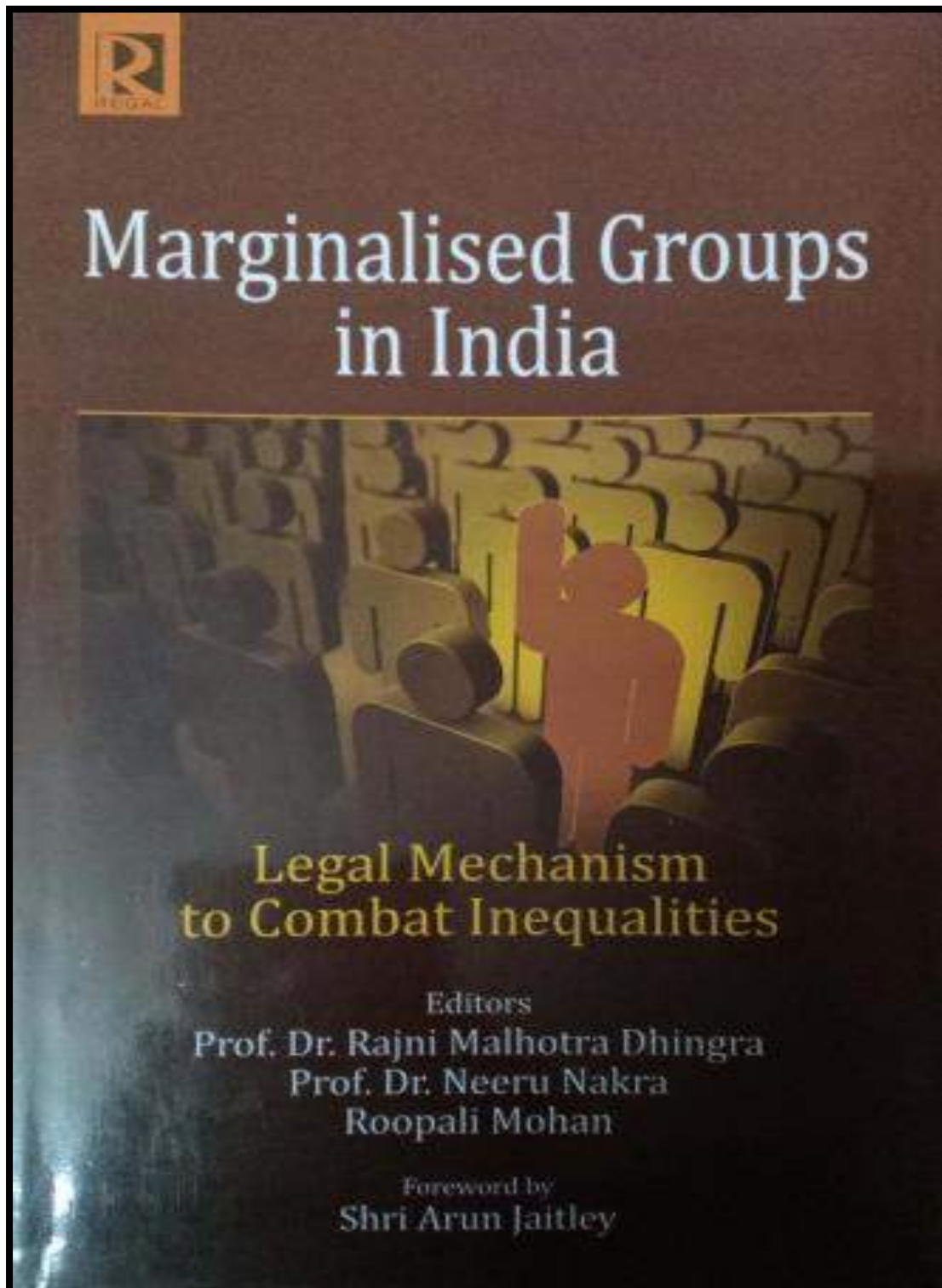


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## Transgender in Indian Society

Deepak Kapoor

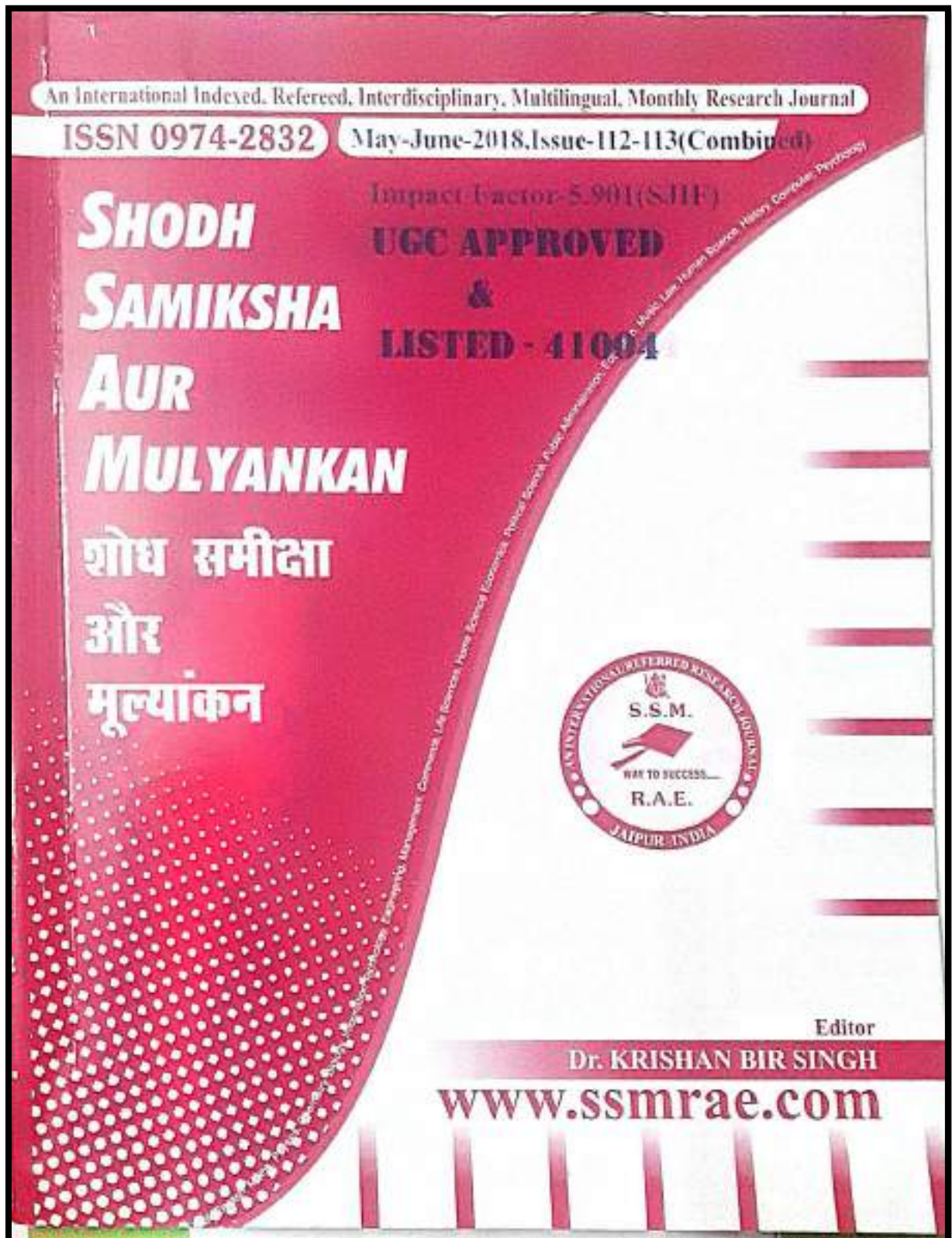
### ABSTRACT

Sex and gender are closely related but there is a subtle difference between the two. Where Sex determines the biological status of a person, gender is a set of cultural roles. A person's gender identity is typically aligned with the sex assigned to them at birth and Transgender is the condition of one's "gender identity" not coordinating one's "birth-assigned sex". Gender transition is the period amid which transsexual people start changing their appearances and bodies to match and coordinate their internal gender identity. However, the meaning of gender difference may shift from culture to culture, yet, the right to choose one's gender identity is integral to the right to lead a life with dignity and therefore falls within the scope of the right to life (Article 21). In this regard, the Court emphasized the need to read the provisions of the Constitution in line with present day conditions, based on a factual and social reality that is constantly changing.


### INTRODUCTION

Undoubtedly sex and gender are closely and firmly related but there is a subtle difference between the two. Sex implies biological status as male or female. It incorporates physical traits, for example, sex chromosomes, sex hormones, internal reproductive structures, and external genitalia. Gender is a term that is regularly used to allude to ways that individuals act, or feel about themselves. Sex is based on biological characteristics,





International Indexed & Referred Research Journal Related to Higher Education For all Subject

**Issue : 112-113**  **UGC APPROVED, ACCEPTED & LISTED NO. 41004**

May- June ,2018  
(Combined)

**SHODH, SAMIKSHA AUR MULYANKAN**

ISSN 0974-2832 (Print), E-ISSN: 2320-5474, RNI RAJBIH. 2009/29954

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**www.ugcjournal.com**

Editor in Chief

**Dr. Krishan Bir Singh**

Editor's Office

A- 215, Moti Nagar, Street No.7 Queens Road Jaipur- 302021, India

Contact -0141-2359838 09413970222, 08107775568

E-mail: dr.kbsingh@yahoo.Com  
professor.kbsingh@gmail.Com

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**मुख्य सम्पादक – डॉ. कृष्णबीर सिंह का नाम पर एवं कार्य पूर्णतः अनैवधिक है।**  
**इस सेवा पत्रिका की प्रकाशन, सम्पादन एवं मुद्रण में पूर्णतः सम्पादक कारी गई है। किसी भी प्रकार की मुद्रि मात्र सम्पादन भूल गयी जामे।**  
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## The Horror of Acid Attacks- Where does India stand today?

Sonia Chahal

Asst. Prof. English, G.K.S.M. Govt. College, Tanda Urmur, Distt. Hoshiarpur, Punjab



### ABSTRACT

Acid attacks, one of the worst crimes against women, are a worldwide phenomenon. Sadly, the incidents are becoming a common feature in India also. The survivors of such attacks bear physical as well as psychological scars. An acid attack the world. Laws have been made stricter by the Indian government also. Steps are being taken to curb this menace all over the world. Another area of focus should be the rehabilitation of the survivors. NGOs can play a very positive role in this regard. Along with the spread of education, certain values need to be instilled in the youngsters. In short, a multi-pronged approach has to be adopted to counter this menace.

Keywords: heinous crime, rehabilitation, NGO's, judiciary.

### Introduction

Of all the instances of violence against women, nothing can compare with the horror of an acid attack. Acid is usually thrown at the faces of victims, damaging skin tissue irreparably and sometimes even dissolving the bones. It may cause loss of vision in one eye or both as well as permanent scarring of the face and the body. The acid, thrown into the face, is frequently swallowed causing severe throat injuries. Apart from the life-long medical complications, the survivor also has to cope with a big number of psychological problems. In addition, a host of social as well as economic hardships plague almost every survivor. Most survivors have to give up their education, their jobs and other activities in their lives. Women who have survived acid attacks have great difficulty in finding work and have very little chance of ever getting married. It will definitely not be an overstatement to say that it turns a victim into the living dead.

### Findings:

Not all the cases of acid attack are reported. As per data available, from 1999 to 2017, 3385 acid attack cases have taken place, with 38 incidents happening in 2017 alone. 1 Almost 85% of the victims are women, according to statistics. 2 The reasons behind these attacks range from domestic or land disputes, dowry demands or a desire for revenge. If we look closely, the subordinate position of women in society seems to be a key factor in the whole story. Due to the patriarchal structure of society, women in Indian society have traditionally been considered subservient to men. This belief has percolated down so deep in our culture that it governs our mental set-up and behavioral pattern. Since a female is considered to be an inferior, any assertion of will on her part is something

which the male finds hard to digest. A disgruntled suitor, for instance, can think of no better revenge than disfiguring the face of a girl which would make her unable to show her face anywhere. Gender discrimination indeed is a way of life in Indian society. Boys have always been thought to be more important than girls in a family. She is rarely allowed to follow her dreams. Rather, she is overprotected to the extent that she grows into an insecure and timid young woman. This timidity aids and encourages the perpetrator of this crime, since in most of the cases, the girl does not speak out against the abnormal behavior of her stalker, prior to an acid attack. She does not even confide in her parents, for fear that she would be confined to the four walls of her house and not allowed to continue with her studies.

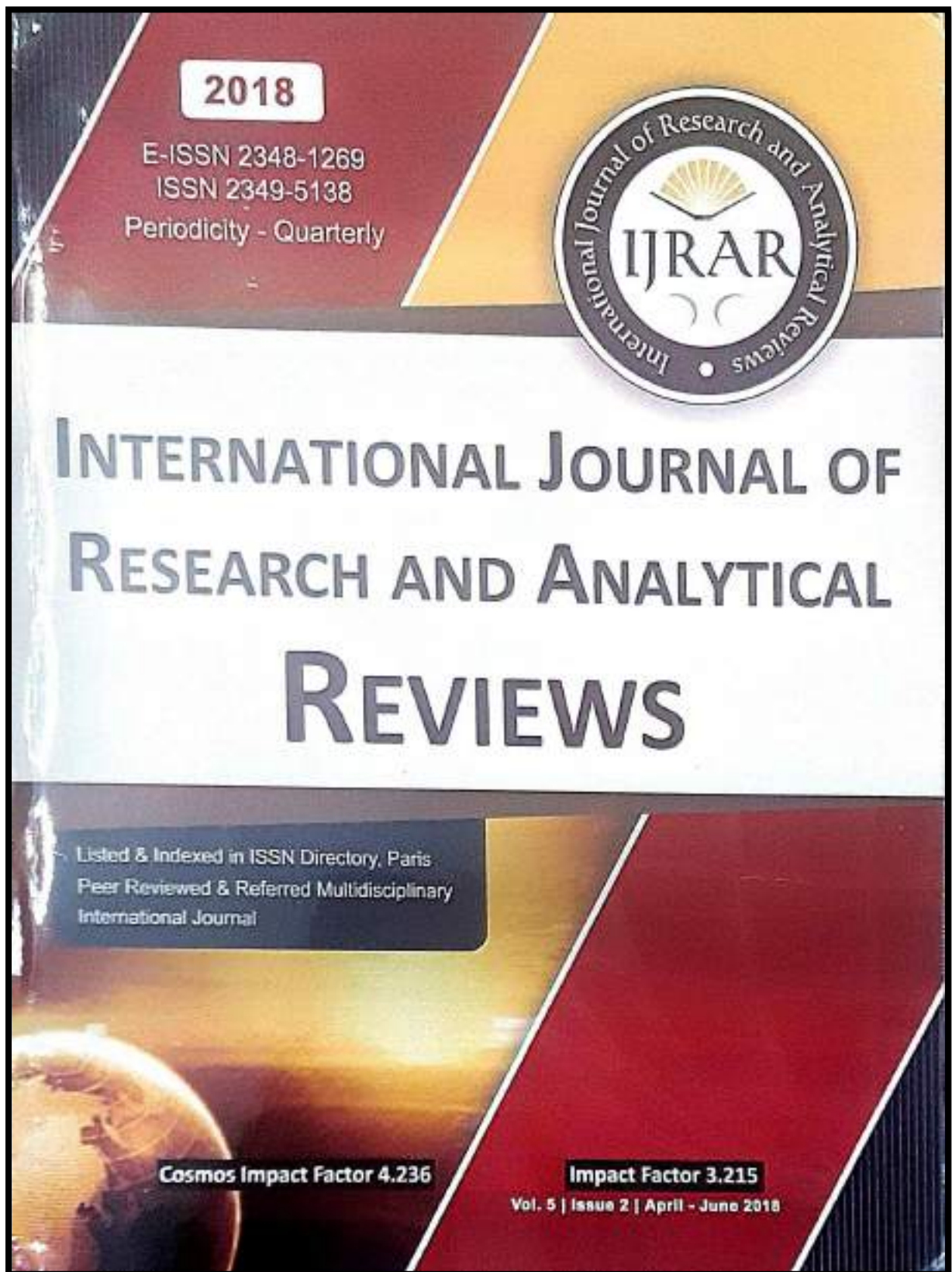
The popularity of this attack among the criminals may also be attributed to the laxity in Indian laws both in limiting the availability of acid as well as in countering the crime. Acid is easily available and it has a low cost. It is also easy to carry out an acid attack and escape. Most commonly used acids are hydrochloric, sulfuric or nitric acid which quickly burn through flesh and bone. Acid is used compulsorily in a big number of industries. The organized sector, which includes fertilizer and other heavy industries, is mostly under regimented control system. It is the unorganized sector, which employs a large number of migrant population, that poses a greater risk. Murshidabad, which is the cotton hub of Bengal, has much higher number of attacks due to the availability of acids used for fading work. 3 Even household cleaners pose a risk as most have acid above permissible levels.

Of late, there has been a heightened awareness in all quarters regarding the need to curb this inhuman prac-

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URL : <http://ijrar.com>

ISSN 2349 - 5138

E - ISSN 2348 - 1269

An open Access, peer reviewed, refereed, online and print research Journal

## International Journal of Research and Analytical Reviews

UGC Approved Research Journal

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International Journal of Research and Analytical Reviews

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## A Feminist Approach to Anita Desai's *Fire on the Mountain*

Sonia Chahal

Assistant Professor (English) G.K.S.M. Govt. College Tanda (Urmur, Punjab)

Received: May 07, 2018

Accepted: June 11, 2018

### ABSTRACT

A feminist reading involves a close examination of the way the female characters are portrayed in a work of literature as the feminist critics consider literature to be an important tool of socialisation. Looking at *Fire on the Mountain* from a feminist perspective, one finds that Anita Desai has scored indeed high in the creation of her female characters. The tale starts with Nanda Kaul living alone at Carignano, joined by Raka, her great granddaughter and Ila, her friend. The novel ends with the rape and murder of Ila. Instead of creating female stereotypes that fit into the social mould of perfect women, Anita Desai has created real women, complete with their strengths and weaknesses, virtues and foibles. The three protagonists are all women of substance who face their life with grace and dignity. They are the ones that the feminist would not mind as role models for the society.

**Keywords:** Patriarchy, socialisation, isolation, marriage

Anita Desai is one of the most widely read Indian novelists writing in English. Her *Fire on the Mountain* caught the critics' eye as soon as it was published in 1977 and won the Sahitya Academy Award in 1978. Anita Desai herself considers it as her most satisfying work. She says that "the work in which I have come closest, to what I set to do, and I don't think I very often do, is *Fire on the Mountain*" (1). The novel has been analysed from various angles. It is interesting to have a close look at it from a feminist perspective. A feminist reading of any work basically entails looking at the way the author has projected the female characters in her work and the predicaments that they face in their lives.

All civilisations have assigned women a secondary role throughout history. Since the ancient times, women have had to fight for the smallest of rights that are bestowed upon men right from their birth. Women had to wage a long battle for the right to vote in the western countries. Equal pay for equal work is still an unrealised dream in many countries. Feminism rose in the West as a reaction to the open discrimination against women. Though it started as a socio-political movement, it soon made inroads into other areas including literature. Feminist critics share a deep concern about the depiction of women in literature, since they consider the representation of women in literature as "one of the most important forms of 'socialisation' since it provided the role models which indicated to women, and men, what constituted acceptable versions of the 'feminine and legitimate feminine goals and aspirations.'" (2) The feminist critics, therefore, raised serious questions on the depiction of women in literature as docile, submissive and selfless beings. This kind of awakening in women has brought about a change in the depiction of women in literature. Now a large number of texts depict women who refuse to fit into the mould that has been cast for them by the society.

*Fire on the Mountain* has Nanda Kaul as its central character. The novel is divided into three parts. Part I "Nanda Kaul at Carignano" deals with her secluded life in a sprawling house called Carignano. Part II is titled "Raka comes to Carignano." Raka is Nanda's great granddaughter and this part depicts the initial hostility and the subsequent rapport that develops between the two. Part III "Ila Das leaves Carignano" shows Nanda Kaul's meeting with her childhood friend, Ila Das. This part deals with the tragic rape and death of Ila Das.

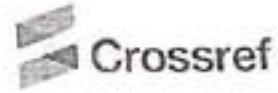
Nanda Kaul is one of those protagonists who have suffered a life-time of unhappiness caused by a loveless marriage. At one time, a University Vice Chancellor's wife, she had been the "hub of a small but intense and busy world." (3) Throughout her life, Nanda has conformed to the wishes of her husband and has fulfilled the requirements of his social status. However, she has never received any affection from her husband. Rather, he has always treated her "as some decorative yet useful mechanical appliance needed for the efficient running of his household." (4) Like all the patriarchal societies the world over, Indian society has also developed a whole series of feminine characteristics like obedience, submissiveness, modesty and piety etc. Nanda has always fitted into this mould of an ideal woman. Instead of appreciating her, her husband has gone ahead and has had a life-long affair with Miss David, a Christian lady.

When we meet Nanda Kaul in the beginning of the novel, her husband has died and she is living a secluded life in hills. She seems to have outlived her utility, as she has fulfilled all of her duties as a wife and





UGC Approved Journal



# IJELLH

International Journal of English Language,  
Literature in Humanities

Indexed, Peer Reviewed (Refereed) Journal

ISSN-2321-7065

Impact Factor : 5.7



Editor-in-Chief

Volume 6, Issue 6  
June 2018  
[www.ijellh.com](http://www.ijellh.com)







## The Question of Meaning: Another Reading of Edward Albee's *Who's Afraid of Virginia Woolf?*

Sonia Chahal

(Assistant Professor in English, G. K. V. Mahant College, Tanda District, Punjab, India)

**Abstract:** *Who's Afraid of Virginia Woolf?*, written by the American playwright Edward Albee, tells the sad tale of an American couple George and Martha, who have a troubled marital life. George is an associate professor of history in a college. The couple is childless and they have created an imaginary child. Both of them keep on taunting and hurting each other throughout the play. The play ends with George giving the news of the death of their imaginary son to Martha, thereby taking away her sole joy of life. To get at the full meaning of play, it is important to remember that the play does not merely talk about the failed marriage of an American couple. Far from that, to think that the play is only about American and the American way of life would be seriously limiting the scope of the play. The fact is that Albee has much more to say through this play. Albee seems to raise existential issues as he conveys the alienation and deep despair that are the lot of the modern man, who has to rely upon many illusions to go through the worldly business of life. However, illusions cannot sustain a man for long. Albee seems to be speaking in favour of taking the life by its horns and accepting it as it is.

**Keywords:** American dream, alienation, despair, illusion, absurd, existentialism.

Edward Albee (1928-2016) is considered one of the greatest American playwrights of his generation. His notable works include *Who's Afraid of Virginia Woolf?*, *The Zoo Story*, *A Delicate Balance* and *The Goat, or Who is Sylvia?* He started his career as a playwright in 1960. His plays infused a new life into the ailing American theatre of his time. Albee made his Broadway debut in 1962 with *Who's Afraid of Virginia Woolf?* an over three-hour long play about a middle-aged professor George and his wife, Martha. The production was an instant hit. It was denied the Pulitzer Prize but it received both the New York Drama Critics' and Tony Award for the best play of the season 1962-63. The play was adapted for the screen in a 1966 film which had Richard Burton and Elizabeth Taylor play George and Martha. Elizabeth Taylor even won an Academy Award for Best Actress for her performance in the film. Presently, *Who's Afraid of Virginia Woolf?* finds its place among the modern theatre classics. The popularity it has enjoyed over the decades may be attributed to the fact that it deals with some of the fundamental realities of life, with focus on Americans and the American way of life. A trite term, Albee's treatment "a satiric indictment, sometimes, savage, of American manners and mores, and the cultural assumptions that shape them."<sup>1</sup>

In *Who's Afraid of Virginia Woolf?* Albee trains his lens on marriage, one of the important institutions of society. The play mainly deals with the married life of a middle-aged couple, George and Martha. George is an Associate Professor of History at a college in the town of New Canaan and his wife Martha is the daughter of the President of the same college. When the play opens, the couple has just returned from a party quite late in the night, at about 2 a.m. clock. Martha has invited a couple, Nick and Honey to their place. Nick is the newly appointed teacher in the department of Biology. The drinking continues throughout the night. From quite early on in the play, one can easily make out that all is not well with the marriage of George and Martha. They indulge in verbal sparring for most of the night and both seem to concentrate solely on getting even with each other. Even the games that the two couples play seem to have this very specific end i.e. mercilessly humiliating the other. As Thorstein E. Borer observes, "In *Virginia Woolf* marriage is a matter of expediency. It is the occasion for a vivid antagonism, a highway to success and an opportunity for sexual 'fun and games'."<sup>2</sup> It is a very sad spectacle that the couple presents of their marriage. Martha comes across as a frustrated woman who loses no opportunity to take a dig at her husband. She irritates him endlessly and seems to take pleasure in his annoyance. She says, "I like your anger. I think that's what I like about you most... you anger."<sup>3</sup> Their is also a marriage cursed with sterility and barrenness, since the couple is childless. They have created an illusory child but with a secret pact that neither will speak about the child in public. Martha speaking about the imaginary son in front of Honey is the final straw for George and in retaliation he kills off the imaginary child. This breaks Martha's heart and she is inconsolable for some time. However, she has to come to terms with reality and we see her doing the same as the play comes to a close.

To a cursory reader, the play may seem to centre around only and only the marriage of George and Martha. But it is not that the play only deals with the institution of marriage, it does by seriously limiting the scope





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A Bi-Annual Refereed Journal

Vinayak Global Research Review (ISSN 2349-4239)  
 Volume 5, No 1 & 2, January -December, 2018, pp 148-158  
 Bi-Annual Refereed Journal  
 RohtakMalcom Education Society (Regd.), Haryana, INDIA  
 UGC Approved Journal with Serial No. 63887

## Career Planning As a Tool of Employee Retention in Insurance Sector

Dr. Shashi Bala

Associate Professor, Department of Commerce, G.K.S.M Government College, Tanda Urmur, Punjab, ([shashi\\_97@yahoo.com](mailto:shashi_97@yahoo.com)).

### Abstract

Employees are the most valuable asset of any organization and the policies and practices of the organization by which employees stick to the organization for a longer period of time is called Employee Retention. Success of an organization depends on how effectively its employees update themselves professionally to deal with customers. Managers of financial services firms are faced with dual responsibility of having to hire, train and keep highly talented and motivated staff because customers of financial services firms have widely differing needs and expectations and can show up requiring services at quite unpredictable times. Each worker comes with a unique skill set but can be trained to enlarge that skill set usually at the cost of training and promotion. Career Planning can be used as a tool for employee retention. As per organization's viewpoint career planning means assessing the employees' capacities and utilizing them in the context of organization's needs. The New India Assurance Company Limited (NIACL) is a leading public sector company, which has its branches in twenty four countries and deals in General Insurance business.

The present paper aims to study the viewpoint of employees regarding the Career Planning practices in NIACL and to provide suitable suggestions for making the best use of potential of employees in the company. It is a primary data based study covering the geographical area of Punjab and Chandigarh, Regional Offices. A sample of 235 employees, drawn on the basis of stratified random sampling technique has been used for data collection. The primary data so collected was analysed with the help of the statistical package SPSS (Statistical Package for Social Sciences) using statistical technique like Chi-square test.

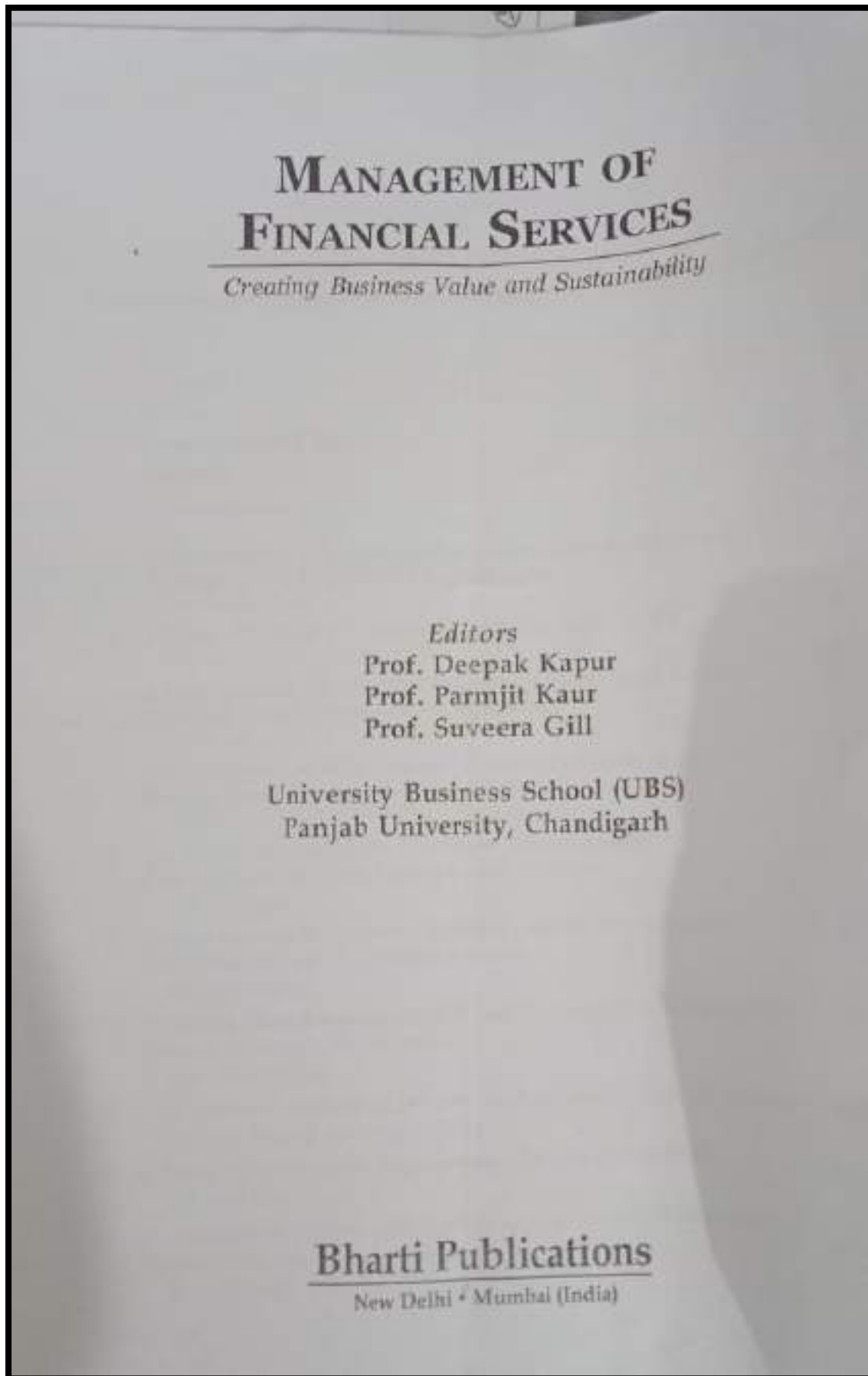
**Key Words**-Financial Services, Insurance, Career Planning

### Introduction

Major challenge for any organization these days is to retain high potential and most talented employees in the organization. An organization cannot survive if top performers quit. Planning the career of employees in organization can be employed as a useful tool to retain employees. Organizations have traditionally engaged in human resources planning and development. This involves charting the moves of large numbers of employees through various positions in an organization and identifying future staffing and development needs. Career development programme should be viewed as a dynamic process that matches the needs of the organization with the needs of the employees. The word career can be viewed from a number of different perspectives. From one perspective a career is sequence of positions of









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## Staffing Challenges in Financial Services-Planning the Career Path of Employees in Insurance Sector

Dr. Shashi Bala\*

### Abstract

Employees of an organization are the most valuable asset and it is the utilization of this asset to the fullest extent that the organization can grow to its best in stand in competition with others in the market. Success of an organization depends on how effectively its employees update themselves professionally to deal with customers. Managers of financial services firms are faced with dual responsibility of having to hire, train and keep highly talented and motivated staff because customers of financial services firms have widely differing needs and expectations and can show up requiring services at quite unpredictable times. Each worker comes with a unique skill set but can be trained to enlarge that skill set usually at the cost of training and promotion. Organizational development, increased productivity and fulfilment of corporate objectives can be accomplished only if employees of the organization get a feeling of satisfaction and achievement and consider themselves a part of that organization. This involves charting the moves of large numbers of employees through various positions in an organization and identifying future staffing and development needs. From organization's viewpoint career planning means helping the employees to plan their career in terms of their capacities within the context of organization's needs. The NIACL is a public sector Company which deals in non-life insurance business. The objective of the paper is to study the practices regarding planning the Career path of employees in NIACL. An effort has been made to provide suitable suggestions by making the best use of potential of employees in the company. The scope of the study is Punjab and Chandigarh, Regional Offices. For the purpose of the study both primary and secondary data has been used. Primary data was collected from the employees of the Company from the Branch Offices, Divisional Offices and the Regional Offices. The sample size was 235 employees. The sample of the employees was drawn on the basis of stratified random sampling technique. The primary data was collected by administering an Interview Schedule which included different questions relating to the different aspects of career planning. The primary data so collected was analysed using cross tabulation with the help of the statistical package SPSS (Statistical Package for Social Sciences) using statistical techniques like Chi-square test and coefficient of correlation.

**Keywords:** Financial Services, Insurance, Career Planning

\* Associate Professor, Department of Commerce, G.K.S.M. Government College, Tanda Urmur, Punjab

ISSN 2348-3598

**VISION**  
**An International**  
**Journal**  
**of**  
**Humanities and Management**

Vol. V      Issue 5      April 2018      Annual



## **Dasmesh Girls College**

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Website: [www.dgemukerian.org](http://www.dgemukerian.org)  
E-mail: [dgc\\_chakallahaksh17@rediffmail.com](mailto:dgc_chakallahaksh17@rediffmail.com)  
[dgc\\_johm14@rediffmail.com](mailto:dgc_johm14@rediffmail.com)  
Ph: 01883-247895, M: 94651-37136, Fax: 01883-247995



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\*विरेंद्र कुमार

वाद्य शब्द की व्युत्पत्ति वद धातु से हुई है जिसका अर्थ स्पष्ट बोलना अर्थात् किसी भी संगीतात्मक ध्वनि उत्पादक वस्तु को वाद्य की संज्ञा दी जा सकती है।

वाद्य शब्द का प्रयोग संगीत शास्त्र में अनेक अर्थों में हुआ है जिन में से तीन मुख्य हैं -

1. वाद्य जिसे बजाया जाता है।
2. वाद्य वह है जिसे हाथों की विभ्याओं से प्रयोग किया जाता है।
3. वह जिसे हाथों के द्वारा बजाया जाता है।

**लालमणि मिश्र** :- संगीतात्मक ध्वनि तथा गीत को प्रकट करने वाले उपकरण को वाद्य कहा जाता है।

**इन्द्राणि चक्रवती** :- इनके अनुसार वाद्य शब्द की उत्पत्ति वद धातु से हुई है।

सितार शब्द की व्युत्पत्ति

और

सितार के लिए सहतार शब्द का प्रयोग

सहतार नाम से यह अनुमान किया जा सकता है कि भाषा की सुगम उच्चारण प्रवृत्ति के प्रति लोगों के सहज आकर्षण के चलते कालान्तर में सहतार से सितार हो गया।

\* अस्सिस्टेंट प्रोफेसर, संगीत विभाग, राजकीय महाविद्यालय, टांडा।

ISSN 2348-3598

**VISION**  
**An International**  
**Journal**  
**of**  
**Humanities and Management**

Vol. V      Issue 5      April 2018      Annual



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Website: [www.dgcmukerian.org](http://www.dgcmukerian.org)  
E-mail: [dge\\_chakallabaksh17@rediffmail.com](mailto:dge_chakallabaksh17@rediffmail.com)  
[dgc\\_johm14@rediffmail.com](mailto:dgc_johm14@rediffmail.com)  
Ph:01883-247895, M:94651-37136, Fax:01883-247995

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## ਸਾਹਿਤ ਅਧਿਐਨ ਦੀ ਮਨੋਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਵਿਧੀ

‘ਕੁਲਵਿਦਰ ਕੌਰ

ਮਨੋਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਵਿਧੀ ਉਹ ਵਿਧੀ ਹੈ ਜੋ ਸੁਚੇਤ ਅਤੇ ਅਚੇਤ ਮਾਨਸਿਕ ਪ੍ਰਕਿਰਿਆ ਦਾ ਅਧਿਐਨ ਕਰਦੀ ਹੈ। ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਮਨੁੱਖ ਦੇ ਮਾਨਸਿਕ ਵਿਕਾਰਾਂ ਨੂੰ ਸਮਝਣ ਅਤੇ ਵਿਆਖਿਆ ਕਰਨ ਦੀ ਤਕਨੀਕ ਹੈ। ਇਹ ਮਨੋਵਿਗਿਆਨ ਦੀ ਉਪਲੱਬਧੀ ਹੈ ਜੋ ਅਚੇਤ ਮਾਨਸਿਕ ਵਿਵਹਾਰ ਅਤੇ ਮਨੋਵਿਕਾਰਾਂ ਦੀ ਇਲਾਜ ਵਿਧੀ ਵੀ ਹੈ। ਮਨੁੱਖੀ ਵਿਵਹਾਰ ਗੁੰਝਲਦਾਰ ਵਰਤਾਰਾ ਹੈ। ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ, ਮਨੋਵਿਗਿਆਨ ਦੀ ਵਿਧੀ ਹੈ ਜੋ ਮਨੋਵਿਗਿਆਨ ਦੇ ਖੇਤਰ ਵਿੱਚ ਮਹੱਤਵਪੂਰਨ ਰੋਲ ਅਦਾ ਕਰਦੀ ਹੈ। ਵਿਗਿਆਨ ਦੀ ਪ੍ਰਾਪਤੀ ਲਈ ਪ੍ਰਯੋਗਸ਼ਾਲਾ ਵਿੱਚ ਮਨੋਵਿਗਿਆਨ ਅਤੇ ਮਨੋ-ਵਿਸ਼ਲੇਸ਼ਣ ਵਿਚਾਰਧਾਰਾ ਨਵੀਂ ਕਿਸਮ ਦੀਆਂ ਹੋਣ ਵਾਲੀਆਂ ਤਕਨੀਕੀ ਤੇ ਮਕਾਨਕੀ ਵਿਧੀਆਂ ਦਾ ਸਮੂਹ ਹੈ। ‘ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ’ ਔਗਰੇਜ਼ੀ ਸ਼ਬਦ (Psychoanalysis) ਦਾ ਸਮਾਂਤਰ ਹੈ, ਜਿਸ ਦਾ ਅਰਥ ਮਨ ਦਾ ਵਿਸ਼ਲੇਸ਼ਣ ਕਰਨਾ ਹੈ। ਇਸ ਦੇ ਖੇਤਰ ਵਿੱਚ ਮਨ ਦੇ ਦੋ ਰੂਪ ਸੁਚੇਤ ਤੇ ਅਚੇਤ ਆਉਂਦੇ ਹਨ।

Erich Eross ਦੇ ਅਨੁਸਾਰ, “ਮਨੋਵਿਗਿਆਨ ਦੀਆਂ ਬਾਕੀ ਵਿਧੀਆਂ ਵਾਂਗ ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਵੀ ਇੱਕ ਵਿਧੀ ਹੈ। ਇਸ ਦੀਆਂ ਆਪਣੀਆਂ ਉਪਲੱਬਧੀਆਂ, ਹੱਦਾਂ ਅਤੇ ਇਸ ਦੇ ਆਪਣੇ ਦਿਸ਼ਾ-ਨਿਰਦੇਸ਼ ਹਨ।”

ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਪ੍ਰਣਾਲੀ ਸਾਹਿਤ ਅਤੇ ਅਲੋਚਨਾ ਦੀ ਇੱਕ ਮਹੱਤਵਪੂਰਨ ਵਿਧੀ ਹੈ। ਮਨੋਵਿਗਿਆਨ ਦੇ ਸਮੁੱਚੇ ਸਿਧਾਂਤਕ ਅਤੇ ਇਤਿਹਾਸਕ ਪ੍ਰਕਰਣਾਂ ਉਪਰ ਨਜ਼ਰ ਮਾਰਨ ‘ਤੇ ਪਤਾ ਚੱਲਦਾ ਹੈ ਕਿ ‘ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ’ ਮਨੋਵਿਗਿਆਨ ਦੀ ਅਹਿਮ ਪ੍ਰਾਪਤੀ ਹੈ। ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਦਾ ਵਿਸ਼ਾ ਸੁਖਲ ਅਤੇ ਸਥਿਰ ਨਹੀਂ ਸਗੋਂ ਚੰਚਲ ਤੇ ਗਤੀਸ਼ੀਲ ਹੈ।


ਪੰਡਿਤ ਪ੍ਰਿਥਵੀ ਨਾਥ ਭਾਰਗਵ ਦੇ ਅਨੁਸਾਰ, “ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਅਗਿਆਤ ਮਨ ਤੋਂ ਭਾਵਨਾ ਗ੍ਰੰਥੀਆਂ ਦਾ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਨ ਦੀ ਇੱਕ ਵਿਸ਼ੇਸ਼ ਵਿਧੀ ਹੈ।”<sup>12</sup>

ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਜਿੱਥੇ ਮਾਨਵੀ ਵਿਵਹਾਰ ਨੂੰ ਸਮਝਣ ਵਿੱਚ ਸਹਾਇਤਾ ਕਰਦਾ ਹੈ ਉਥੇ ਸਾਹਿਤ ਅਤੇ ਕਲਾ ਦਾ ਅਧਿਐਨ ਕਰਨ ਵਿੱਚ ਵੀ ਸਹਾਈ ਹੁੰਦਾ ਹੈ। ਵਿਅਕਤੀ ਦੇ ਅੰਤਰ ਮਨ ਦੀਆਂ ਗੁੰਝਲਾਂ/ਪੀੜ੍ਹਾਂ/ਅਤ੍ਰਿਪਤੀਆਂ ਅਤੇ ਖਰਿਬੜੀਆਂ ਇੱਛਾਵਾਂ ਦਾ ਪ੍ਰਗਟਾਉ ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਦੀ ਬਹੁਲਤਾ ਅਤੇ ਵਿਲੱਖਣਤਾ ਦੀ ਗੁੰਜਾਇਸ਼ ਸਿਰਜਣਾ ਹੈ। ਮਨੋਵਿਗਿਆਨ ਦੀਆਂ ਵਿਧੀਆਂ ਵਿਚੋਂ ਅੰਤਰਪ੍ਰੇਖਣ ਅਵਲੋਕਨ ਜਾਂ ਪਰੇਖਣ, ਵਿਅਕਤੀ, ਇਤਿਹਾਸ, ਪ੍ਰਯੋਗਿਕ ਵਿਧੀ ਆਦਿ ਵਾਂਗ ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਵੀ ਮਨੋਵਿਗਿਆਨ ਦੀ ਵਿਧੀ ਹੈ।

ਡਾ: ਕਮਲਪ੍ਰੀਤ ਕੌਰ ਅਨੁਸਾਰ, “ਮਨੋਵਿਸ਼ਲੇਸ਼ਣਾਂ ਦੇ ਸਿਧਾਂਤਾਂ ਉਤੇ ਅਧਾਰਿਤ ਕੁਝ ਅਜਿਹੇ ਤੱਤ ਅਤੇ ਰੂਪ ਉਭਰ ਕੇ ਸਾਹਮਣੇ ਆਉਂਦੇ ਹਨ ਜੋ ਮਨੁੱਖੀ ਮਨ ਅਤੇ ਵਿਵਹਾਰ ਨੂੰ ਸਮਝਣ ਵਿੱਚ ਹੀ ਸਹਾਈ ਨਹੀਂ ਹੁੰਦੇ ਸਗੋਂ ਸਾਹਿਤ ਅਤੇ ਕਲਾ ਦੇ ਸਿਰਜਣਾਤਮਕ ਅਤੇ ਆਲੋਚਨਾਤਮਕ ਅਮਲ ਨੂੰ ਸਮਝਣ ਵਿੱਚ ਵੀ ਸਹਾਈ ਹੁੰਦੇ ਹਨ।”<sup>13</sup>

ਮਨੋਵਿਗਿਆਨ ਨੇ ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਦੇ ਪ੍ਰਚਲਤ ਹੋਣ ਨਾਲ ਮਨੋਚਿਕਿਤਸਾ ਦੇ ਖੇਤਰ ਵਿੱਚ ਪ੍ਰਵੇਸ਼ ਕਰਕੇ ਸਰੀਰ ਅਤੇ ਤੰਤੂ ਪ੍ਰਬੰਧ ਦੀ ਗਤੀਸ਼ੀਲਤਾ ਨੂੰ ਮਾਨਸਿਕ ਵਿਵਹਾਰ ਨਾਲ ਜੋੜ ਕੇ ਮਾਨਵੀ ਵਿਵਹਾਰ ਨੂੰ ਨਵੇਂ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਤੋਂ ਪੇਸ਼ ਕਰਨ ਦਾ ਯਤਨ ਕੀਤਾ ਹੈ। ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਵਿਧੀ ਅਸਧਾਰਨ ਵਤੀਰੇ ਦਾ ਅਧਿਐਨ ਕਰਦੀ ਹੈ। ਅਚੇਤਨ ਮਨ ਵਿੱਚ ਅਜਿਹੀਆਂ ਮਨੋਗੁੰਝਲਾਂ ਹੁੰਦੀਆਂ ਹਨ ਜੋ ਚੇਤਨ ਮਨ ਦੀ ਏਕਤਾ ਵਿੱਚ ਗੜਬੜ ਪੈਦਾ ਕਰਦੀਆਂ ਹਨ। ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਦਾ ਕੰਮ ਇਨ੍ਹਾਂ ਮਨੋਗੁੰਝਲਾਂ ਦਾ ਨਿਖੇੜ ਕਰਨਾ, ਉਨ੍ਹਾਂ ਨੂੰ ਸਮਝਣਾ ਅਤੇ ਰੋਗੀ ਦੇ ਮਨੋਵਿਕਾਰਾਂ ਦਾ ਅਧਿਐਨ ਕਰਨਾ ਹੈ। ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ ਮਾਨਸਿਕ ਚਿਕਿਤਸਾ ਦੀ ਉਹ ਵਿਧੀ ਹੈ, ਜਿਸ ਦੁਆਰਾ ਮਨੁੱਖ ਜਾਂ ਰੋਗੀ ਦੇ

<sup>12</sup> ਕਿਸਰਚ ਸਕੋਲਰ, ਪੰਜਾਬੀ ਅਧਿਐਨ ਸਕੂਲ, ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ।



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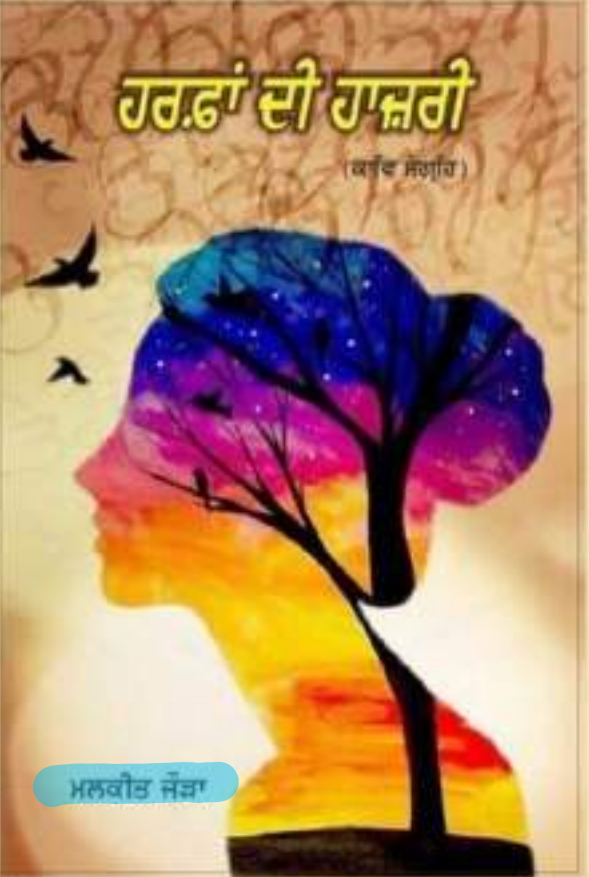
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**ਮਲਕੀਤ ਜੋੜਾ**



*Poetry/Punjabi Poetry*

ISBN : 978-93-83391-76-9

**Harphan Dee Hazri**

by

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V.P.O. Jaura

Distt Hoshiarpur (144204)

Mob. 9872534278

Email. malkitjaura987@gmail.com.

2018

SV

Published Lokgeet Parkashan  
printed & bound by Unistar Books Pvt. Ltd.  
301, Industrial Area, Phase-9,  
S.A.S. Nagar, Mohali-Chandigarh (India)  
email : unistarbooks@gmail.com  
website : www.unistarbooks.com  
Ph. +91-172-5027427, 5027429, 4027552

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**Narinder Dansiwal**  
**Da**  
**Rachnatmik Vivek**

by

**MALKIT JAURA**

98725-34278

**DR. BALWINDER SINGH**

82830-31839

© ਲੇਖਕ

ISBN : 978-93-86838-83-4

ਪਹਿਲੀ ਵਾਰ: 2018

ਕੀਮਤ : 350 ਰੁਪਏ

**ਪ੍ਰਕਾਸ਼ਕ: 5 ਆਬ ਪ੍ਰਕਾਸ਼ਨ**

1-2ਦੇਸ਼ ਭਗਤ ਯਾਦਗਾਰ ਬਿਲਡਿੰਗ, ਜਲੰਧਰ

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ਪ੍ਰਿੰਟਰਜ਼: 5ਆਬ ਪ੍ਰਿੰਟਰਜ਼ ਜਲੰਧਰ

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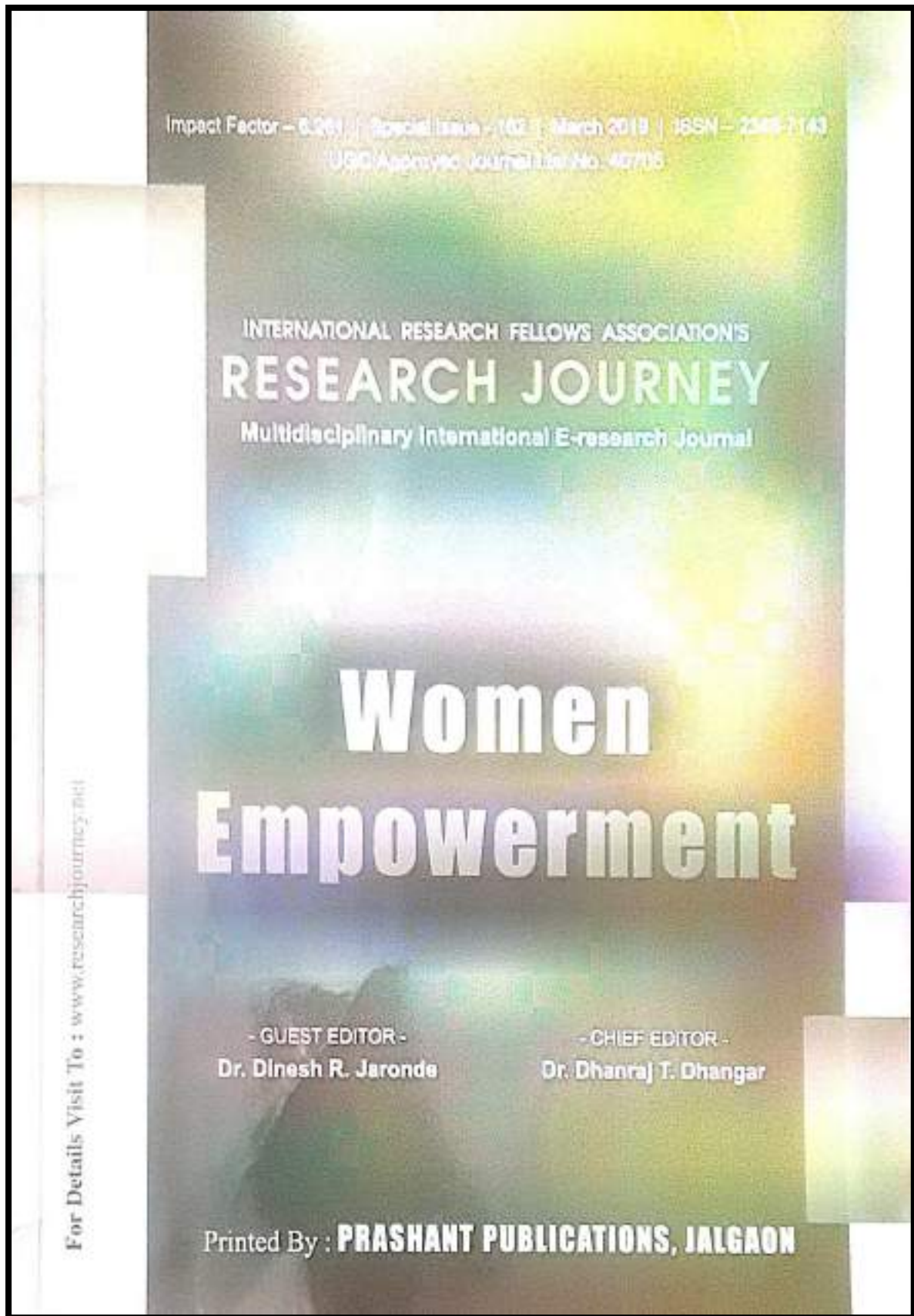
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(ਅ) ਸਮੁੱਚੀ ਕਾਵਿ ਰਚਨਾ ਦੇ ਅਧਿਐਨ ਕਰਤਾ: ਡਾ. ਬਲਵੀਰ ਮੰਨਣ, ਸੋਨੂੰ ਸਮਰਾਏ,  
ਪ੍ਰੋ. ਅਜੈ ਕੁਮਾਰ ਅਰਸ਼।

229-246





Impact Factor - 6,261 • Special Issue - 162 • Mar. 2019 • ISSN - 2348-7143

INTERNATIONAL RESEARCH FELLOWS ASSOCIATION'S  
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UGC Approved Journal  
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ISSN: 2349-7143  
March 2019

RESEARCH JOURNEY International Multidisciplinary E-Research Journal  
Impact Factor (SJIF) - 6.261 | Special Issue 162 : Women Empowerment

## Women Empowerment and Domestic Violence

Sonia Chahal

Asst. Professor (English)  
G.K.S.M. Govt. College

Tanda Urmar, Distt. Hoshiarpur - 144204

### Abstract :

Besides physical violence, domestic violence may entail psychological, emotional, verbal, economic and sexual violence. The main motive of the abuser is maintaining dominance over the victim at all costs. Domestic violence is a sad reality in India. The government has made a number of laws to curb this menace. However, legislation alone cannot solve this problem. Women have to be empowered with education, wealth and good jobs. Most importantly, they have to be empowered with a sense of self-worth before we can even dream of living in a society that is free of domestic violence.

### Full Paper :

Wikipedia defines domestic violence as "violence or other abuse by one person against another in a domestic setting such as in marriage or cohabitation."<sup>1</sup> Contrary to the popular belief, domestic violence is not merely physical violence perpetrated by one individual on another. It takes a number of other forms such as verbal, psychological, emotional, economic and sexual abuse etc. In fact, domestic violence is "any kind of behaviour that a person uses, or threatens to use to control an intimate partner."<sup>2</sup> The main motive of the abuser in the cases of domestic violence is maintaining dominance over the victim at all costs. For this, the abuser may make use of a number of control tactics such as hitting, beating and slapping (physical), insulting or criticising to undermine the victim's self-confidence at times even publicly (psychological), isolating the victim from friends and family (emotional), not allowing the victim an access to family funds (economic) and forcing or withholding sex from the victim as a control mechanism (sexual) etc. The list of control tactics that an abuser may employ seems to be sadly endless. The abuser may start exerting control in a subtle manner. The privacy of the victim is insidiously invaded till the victim has no time or space of his or her own. In many cases, the abuser encourages "dependence by making the victim believe that they're incapable of surviving or performing simple tasks without the abuser or on their own."<sup>3</sup> There are, therefore, several categories of abusive behaviour, each of which has its own terrible consequences. The consequences of domestic violence on the victim are sometimes hidden and at times overwhelmingly quite visible even to a cursory eye. As a result of abuse, victims may experience "physical disabilities, dysregulated aggression, chronic health problems, mental illness, limited finances, and poor ability to create healthy relationships."<sup>4</sup> It is the "long term destruction of personhood which is the most tragic and unfortunate outcome of domestic violence."<sup>5</sup> Abused persons often feel that they are alone, and have nowhere to turn for help.

Both men and women can be victims of domestic violence but as Wikipedia reports, "Globally, the victims of domestic violence are overwhelmingly women, and women tend to experience more severe forms of violence."<sup>6</sup> According to the National Domestic Violence Hotline statistics, "approximately 1 in 4 women and 1 in 7 men over the age of 18 have been the victim of physical domestic violence."<sup>7</sup> This may be attributed to the gender inequality that is prevalent in a majority of societies. Since in traditional societies, women are considered to be inferior, men do not consider it to be much of an issue if a little bit of force is used now and then to keep them in their place. Women, on their part, are financially as well as emotionally dependent on their abusers in most of the cases. Most of them are mothers and greatly fear being unable to support their children if they leave their violent husbands. Added to that is the woe of non-availability of realistic sources of help for the battered women. Very few women can bank upon life-long support and constant help from her ageing parents or even siblings. Even police can offer no reliable protection over a long period of time. The woman is in a particularly vulnerable position, should the man retaliate against the police report. It has often been seen that typical abusers often become more violent when women try to seek police protection. Many women do not report domestic abuse for fear of social stigma. Traditionally, a big number suffers from low self-esteem. Some even go to the extent of believing that the abuse is somehow their fault and that "they can stop it if they act differently."<sup>8</sup> They easily fall into the trap of self-blame as their partners have already corroded their self-esteem to an unbelievable extent. The situation becomes much worse if the male has an addiction to alcohol and drugs.

Domestic violence is a sad reality in India, since our country has a patriarchal set-up. In a society with a traditional mindset, Indian women have never been considered on a par with their male counterparts. To add to their woes, there are a number of practices such as female foeticide, dowry system



# Repercussions of Social Media on Language



Chief Editor  
**Dr. Surinder Singh Thakur**

Editors  
**Surinder Kapila, Galaxy Gupta**



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Chief Editor  
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**Galaxy Gupta**

Guru Nanak College Killianwali,  
Sri Muktsar Sahib

ISBN  
978-93-88977-87-6

Edition 2019

International Publishers & Book Suppliers

Representative Offices

# Street 22466 133RD, Avenue South East, City : Kent,  
State: Washington, Zip Code 98042 (USA) Ph. +12532435688

#16, Fallowfield Road, LEICESTER, U.K. LE5-6LQ

According to fourth amendment 2016 by UGC  
Sapatrishi Publications approved by UGC-Punjab University, Chandigarh



Published by

**Sapatrishi Publications**

Plot no. 24/9, Industrial Area, Phase-2,

Near Tribune Chowk, Chandigarh,

Website : [sapatrishipublication.com](http://sapatrishipublication.com)

E-mail-: [sapatrishi94@gmail.com](mailto:sapatrishi94@gmail.com)

0172-5002591, 94638-36591

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## Social Media and Modern Generation

Sonia Chahal\*

### Abstract

Man is a social being and has always tried to find ways to connect with his fellow beings. The invention of computers in the 1940's was no less than a revolution in the way men had connected in the past. Today, there are many social media sites which provide instant connection between families and friends. These are very popular with the young generation especially. Apart from connecting people, they may also prove to be immensely beneficial for the acquisition of knowledge for the students and more expertise for the professionals. Youngsters can even do business through social media. However, there may be some negative effects of social media also. Young people have to be guided as to how to steer clear of these pitfalls, so as to make the optimum use of social media.

### Full Paper

Man is essentially a social being. To connect and interact may be termed as one of the basic instincts of mankind. As Robert Endleman has famously said, "We need each other just to survive, we need each other to be human...Man is the most social of animals".<sup>1</sup> In fact, networking is one of the oldest patterns of human society. Where face-to-face interaction is not possible, man has always been on the lookout of devising ways to connect with fellow humans. Men connected across distance with the help of written correspondence, telegraph and telephone till the end of 19th century. Communication was totally revolutionised with the invention of super computers in the 1940's. The linking of these computers resulted in the birth of Internet which completely revolutionised the ways humans beings had communicated till that time. Internet relay chats were first used in 1988. The first recognizable social media site, Six Degrees, was created in 1997.<sup>2</sup> Sites like MySpace, LinkedIn, Photobucket and Flickr came into existence in the early 2000's. YouTube came out in 2005 and by 2006, Facebook and Twitter both became available to users throughout the world.<sup>3</sup>

Today, there is an enormous variety of social networking sites. Some of the most popular social media websites, with over 100

\*Assistant Professor (English)



Received on 23 October 2018; received in revised form, 13 February 2019; accepted, 08 March 2019; published 01 July 2019

## A REVIEW ON ANTIPROLIFERATIVE ACTIVITY OF PLANT EXTRACTS AGAINST BREAST CANCER CELL LINES

R. Kumar<sup>1</sup>, S. Mahey<sup>2</sup>, V. Kumar<sup>1</sup>, R. Arora<sup>3</sup>, A. Sharma<sup>4</sup> and S. Arora<sup>5</sup>

Department of Botany<sup>1</sup>, DAV University, Jalandhar - 144012, Punjab, India.

Department of Botany<sup>2</sup>, DAV College, Jalandhar - 144001, Punjab, India.

Department of Biochemistry<sup>3</sup>, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar - 143501, Punjab, India.

State Key Laboratory of Subtropical Silviculture<sup>4</sup>, Zhejiang A and F University, Hangzhou - 311300, China

Department of Botanical and Environmental Sciences<sup>5</sup>, Guru Nanak Dev University, Amritsar - 143005, Punjab, India.

### Keywords:

MITT, Breast cancer,  
Cluster analysis, MCF-7

### Correspondence to Author:

R. Kumar

Department of Botany,  
DAV University, Jalandhar - 144012,  
Punjab, India.

E-mail: raakysk@gmail.com

**ABSTRACT:** Breast cancer (BC) is the foremost cause of deaths among women worldwide. Plants contain diverse bioactive phytochemicals which have been explored by researchers all over the world for their cancer preventive potential. The present review tabulates *in-vitro* tested plants during 2014-17 against breast cancer cell line. We have collected data of 56 angiosperm families (117 plant species) which was subjected to cluster analysis. On the basis of  $IC_{50}$  values of plant extracts were clustered using cluster analysis. Cluster analysis showed a grouping of order Brassicales, Fabales, Lamiales, Caryophyllales, Myrtales, and Apiales. It has been found that most of the plants tested against BC belong to eudicot group of plants. Active plant extract obtained after 24 h, 48 h and 72 h treatment were *Mitosa cacaipinaefolia*, *Ferulago angustifolia*, *Magydaris tomentosa*, and *Ipomoea batatas* respectively. These plants may further be characterized for active ingredients to check their prospects in breast cancer treatment.

**INTRODUCTION:** Breast Cancer (BC) is the most prevalent cause of cancer-related deaths among women worldwide<sup>1, 2, 3, 4, 5</sup>. Despite advances in its diagnosis and treatment options, the number of incidences is increasing every year<sup>6, 7</sup>. The number of breast cancer cases reported in 2018 from the whole world was 20,88,849 amongst which 6,26,679 died<sup>8</sup>. BC is not just one disease but has many variations and subtypes with distinct signatures and treatment programs<sup>9, 10</sup>.

The early stage BC can be successfully cured, but treatment options are scarcely accessible to patients with advanced or metastatic stages<sup>7</sup>. Women with mutated BRCA gene, have nearly 80% risk of developing BC along with a 50% possibility of their children getting the mutated gene<sup>11</sup>. The genetic mutations in BRCA1 and BRCA2 genes suppurates the exigent root cause of patrimonial breast cancer<sup>12</sup>. Although numerous causes are associated with the establishment and progression of BC, yet the oxidative stress (OS) is operating in most of the intracellular pathways concerned with cellular proliferation<sup>13</sup>.

It has been reported repeatedly that the level of OS is higher for BC patients as compared to healthy people due to genetic abnormalities<sup>1, 14</sup>. This elevated OS is beneficial for malignant cells as it

	<p>DOI: 10.13043/IJPSR.0975-8232.10(7).3144-54</p>
	<p>The article can be accessed online on <a href="http://www.ijpsr.com">www.ijpsr.com</a></p>
<p>DOI link: <a href="http://dx.doi.org/10.13043/IJPSR.0975-8232.10(7).3144-54">http://dx.doi.org/10.13043/IJPSR.0975-8232.10(7).3144-54</a></p>	



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Industrial Crops & Products 158 (2019) 111486



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Contents lists available at ScienceDirect

## Industrial Crops & Products

Journal homepage: [www.elsevier.com/locate/indcrop](http://www.elsevier.com/locate/indcrop)





### Insights into biological properties of less explored bark of industrially important *Acacia catechu* Willd

Rakesh Kumar<sup>a,b,c</sup>, **Sonia Mabey<sup>a</sup>**, Rohit Arora<sup>a,d</sup>, Jyoti Mahajan<sup>a</sup>, Vinod Kumar<sup>d</sup>, Saroj Arora<sup>d</sup>

<sup>a</sup> Department of Biomedical & Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India  
<sup>b</sup> Department of Botany, DAV University, Jalandhar, 144013, India  
<sup>c</sup> Department of Botany, DAV College, Ludhiana, 144001, India  
<sup>d</sup> Department of Biochemistry, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, 143531, India

**ARTICLE INFO**

**Keywords:**  
Chromatography  
Antioxidant  
*Acacia catechu*  
Antiproliferative  
Cancer

**ABSTRACT**

*Acacia catechu* Willd. is an industrially exploited tree for its heartwood. It also has numerous ethnomedicinal uses especially in gastrointestinal tract-related disorders. However, not much is available on bark of the tree, so the present study highlights the possible therapeutic potential of *A. catechu* bark. The bark extract/fractions, methanol (MEB), ethyl alcohol (EMBL), n-butanol (NEEB) and aqueous (AFB), were prepared and evaluated for antioxidant, DNA protective and antiproliferative activities. EAFB was found to be most active in scavenging free radicals followed by MEB, NNEEB and AFB. UHPLC analysis showed correlation between high antioxidant activity of EAFB due to abundance of quercetin, isorhamnetin and chlorogenic acid. Further path analysis also grouped together flavanols, flavans, flavones and cinnamic acid derivatives (using them as major compounds responsible for antioxidant activities). The growth inhibitory potential of EAFB was also tested on six human cancer cell lines (i.e., lung (A549), prostate (PC-3), breast (MCF-7), liver (Hep-G2), cervix (HeLa) and brain (IMR-32)). The latter was found to be most effective against MCF-7 cell line showing  $IC_{50}$  of 137.5  $\mu$ g/ml. This study underlined the disease preventive importance of *A. catechu* bark which can be further explored in pharmaceutical industry using different established models.

#### 1. Introduction

Living organisms are always exposed to a variety of oxidants (reactive oxygen species and reactive nitrogen species) generated either endogenously or exogenously (Lei et al., 2018; Siva, 2018; Srivastava and Chatur, 2019). They bring about bimolecular oxidations to create oxidative stress (Chen and Liu, 2018). Under normal physiological state, equilibrium between oxidants and antioxidant species which preempts the former from causing subcellular injuries (Baldwin et al., 2012). This balance is disturbed when there is overproduction of oxidants. During oxidative stress, free radicals intrinsically produce DNA nicks, cause membrane damage and inflict other oxidative injuries (Parag and Baban, 2012). Overproduction of hydroxyl radicals are known to activate proto-oncogenes leading to carcinogenesis (Ahmadinejad et al., 2017). Oxidative stress has been often linked to unhealthy eating habits which ultimately lead to establishment of various diseases like neurodegenerative diseases, artherosclerosis, cancer, ulcers (Datta and Ray, 2018). Wearing in the plant based diet could help in mitigating the harmful effects of free radicals (Chen et al., 2018).

Plants synthesise numerous nutraceutically important compounds like phenols, anthocyanins, flavonoids, stilbenes, etc. which have wide range of bioactivities including antioxidant, DNA protective and anticarcinogen properties (Arauz et al., 2014; Tanchan et al., 2015; Pathakaram et al., 2018; Kumar et al., 2019). Chemical synthesis of antioxidant compounds is costly as well as pose serious health problems, so extraction of phytochemicals from plants is cheap and healthy option (Gonzalez et al., 2015). Uptake in consumption of plant by-products in diet serves dual purpose of giving nutritional as well as exogenous antioxidants (Fro et al., 2018). Antioxidants have been proved as free radical scavengers (Chamathilam et al., 2018; Wang et al., 2018). They detoxify free radicals and negate their lethal effects on subcellular fragments (Ahmadinejad et al., 2017). An adomatic negative correlation has been established between uptake of antioxidant rich food and diseases incidence in humans. Antioxidants are abundantly present in various plant parts, like bark, which are considered as waste (Pati et al., 2018). Bark is the outer layer of periderm along with other dead tissue and displays highest concentration of bioactive

<sup>\*</sup> Corresponding author.  
E-mail addresses: [radhysh@pmail.com](mailto:radhysh@pmail.com), [rohit10299@davuniversity.org](mailto:rohit10299@davuniversity.org) (R. Kumar).


<https://doi.org/10.1016/j.indcrop.2019.111486>  
Received 1 February 2019; Received in revised form 13 June 2019; Accepted 16 June 2019  
0926-6690/© 2019 Elsevier B.V. All rights reserved.

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 BIORI-47: No. of Pages 10

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Biotechnology Research and Innovation (2019) xxx, xxx–xxx



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RESEARCH PAPER

## Maleic acid and EDTA mediated extenuation of Co(II) stress in *Hordeum vulgare* seedlings

Sonia Mahey<sup>a,b,\*</sup>, Rakesh Kumar<sup>c</sup>, Vinod Kumar<sup>c</sup>, Resham Sharma<sup>a</sup>, Manik Sharma<sup>a</sup>, Renu Bhardwaj<sup>a</sup>, A.K. Thukral<sup>a</sup>

<sup>a</sup> Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar 143005, India  
<sup>b</sup> Department of Botany, DAV College, Jalandhar 144001, India  
<sup>c</sup> Department of Botany, DAV University, Jalandhar 144012, India

Received 13 March 2019; accepted 18 July 2019

**KEYWORDS**

Barley;  
Chelating agents;  
Co(II);  
Growth parameters;  
Antioxidative enzymes

**Abstract** The present study was performed to assess the effects of maleic acid (MA), ethylenediaminetetraacetic acid (EDTA) amendments on biochemical parameters of 7 days old seedlings of *Hordeum vulgare* L. under Co(II) stress. Application of MA, EDTA, Co(II) alone significantly reduced the root length and shoot length, whereas combination of MA and Co(II), and EDTA and Co(II) enhances the root and shoot length. The antioxidative enzymes such as superoxide dismutase, catalase, guaiacol peroxidase, ascorbate peroxidase and glutathione reductase were significantly enhanced under application of MA, EDTA, Co(II) alone, while their combinations reduced the activities of all the antioxidative enzymes. Multivariate regression analysis and  $\beta$ -regression coefficients showed that  $\beta_1$ (Co) and  $\beta_2$ (MA) have positive regression on the antioxidative enzymes, while  $\beta_3$ (Co  $\times$  MA) have negative regression with the antioxidative enzymes. Similarly,  $\beta_1$ (Co) and  $\beta_2$ (EDTA), and  $\beta_3$ (Co  $\times$  EDTA) showed the similar trend as that of Co and MA. Malondialdehyde (MDA) content is increased under Co stress, whereas MA and EDTA alone or in combination with Co reduce the MDA content. Multiple linear regression analysis also showed that MDA content is significantly enhanced under  $\beta_1$ (Co) stress, whereas in combination with MA or EDTA decreases the MDA content.

**Introduction**

Heavy metals, normally found in diverse ecosystems, immensely affect the organism's health as they bioaccumulate through food chain (Huang, Zhang, Ruan, & Chen, 2017; Zhang, Huang, Chen, Huang, & Ruan, 2016).

In recent years, contamination of soil with heavy metals, i.e., Pb, Cd, Cu, Zn, Ni and Cr, has lead to ecological and environmental issues (Kumar et al., 2018). While paying less consideration to other heavy metals, cobalt (Co) toxicity is increasing immensely. Previously limited in serpentine soils and around the Co–Cu deposits ores (Lange et al., 2017), the existence of Co toxicity has spread to other lands, due to its increased utilization in formation of high-grade steels and alloys, and industrial products, i.e., paints, enamels, varnishes and inks (Adriano, 2001).

\* Corresponding author.  
E-mail: sonia.gndu11@gmail.com (S. Mahey).

<https://doi.org/10.1016/j.biori.2019.07.002>  
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Please cite this article in press as: Mahey, S., et al. Maleic acid and EDTA mediated extenuation of Co(II) stress in *Hordeum vulgare* seedlings. *Biotechnology Research and Innovation* (2019), <https://doi.org/10.1016/j.biori.2019.07.002>



# THE EFFECT OF PRE-TREATMENTS, PACKAGING AND STORAGE CONDITIONS ON FRUIT QUALITY OF PEACH (*Prunus persica* L Batsch) cv. FLORDASUN

<sup>1</sup>Ritu Thakur, <sup>2</sup>Dilip Singh Kachwaya and <sup>3</sup>Jasrine

<sup>1,2</sup>Assistant Professor

<sup>1</sup>Department of Agriculture, Mata Gujri College, Sri Fatehgarh Sahib, Punjab, India

<sup>2</sup>Department of Agriculture, G.K.S.M. Government College, Tanda Urmar, Hoshiarpur, Punjab, India

## ABSTRACT

A study was carried out in entitled "The effect of pre-treatments, packaging and storage conditions on fruit quality of peach (*Prunus persica* L. Batsch) cv. Flordasun" at the Agricultural laboratory of Mata Gujri College, Sri Fatehgarh Sahib, Punjab (India) and Krishna Cold Storage Sirhind, Punjab (India) during the year 2016. The experiment was laid out in Completely Randomized Design (CRD) with five replications. At 6% concentration, pre-treatment of calcium chloride (CaCl<sub>2</sub>) and hot water (55°C) treatment was given for 10 minutes and 1 minute respectively. Further the treated fruits were packed in three packaging films viz. high density polyethylene (HDPE), low density polyethylene (LDPE) and cling film. Then packed fruits were stored under cold storage (0-1°C) and room temperature (30-35°C). Fruits samples were analysed for various chemical characteristics after 5 days of interval of storage (0, 5, 10, 15, and 20). Among all the treatments, T<sub>2</sub> (CaCl<sub>2</sub> + LDPE + Cold storage) treatment was found better than others in respect of characters viz. total soluble solids, titratable acidity, ascorbic acid and pH qualities. Moreover, T<sub>3</sub> (Hot water + Cling + Cold storage) exhibited maximum mean value for total sugars. Treatment T<sub>1</sub> showed minimum values of all the parameters studied. After analysing the present results it was concluded that treatment of T<sub>2</sub> (CaCl<sub>2</sub> + LDPE + Cold storage) might be suggested as effective and economical treatment for improving the quality of peach fruits.

**KEYWORDS:** Cling film, pH, LDPE, HDPE and ascorbic acid

## INTRODUCTION

Peach (*Prunus persica* L. Batsch) belongs to the family Rosaceae, is one of the most important fruits grown in the temperate zone of the world (Pongener *et al.*, 2010). During 2014-15, total world production of peach is 20,035 metric tons (U.S.D.A., 2015). In India, total area of peach during 2014-15 over 19000 hectares with the production of 97000 metric tons. In Punjab during 2014-15, it is grown on 1720 hectares with the production of 305300 metric tons (Anonyms).

The best way to maintain the quality of fresh fruits is probably by conditioning them in adequate temperature through the supply chain (Bretch *et al.*, 2003). It is therefore significant to avoid quick deterioration of peach in order to present its commercial quality. The combination of both post harvest treatments (CaCl<sub>2</sub> and hot water treatment) in fruits can help in increasing fruit shelf-life and reducing commercial losses (Sohail *et al.*, 2015). Use of polymeric film is very pronounced in packaging of fruits with a purpose to extend their storage life. Storage temperature is a key factor affecting the general metabolism of the fruit. At low temperature CO<sub>2</sub> and ethylene production is low and climacteric respiration is delayed (Hu and Ding, 1993). Cold storage of peach and nectarines after harvest is necessary to minimize excessive softening, quality loss and decay and to prolong time for marketing (Celik *et al.*, 2006). The packaging and storage environment greatly affect the post-harvest storage life and quality of peach fruits (Gupta and Jawandha, 2012). Therefore, the present investigation was made to prevent from post-harvest losses and to

# STUDIES ON INFLUENCE OF INTEGRATED NUTRIENT MANAGEMENT ON GROWTH AND YIELD ATTRIBUTES OF CAULIFLOWER (*Brassica oleracea* L. var. *botrytis*)

<sup>1</sup>Purvinder Singh, <sup>2</sup>Sanjeev Kumar Singh, <sup>3</sup>Ritu Thakur and <sup>4</sup>Jasmine

<sup>1,2,3</sup>Assistant Professor

<sup>1,2,3</sup>Department of Agriculture, Mata Gujri College, Fatehgarh Sahib, Punjab, India

<sup>4</sup>Department of Agriculture, G.K.S.M. Government College Tanda Umar, Hoshiarpur, Punjab, India

## Abstract

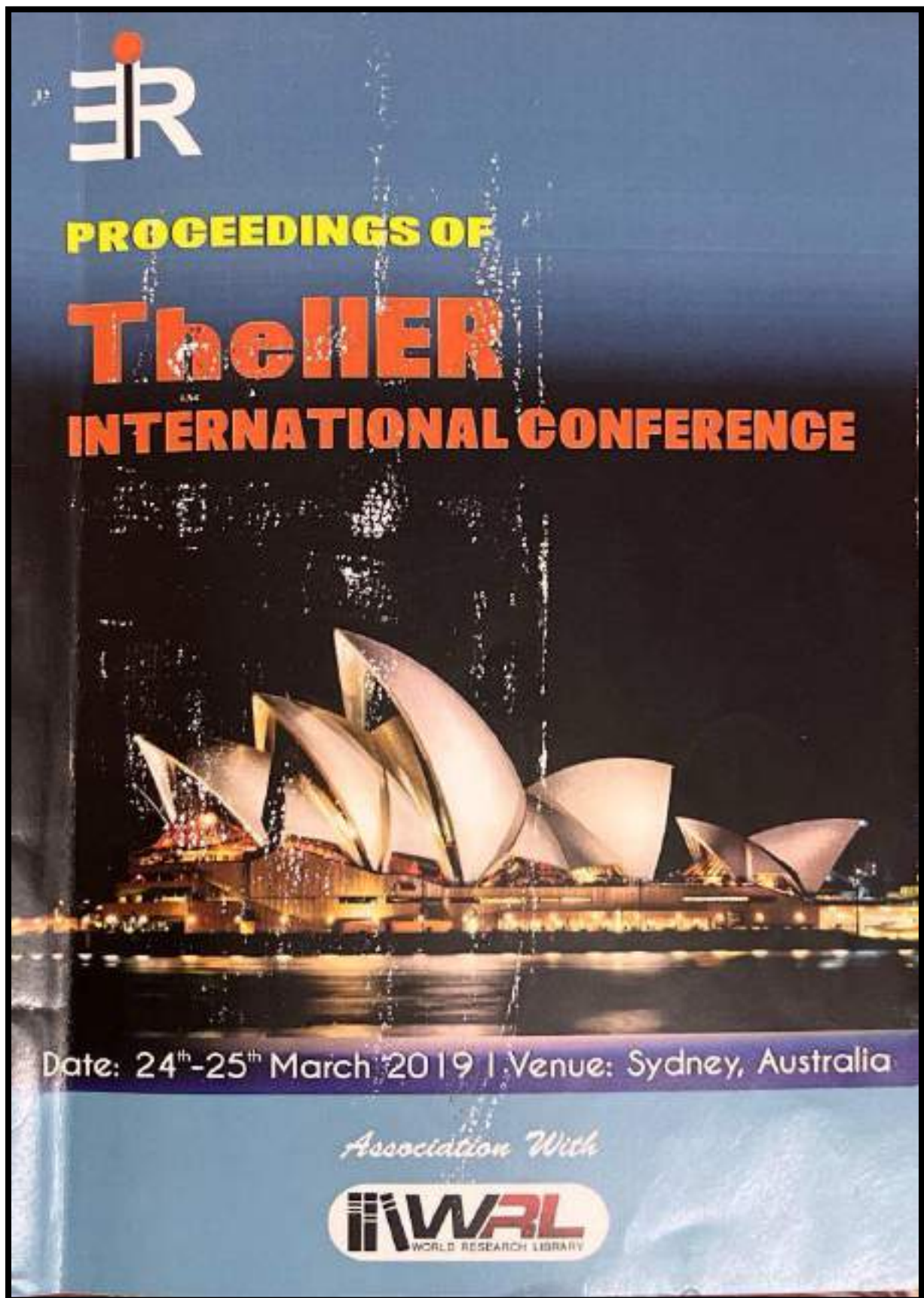
The present investigation entitled “Effect of integrated nutrient management on growth, yield and quality of cauliflower (*Brassica oleracea* L. var. *botrytis*)” was conducted during 2015 at the experimental farm, Department of Agriculture, Mata Gujri College, Fatehgarh Sahib, Punjab, India. The experiment was laid out in a randomized block design with three replications and nine treatments. The treatments consisted of T<sub>1</sub>: Control, T<sub>2</sub>: 100% RDF (NPK @ 125:62.5:62.5 kg ha<sup>-1</sup>), T<sub>3</sub>: Vermicompost, T<sub>4</sub>: 100% RDF + Biofertilizers, T<sub>5</sub>: 75% RDF + Biofertilizers, T<sub>6</sub>: 100% RDF + Vermicompost, T<sub>7</sub>: 75% RDF + Vermicompost, T<sub>8</sub>: 100% RDF + Vermicompost + Biofertilizers and T<sub>9</sub>: 75% RDF + Vermicompost + Biofertilizers. Application of different levels of fertilizers in combination with organic manures and biofertilizers significantly increased the growth and yield of cauliflower. The maximum plant height (33.25 cm), plant spread (66.12 cm), leaf length (31.80 cm), leaf width (18.53 cm), number of leaves (15.77), stalk length (10.84 cm), fresh weight of leaves (570 g), days to curd initiation (84), curd diameter (12.91 cm), curd length (10.69 cm), average curd weight (485.38 g) and curd yield per hectare (35.97 t) were recorded with the combined application of 100 per cent RDF + biofertilizers + vermicompost. Whereas, maximum net returns of Rs. ₹ 1,76,434 along with benefit: cost ratio (2.53:1) were recorded with the conjoint application of 75 per cent RDF + biofertilizers + vermicompost.

**Keywords:** Biofertilizer, vermicompost, growth and yield

## INTRODUCTION

Cauliflower (*Brassica oleracea* L. var. *botrytis*) is one of the most important vegetable crop belonging to Cruciferae family, botanically referred to as the genus *Brassica*. It is grown for its highly suppressed ‘prefloral fleshy apical meristem’ branches called ‘curd’. Biofertilizers inoculation in vegetable crops has been of much significance as they supply the atmospheric nitrogen and phosphorus in available forms and synthesis of biological growth promoting substances (Kachari and Korla, 2012). Vermicompost contains nutrients in form which is readily taken by the plants such as nitrates, exchangeable phosphorus and soluble potassium, calcium, and magnesium. The water soluble components of vermicompost such as humic acid, growth regulators, vitamins, micronutrients and beneficial microorganism increases the availability of plant nutrients, results in increased growth and higher yield (Chatterjee, 2010). Continuous use of inorganics without organics reported deficiencies of nutrients, which might result in the decline in the productivity and poor soil health (Savri, 2012). The use of biofertilizers in combination with chemical fertilizers and organic manures offers a great opportunity to increase the production as well as quality of cauliflower (Shree *et al.*, 2014). The incorporation of organic nutrients in the form of vermicompost, farmyard manure and biofertilizer is known to influence favorably the physico-chemical and biological properties of the soil resulting in enhanced uptake of nutrients from soil (Lal and Kanaujia, 2013). The integrated nutrient management overcomes these problems, which involves conjunctive use of chemical fertilizers and organic manures to sustain crop production as well as maintenance of soil health. Systematic approach to nutrient





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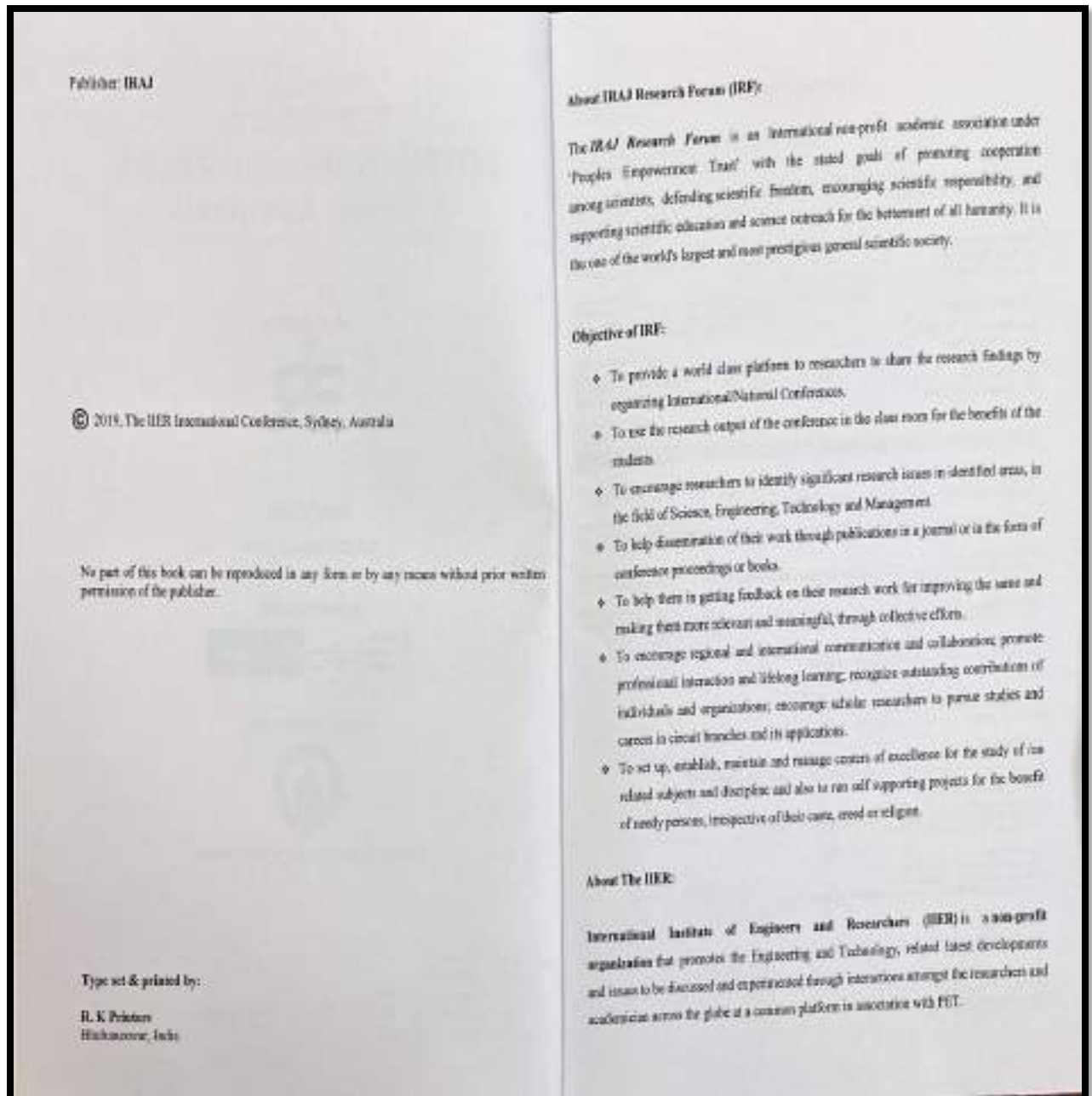
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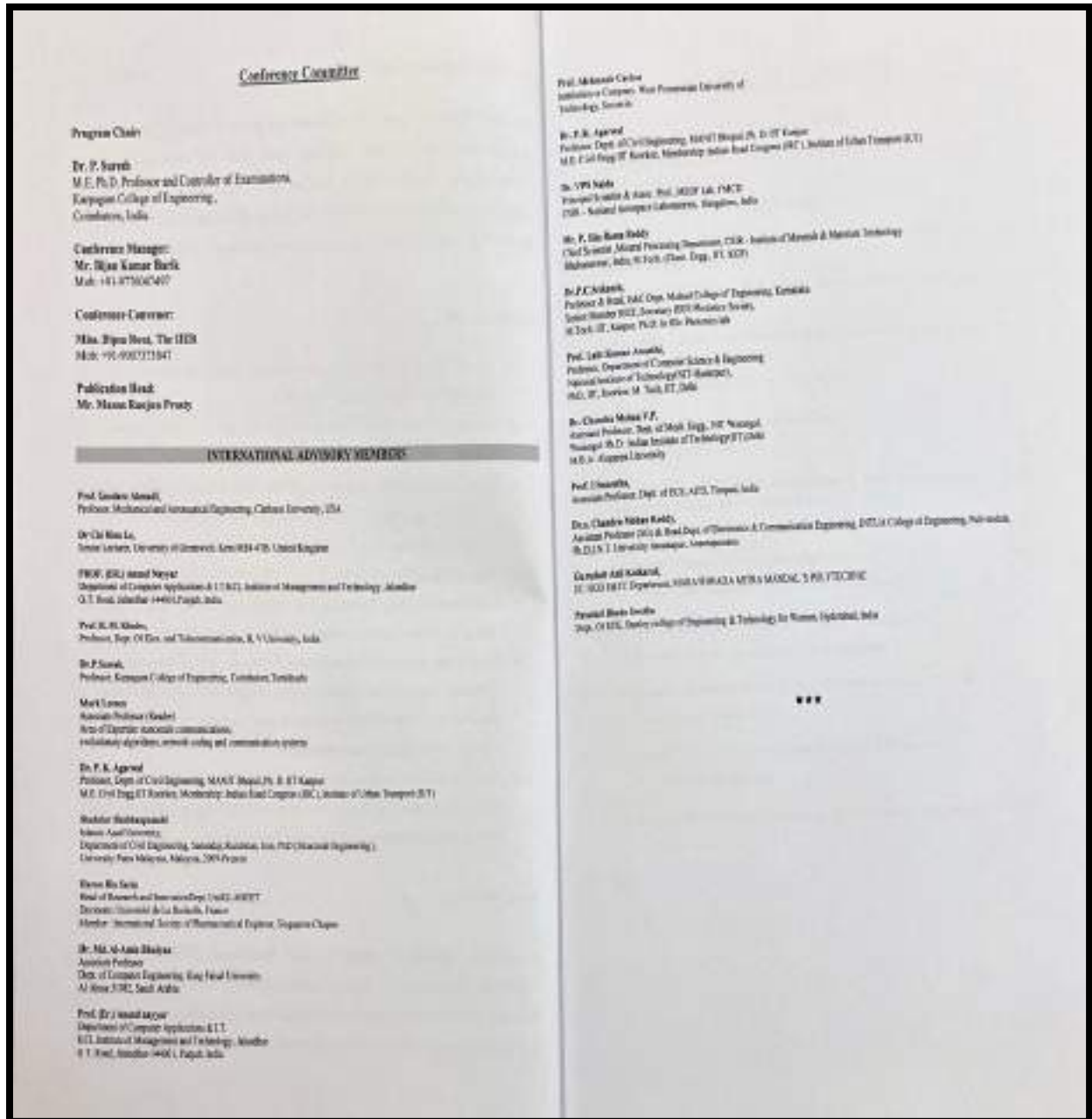
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## STUDY OF TRANSGENIC TECHNIQUES IN VEGETABLE CROPS

<sup>1</sup>KAUR RAJNEET, <sup>2</sup>JASMINE

<sup>1,2</sup>Department of Agriculture, G.K.S.M Government College, Tanda Urmar, Hoshiarpur, Punjab University, Chandigarh, Punjab, India

Email: <sup>1</sup>rajneetk390@gmail.com, <sup>2</sup>jasmine.narwa@gmail.com

**Abstract** - Genetically modified crop or transgenic crop enable breeder to bring favorable genes into elite cultivars and offer unique opportunities for controlling insects and other pathogens. FLAVR SAVR tomato was developed through the use of antisense RNA to regulate the expression of the enzyme polygalacturonase in ripening tomato fruit. Antifreeze proteins in the blood of some polar fishes have been shown to inhibit ice recrystallization at low concentrations. The *afu* antifreeze gene was expressed at high steady-state mRNA levels in leaves from transformed plants. Amount of Bt protein was present in all transgenic lines and plants expressing Cry2Ab could be used for management of the target lepidopteran insect pests. AmA) coding sequence was successfully introduced and expressed in potato tuber in constitutive manner. It was found that production and growth of tubers was increased, as well as protein content with an increase in most essential amino acids. Recently, a purple tomato highly enriched with anthocyanin was produced by the ectopic expression of two selected transcription factors from the ornamental flower snapdragon. In addition to being enriched with anthocyanin, these fruits also prolonged the life of cancer-susceptible mice, they have additional health-promoting effects. Transgenic crops basically improving production stability, nutritional benefits, reduce environmental impacts and increase the availability of pharmaceuticals and vaccines.

### 1. INTRODUCTION

Transgenic crops, generally referred as genetically modified crops, refers to the transfer of desirable gene between organisms through recombinant DNA techniques for cloning gene, splicing DNA segment together and inserting genes into cells. A transgenic crop is a plant whose genetic characteristics have been altered by human (Chahal and Gosal, 2010). The aim is to introduce new trait into a plant which does not occur naturally in the species. A transgenic plant contains a gene or genes that have been artificially inserted. The inserted gene sequence is known as the transgene, it may come from an unrelated plant or from a completely different species (Rani and Usha, 2013).

The whole process of introduction, integration and expression of foreign genes in the host is called genetic transformation (Chahal and Gosal, 2010). The purpose of inserting a combination of genes in a plant is to make it as useful and productive as possible. This process provides advantages like improving shelf life, higher yield, improved quality, pest resistance, tolerant to heat, cold and drought resistance, against a variety of biotic and abiotic stresses (Herbers and Soanewald, 1999).

#### What is transgenesis?

Transgenesis, as the word denotes, means transfer of genetic material i.e. DNA fragment carrying known genes from across the biological systems.

#### Why we make transgenic crops?

Traditionally, a plant breeder tries to exchange genes between two plants to produce offspring that have desired traits. This cross breeding, however, is limited to exchanges between the same or very closely related species. It can also take a long time to achieve

desired results. GM technology enables plant breeders to bring together in one plant useful genes from a wide range of living sources, not just from within the crop species or from closely related plants. This powerful tool allows plant breeders to do faster what they have been doing for years.

#### Importance of transgenics in agriculture

The biotechnological approaches can be used in the following conventional crop improvement programs:-

- Integrated gene management
- Integrated nutrient management
- Integrated pest management
- Water management
- Soil health care
- Post-harvest management

#### How are transgenic crops made?

Gene transfer methods have broadened the available gene pool as the gene may come to plants from unrelated plants, viruses, bacteria, fungi, insects, animals, human beings and even from chemical synthesis in the laboratory. Depending upon the mode of transfer of foreign gene to plants two types of methods i.e. vector mediated and direct gene transfer are usually applied.

#### Vector mediated gene transfer

- *Agrobacterium tumefaciens*
- *Agrobacterium rhizogenes*

#### Direct gene transfer (DGT)

- Physio-chemical uptake of DNA
- Liposome encapsulation
- Electroporation of protoplasts
- Microinjection
- DNA injection into intact plants
- Incubation of seeds with DNA

## EVALUATION OF GENETIC PARAMETERS AND DIVERGENCE IN WHEAT (TRITICUM SPECIES) GENOTYPES FOR YIELD AND YIELD CONTRIBUTING TRAITS

<sup>1</sup>JASMINE, <sup>2</sup>KAUR RAJNEET

<sup>1,2</sup>Department of Agriculture, G.K.S.M Government College, Tanda Urmur, Hoshiarpur, Panjab University, Chandigarh, Panjab, India

Email: <sup>1</sup>jasmine.nanra@gmail.com, <sup>2</sup>rajneetk390@gmail.com

**Abstract** - Studying genetic variability and divergence of quantitative traits and their contribution towards yield is prerequisite to meet the diversified goals of plant breeder for developing high yielding varieties with better quality, adaptability and resistivity. The present investigation was carried out to evaluate the genetic parameters and divergence in thirty genotypes of varieties in wheat *Triticum aestivum* L. and *Triticum durum* Desf. in agro-climatic conditions of Panjab. Analysis of variance showed highly significant differences among treatment for all the traits. High values of PCV were shown for number of productive tillers per plant (23.57), number of grains per plant (23.03) and grain yield per plant (g) (20.41), whereas moderate values of GCV were shown for number of productive tillers per plant (16.98), grain yield per plant (g) (13.63), number of grains per plant (13.00), biological yield per plant (g) (12.98), number of grains per spike (10.90) and spike length (cm) (19.21). The estimates of heritability recorded high for spike length (cm) (81.80), plant height (cm) (73.00) and peduncle length (cm) (70.50). High estimates of heritability coupled with moderate genetic advance as percent of mean was recorded for spike length (cm), plant height (cm) and peduncle length (cm). Therefore, a plant breeder should emphasize on these traits while practicing selection of high yielding wheat cultivars. Based on result of diversity, 30 genotypes were grouped into six clusters. Cluster I and cluster II had largest genotypes (89 each) followed by cluster IV (04). The inter-cluster distances were higher than intra-cluster distance, indicating wide genetic diversity among genotypes of different groups. The maximum inter-cluster distance was observed for cluster III ( $D^2=13.00$ ) followed by cluster II ( $D^2=8.31$ ). Cluster V and VI ( $D^2=66.56$ ) showed maximum inter-cluster distance indicating that crossing between the varieties of these clusters will create wide spectrum of variability in wheat followed by cluster II and VI ( $D^2=56.97$ ). Cluster VI exhibited highest mean value for biological yield per plant (g) (27.81), 1000-grain weight (g) (44.61), plant height (cm) (104.10), days to maturity (119.35) and number of productive tillers per plant (10.00). Further, cluster III had highest mean values for spike length (cm) (12.34), number of grains per plant (356.44) and grain yield per plant (g) (11.03), and lowest mean for days to maturity (116.73) i.e. early maturity genotypes were also found in this cluster. Thus, it may be suggested that crossing of genotypes from these clusters may be considered as donor parent for hybridization programme for creating desired variability as well as for effective selection criteria.

**Keywords** - Wheat, Variability, PCV, GCV, Heritability, Genetic advance and Divergence.

### I. INTRODUCTION

Wheat of both the tetraploid (*Triticum durum* Desf.) and hexaploid (*Triticum aestivum* L.), a self-pollinated crop is an ancient origin of agriculture, belongs to the family Gramineae and important food grain crop of the world which ranks first among cereals. In order to meet the growing demand for a swiftly growing population of food in the country, wheat yield per unit area could increase to the extent through it could bring itself out from insufficiency to a self-sufficient status. Grain yield is the principle quantitative character of cereal crops. Selection for desirable genotypes for improvement should not only based on yield alone, therefore, the other yield components should also be considered. For a successful utilization breeding programme, the presence of genetic variability plays a vital role. It is therefore, knowledge on genetic parameters such as genotypic and phenotypic coefficient of variation, heritability and genetic advance are paramount importance to practice selection criteria. Further, it is widely accepted that the information on germplasm diversity and genetic relatedness among elite breeding materials are also fundamental elements in

plant breeding (Ferdous et al. 2011). Divergence analysis is a useful tool in quantifying the degree of divergence between biological population of geographical level and to access in assessing relative contribution of different components to the total divergence both at intra and inter cluster levels (Amin et al. 2014). With this view, study of different genotypes were made with an attempt to generate information on variability and diversity among 30 wheat genotypes and the information thus obtained will be used to define suitable selection criteria for yield improvement in hybridization programme.

### II. METHOD AND MATERIAL

The present investigation was conducted during Rabi season 2017-18 at Research Farm, G.K.S.M Government College, Tanda Urmur (Hoshiarpur), India. The material comprised of thirty genotypes of wheat viz. DL-153-2, DBW-71, PBW-154, RAJ-1972, PBW-590, WL-711, UP-2425, PBW-34, PBW-226, WL-2265, HD-2270, PDW-314, KalayanSona, PBW-65, HD-2204, DBW-90, HD-2687, WH-1080, HD-2285, RAJ-3077, WH-1105, GW-120, HD-3043, PBW-175, HD-2281, RAJ-2184, DPW-621-50, HD-



# THE EFFECT OF PRE-TREATMENTS, PACKAGING AND STORAGE CONDITIONS ON FRUIT QUALITY OF PEACH (*Prunus persica* L Batsch) cv. FLORDASUN

<sup>1</sup>Ritu Thakur, <sup>2</sup>Dilip Singh Kachwaya and <sup>3</sup>Jasmine  
<sup>1,2,3</sup>Assistant Professor

<sup>1</sup>Department of Agriculture, Mata Gujri College, Sri Fatehgarh Sahib, Punjab, India

<sup>2</sup>Department of Agriculture, G.K.S.M. Government College, Tanda Urmar, Hoshiarpur, Punjab, India

## ABSTRACT

A study was carried out in entitled "The effect of pre-treatments, packaging and storage conditions on fruit quality of peach (*Prunus persica* L. Batsch) cv. Flordasun" at the Agricultural laboratory of Mata Gujri College, Sri Fatehgarh Sahib, Punjab (India) and Krishna Cold Storage Sirhind, Punjab (India) during the year 2016. The experiment was laid out in Completely Randomized Design (CRD) with five replications. At 6% concentration, pre-treatment of calcium chloride (CaCl<sub>2</sub>) and hot water (55°C) treatment was given for 10 minutes and 1 minute respectively. Further the treated fruits were packed in three packaging films viz. high density polyethylene (HDPE), low density polyethylene (LDPE) and cling film. Then packed fruits were stored under cold storage (0-1°C) and room temperature (30-35°C). Fruits samples were analysed for various chemical characteristics after 5 days of interval of storage (0, 5, 10, 15, and 20). Among all the treatments, T<sub>2</sub> (CaCl<sub>2</sub> + LDPE + Cold storage) treatment was found better than others in respect of characters viz. total soluble solids, titratable acidity, ascorbic acid and pH qualities. Moreover, T<sub>5</sub> (Hot water + Cling + Cold storage) exhibited maximum mean value for total sugars. Treatment T<sub>1</sub> showed minimum values of all the parameters studied. After analysing the present results it was concluded that treatment of T<sub>2</sub> (CaCl<sub>2</sub> + LDPE + Cold storage) might be suggested as effective and economical treatment for improving the quality of peach fruits.

**KEYWORDS:** Cling film, pH, LDPE, HDPE and ascorbic acid

## INTRODUCTION

Peach (*Prunus persica* L. Batsch) belongs to the family Rosaceae, is one of the most important fruits grown in the temperate zone of the world (Pongener *et al.*, 2010). During 2014-15, total world production of peach is 20,035 metric tons (U.S.D.A., 2015). In India, total area of peach during 2014-15 over 19000 hectares with the production of 97000 metric tons. In Punjab during 2014-15, it is grown on 1720 hectares with the production of 305300 metric tons (Anonyms).

The best way to maintain the quality of fresh fruits is probably by conditioning them in adequate temperature through the supply chain (Bretch *et al.*, 2003). It is therefore significant to avoid quick deterioration of peach in order to present its commercial quality. The combination of both post harvest treatments (CaCl<sub>2</sub> and hot water treatment) in fruits can help in increasing fruit shelf-life and reducing commercial losses (Sohail *et al.*, 2015). Use of polymeric film is very pronounced in packaging of fruits with a purpose to extend their storage life. Storage temperature is a key factor affecting the general metabolism of the fruit. At low temperature CO<sub>2</sub> and ethylene production is low and climacteric respiration is delayed (Hu and Ding, 1993). Cold storage of peach and nectarines after harvest is necessary to minimize excessive softening, quality loss and decay and to prolong time for marketing (Celik *et al.*, 2006). The packaging and storage environment greatly affect the post-harvest storage life and quality of peach fruits (Gupta and Jawandha, 2012). Therefore, the present investigation was made to prevent from post-harvest losses and to



# STUDIES ON INFLUENCE OF INTEGRATED NUTRIENT MANAGEMENT ON GROWTH AND YIELD ATTRIBUTES OF CAULIFLOWER (*Brassica oleracea* L. var. *botrytis*)

<sup>1</sup>Parvinder Singh, <sup>2</sup>Sanjeev Kumar Singh, <sup>3</sup>Rita Thakur and <sup>4</sup>Jasmin

<sup>1,2,3</sup>Assistant Professor

<sup>1,2,3</sup>Department of Agriculture, Mata Gujri College, Fatehgarh Sahib, Punjab, India

<sup>4</sup>Department of Agriculture, G.K.S.M. Government College Tanda Umar, Hoshiarpur, Punjab, India

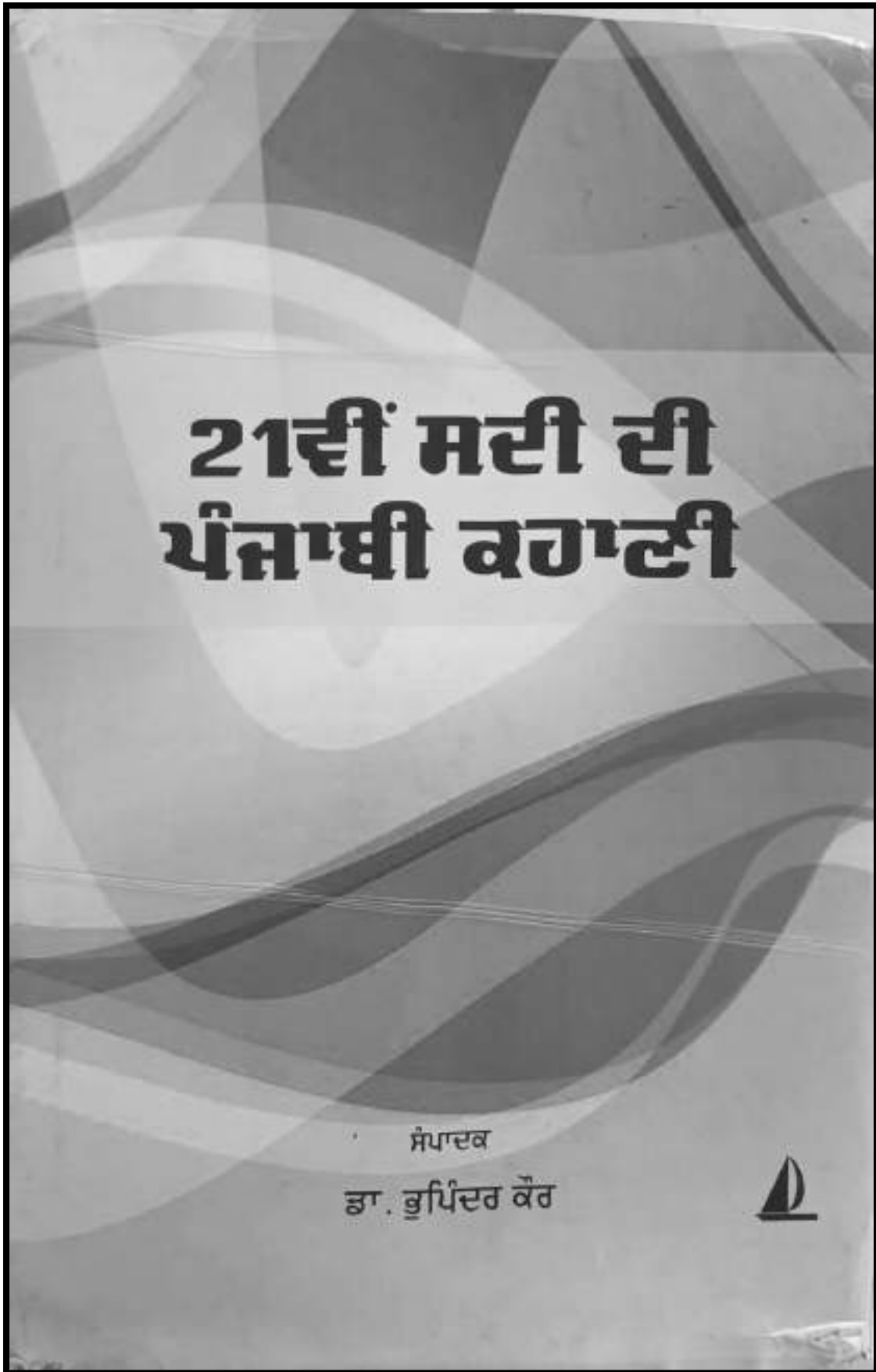
## Abstract

The present investigation entitled "Effect of integrated nutrient management on growth, yield and quality of cauliflower (*Brassica oleracea* L. var. *botrytis*)" was conducted during 2015 at the experimental farm, Department of Agriculture, Mata Gujri College, Fatehgarh Sahib, Punjab, India. The experiment was laid out in a randomized block design with three replications and nine treatments. The treatments consisted of T<sub>1</sub>: Control, T<sub>2</sub>: 100% RDF (NPK @ 125:62.5:62.5 kg ha<sup>-1</sup>), T<sub>3</sub>: Vermicompost, T<sub>4</sub>: 100% RDF + Biofertilizers, T<sub>5</sub>: 75% RDF + Biofertilizers, T<sub>6</sub>: 100% RDF + Vermicompost, T<sub>7</sub>: 75% RDF + Vermicompost, T<sub>8</sub>: 100% RDF + Vermicompost + Biofertilizers and T<sub>9</sub>: 75% RDF + Vermicompost + Biofertilizers. Application of different levels of fertilizers in combination with organic manures and biofertilizers significantly increased the growth and yield of cauliflower. The maximum plant height (33.25 cm), plant spread (66.12 cm), leaf length (31.80 cm), leaf width (18.53 cm), number of leaves (15.77), stalk length (10.84 cm), fresh weight of leaves (570 g), days to curd initiation (84), curd diameter (12.91 cm), curd length (10.69 cm), average curd weight (485.38 g) and curd yield per hectare (35.97 t) were recorded with the combined application of 100 per cent RDF + biofertilizers + vermicompost. Whereas, maximum net returns of Rs. ₹ 1,76,434 along with benefit: cost ratio (2.53:1) were recorded with the conjoint application of 75 per cent RDF + biofertilizers + vermicompost.

**Keywords:** Biofertilizer, vermicompost, growth and yield

## INTRODUCTION

Cauliflower (*Brassica oleracea* L. var. *botrytis*) is one of the most important vegetable crop belonging to Cruciferae family, botanically referred to as the genus *Brassica*. It is grown for its highly suppressed 'prefloral fleshy apical meristem' branches called "curd". Biofertilizers inoculation in vegetable crops has been of much significance as they supply the atmospheric nitrogen and phosphorus in available forms and synthesis of biological growth promoting substances (Kachari and Korla, 2012). Vermicompost contains nutrients in form which is readily taken by the plants such as nitrates, exchangeable phosphorus and soluble potassium, calcium, and magnesium. The water soluble components of vermicompost such as humic acid, growth regulators, vitamins, micronutrients and beneficial microorganism increases the availability of plant nutrients, results in increased growth and higher yield (Chatterjee, 2010). Continuous use of inorganics without organics reported deficiencies of nutrients, which might result in the decline in the productivity and poor soil health (Savri, 2012). The use of biofertilizers in combination with chemical fertilizers and organic manures offers a great opportunity to increase the production as well as quality of cauliflower (Shree *et al.*, 2014). The incorporation of organic nutrients in the form of vermicompost, farmyard manure and biofertilizer is known to influence favorably the physico-chemical and biological properties of the soil resulting in enhanced uptake of nutrients from soil (Lal and Kanaujia, 2013). The integrated nutrient management overcomes these problems, which involves conjunctive use of chemical fertilizers and organic manures to sustain crop production as well as maintenance of soil health. Systematic approach to nutrient



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ਪ੍ਰੋ. ਕੁਲਵਿੰਦਰ ਕੌਰ \*

21ਵੀਂ ਸਦੀ ਦੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੇ ਬਿਰਤਾਂਤ ਸ਼ਾਸਤਰ ਦੇ ਖੇਤਰ ਵਿੱਚ ਕਿਰਦਾਨ ਪਾਉਣ ਵਾਲਾ ਚਿੰਤਕ ਵਲਾਦੀਮੀਰ ਪਰਾਪ ਹੈ। ਜਿਸ ਨੂੰ ਆਧੁਨਿਕ ਬਿਰਤਾਂਤ ਸ਼ਾਸਤਰ ਦਾ ਬੰਮੁ ਮੰਨਿਆ ਜਾਂਦਾ ਹੈ। ਪਰਾਪ ਅਨੁਸਾਰ ਬਿਰਤਾਂਤਕ ਰਚਨਾ ਦੀ ਛੋਟੀ ਤੋਂ ਛੋਟੀ ਇਕਾਈ ਪ੍ਰਕਾਰਜ (Function) ਹੁੰਦੀ ਹੈ। ਪ੍ਰਕਾਰਜ ਤੋਂ ਭਾਵ ਕਿਸੇ ਪਾਤਰ ਦੁਆਰਾ ਕੀਤਾ ਗਿਆ ਅਜਿਹਾ ਕਾਰਜ ਹੈ ਜਿਹੜਾ ਸਥਿਤੀ ਵਿੱਚ ਬਦਲਾਵ ਲਿਆਉਂਦਾ ਹੈ। ਉਸਨੇ ਕਹਾਣੀ ਦਾ ਮੂਲ ਪ੍ਰਕਾਰਜ ਬਿਰਤਾਂਤਕ ਰਚਨਾਵਾਂ ਦੇ ਸਮੁੱਚੇ ਪਾਤਰਾਂ ਦੀਆਂ ਕਹਾਣੀਆਂ ਨੂੰ ਖਲਨਾਇਕ, ਦਾਤਾ, ਸਹਾਇਕ, ਪ੍ਰਾਪਤ ਕਰਤਾ, ਭੇਜਣ ਵਾਲਾ, ਨਾਇਕ ਅਤੇ ਝੂਠੇ ਨਾਇਕ ਦੇ ਰੂਪ ਵਿੱਚ ਪੇਸ਼ ਕੀਤਾ ਹੈ। ਡਾ. ਧਨਵੰਤ ਕੌਰ ਅਨੁਸਾਰ,

“21ਵੀਂ ਸਦੀ ਦੀ ਸਿਰਜਣਸ਼ੀਲਤਾ ਦੀਆਂ ਸੰਭਾਵਨਾਵਾਂ ਇਸ ਚੁਣੌਤੀ ਨੂੰ ਸਿਝਣ ਵਿੱਚ ਨਿਹਿਤ ਹਨ। ਤਸੱਲੀ ਵਾਲੀ ਗੱਲ ਇਹ ਹੈ ਕਿ ਪੰਜਾਬੀ ਕਹਾਣੀ ਵਿੱਚ ਇਸ ਉਸਾਰੂ ਸੰਵੇਦਨਾ ਦੇ ਚਿੰਨ੍ਹ ਸਪਸ਼ਟ ਦਿਖਾਈ ਦੇ ਰਹੇ ਹਨ। ਅਜੋਕੀ ਕਹਾਣੀ ਨੇ ਇਸ ਚੁਣੌਤੀ ਨੂੰ ਕਬੂਲਿਆਂ ਹੀ ਨਹੀਂ, ਆਪਣੀ ਬਿਰਤਾਂਤਕ ਸਮੱਰਥਾ ਨੂੰ ਵੀ ਬਹੁਪੱਖੀ, ਬਹੁਸੁਰੀ ਬਣਾਇਆ ਹੈ। ਸੱਚ ਤਾਂ ਇਹ ਹੈ ਕਿ ਇਸ ਚੁਣੌਤੀ ਨੂੰ ਕਬੂਲਣ ਵਾਲੇ ਕਹਾਣੀਕਾਰ ਹੀ ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੇ ਵਿਕਾਸ ਵਿੱਚ ਅਹਿਮ ਭੂਮਿਕਾ ਨਿਭਾ ਰਹੇ ਹਨ।”

ਬਿਰਤਾਂਤਕਾਰ ਬਿਰਤਾਂਤਕਤਾ ਅਤੇ ਪਾਠਕ ਦੀਆਂ ਮਹੱਤਵਪੂਰਨ ਇਕਾਈਆਂ ਦੇ ਪ੍ਰਬੰਧ ਨੂੰ ਛੁੰਘਾਈ ਵਿੱਚ ਸਮਝਣ ਲਈ ਬਿਰਤਾਂਤ ਦੇ ਪੰਜ ਪੱਧਰਾਂ ਭਾਵ, ਪ੍ਰਕਾਰਜ, ਕਾਰਜ, ਬਿਰਤਾਂਤੀਕਰਨ ਅਤੇ ਬਿਰਤਾਂਤਨ ਸੰਗਠਨ ਨੂੰ ਅੰਤਰ ਸੰਬੰਧਤ ਕਰਦਾ ਹੈ। ਬਿਰਤਾਂਤ ਸ਼ਾਸਤਰ ਨੂੰ ਵਿਗਿਆਨਕ ਸਰੂਪ ਪ੍ਰਦਾਨ ਕਰਨ ਵਾਲਿਆਂ ਵਿਚੋਂ ਤੋਂਦੋਰੋਵ ਦਾ ਨਾਂ ਪ੍ਰਮੁੱਖ ਹੈ। ਉਹ ਕਿਸੇ ਬਿਰਤਾਂਤਕ ਹੋਂਦ ਦੇ ਤਿੰਨ ਪੱਖਾਂ ਸ਼ਾਬਦਿਕ (Verbal),

\*ਲੈਕਚਰਾਰ, ਸਰਕਾਰੀ ਕਾਲਜ ਟਾਂਡਾ



# ਗੁਰਦਿਆਲ ਸਿੰਘ ਦੇ ਨਾਵਲ: ‘ਅੰਨ੍ਹੇ ਘੋੜੇ ਦਾ ਦਾਨ’ ਅਤੇ ‘ਆਥਣ-ਉੱਗਣ’

ਇੱਕ ਅਧਿਐਨ



ਕੁਲਵਿੰਦਰ ਕੌਰ

**INTERNATIONAL PUBLISHERS****REPRESENTATION OFFICES**

- 596 Street, Madera, California-93638
- 8 Automatic Rd, Unit 2C, Brampton L6S 3N5, Canada

ISBN: 978-93-89159-62-2

Gurdial Singh De Naval:

Anne ghorey Da Daan Ate Athan-Ughan Ek Adhyan

by

**Kulwinder Kaur**

varinderkumar449@gmail.com

2019

Published Lokgeet Parkashan  
 printed & bound by Unistar Books Pvt. Ltd.  
 301, Industrial Area, Phase-9,  
 S.A.S. Nagar, Mohali-Chandigarh (India)  
 email : unistarbooks@gmail.com  
 website : www.unistarbooks.com  
 Ph. +91-172-5027427, 5027429, 4027552

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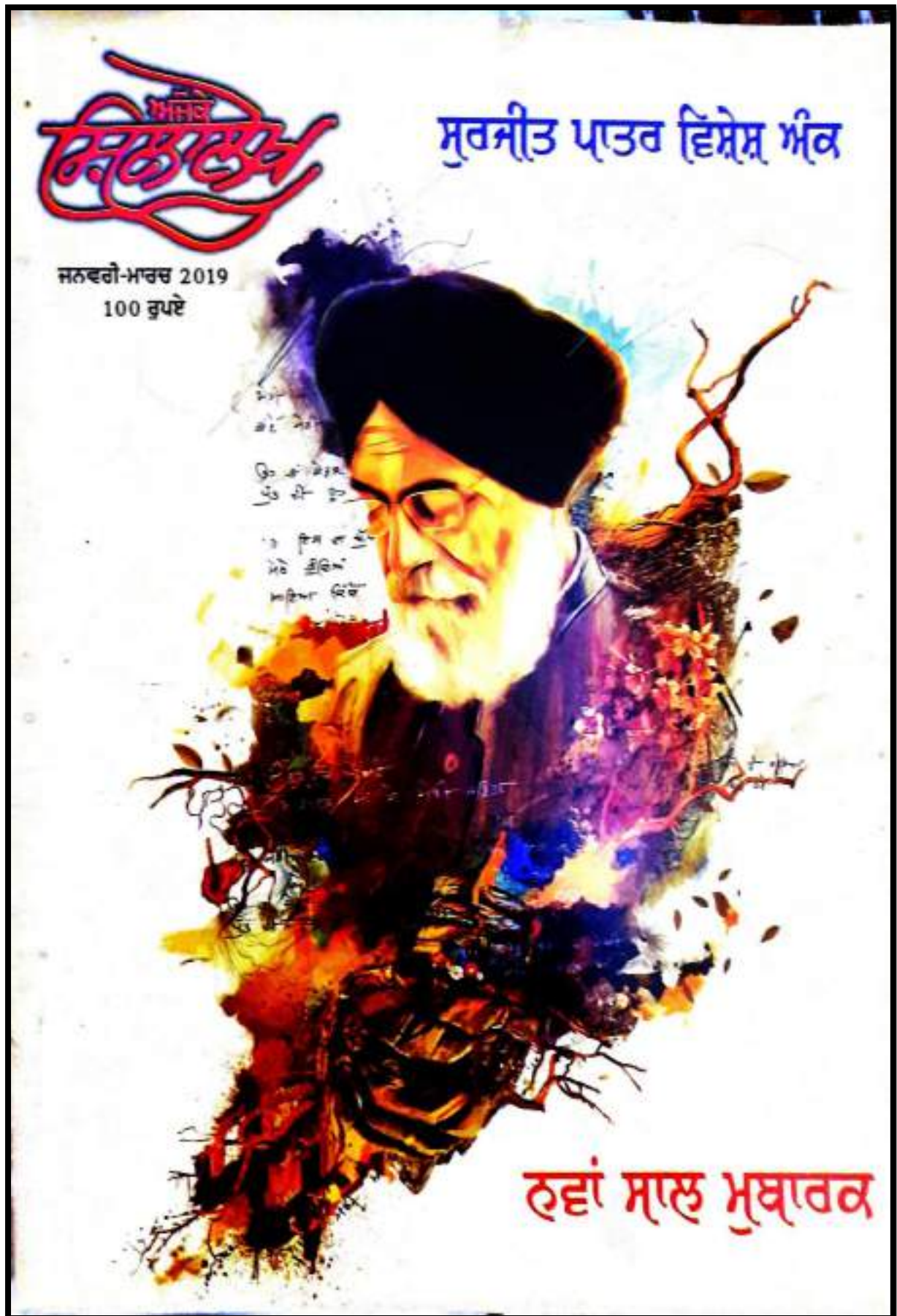
ਮੈਂ ਹੱਥਲੀ ਪੁਸਤਕ ਵਿੱਚ ਉਸਦੇ ਦੋ ਨਾਵਲਾਂ 'ਅੰਨ੍ਹੇ ਘੋੜੇ ਦਾ ਦਾਨ' ਅਤੇ 'ਆਥਣ-ਉੱਗਣ' ਦਾ ਆਪਣੀ ਸੋਚ ਅਨੁਸਾਰ ਅਧਿਐਨ ਕਰਨ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਹੈ। ਇਨ੍ਹਾਂ ਦੋਹਾਂ ਨਾਵਲਾਂ ਦਾ ਅਧਿਐਨ ਕਰਨ ਸਮੇਂ ਨਾਵਲਾਂ ਵਿੱਚ ਪੇਸ਼ ਪਾਤਰਾਂ ਦੇ ਜੀਵਨ ਦੇ ਸੱਚ ਅਤੇ ਰਹੱਸ ਦੀਆਂ ਡੂੰਘੀਆਂ ਤੈਹਾਂ ਤੱਕ ਪਹੁੰਚਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਹੈ। ਨਾਵਲਾਂ ਵਿੱਚ ਨਾਵਲਕਾਰ ਨੇ ਇਹ ਦੱਸਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕੀਤੀ ਹੈ ਕਿ ਮਨੁੱਖ ਦੇ ਸਾਹਮਣੇ ਜੇ ਇੱਕ ਪਾਸੇ ਤਨ ਦੀਆਂ ਲੋੜਾਂ ਪੂਰੀਆਂ ਕਰਨ ਦੀ ਮਜ਼ਬੂਰੀ ਹੈ ਜੋ ਉਸਨੂੰ ਇਤਿਹਾਸ ਦੇ ਸੱਚ ਨਾਲ ਜੋੜਦੀ ਹੈ ਅਤੇ ਆਪਣਾ ਫਰਜ਼ ਪਛਾਣਨ ਦੀ ਪ੍ਰੇਰਨਾ ਦਿੰਦੀ ਹੈ ਅਤੇ ਦੂਜੇ ਪਾਸੇ ਜੀਵਨ ਦਾ ਅੰਤਿਮ ਰਹੱਸ ਜਾਨਣ ਦੀ ਅਥਾਹ ਲੋਚਾ ਵੀ ਹੈ।

ਉਸਦੀ ਪੇਸ਼ਕਾਰੀ ਦਾ ਢੰਗ ਯਥਾਰਥਵਾਦੀ ਹੋਣ ਕਰਕੇ ਅਤੇ ਅਸਧਾਰਨ ਮਨੁੱਖਤਾ ਦੇ ਸਧਾਰਨ ਜੀਵਨ ਦੀ ਪੇਸ਼ਕਾਰੀ ਕਰਨ ਕਰਕੇ ਜ਼ਿਆਦਾਤਰ ਪਾਠਕਾਂ ਨੂੰ ਪ੍ਰਭਾਵਿਤ ਕਰਦਾ ਹੈ। ਉਸਦੀ ਰਚਨਾ ਸਮਗਰੀ ਭਾਵੇਂ ਸਾਹਿਤ ਦੀ ਕਿਸੇ ਵੀ ਵੰਨਗੀ ਦੀ ਪੇਸ਼ਕਾਰੀ ਕਰਦੀ ਹੈ, ਪਾਠਕਾਂ ਦੇ ਹਾਣ ਦੀ ਹੋ ਨਿਬੜਦੀ ਹੈ।

-ਕੁਲਵਿੰਦਰ ਕੌਰ







ਸਰਪ੍ਰਸਤ: ਸ੍ਰੀ ਪੂਰਨ ਖਿਆਸਾ  
1995 ਤੋਂ ਲਗਾਤਾਰ ਪ੍ਰਕਾਸ਼ਿਤ ਹੋ ਰਿਹਾ



ਜਨਵਰੀ-ਮਾਰਚ 2019

100 ਰੁਪਏ

ਸੰਪਾਦਕ

ਜੋਗਿੰਦਰ ਕੈਰੋ

(M) 82643-06671 js\_kairon@yahoo.co.in

ਡਾ. ਰਵਿੰਦਰ

(R) 01871-285053, (M) 98724-82378, ravihosp@gmail.com

ਪਰਵਾਸੀ ਸੰਪਾਦਕ

ਮਹਿਤਾਬ ਸਿੰਘ ਕਾਹਲੌਂ (M) 001-7039441110 USA

ਹਰਮਨਪ੍ਰੀਤ ਸਿੰਘ ਪਨੂੰ (M) 001-2099680400 USA

ਪ੍ਰਬੰਧਕੀ ਸੰਪਾਦਕ

ਸ. ਨਰਿੰਦਰਪਾਲ ਸਿੰਘ

(M) 98883-24402 kgt\_nps@yahoo.co.in

'ਅਜੋਕੇ ਸਿਲਾਲੇਖ' ਮੈਗਜ਼ੀਨ 5 ਸਾਲ ਲਈ ਮੰਗਵਾਉਣ ਵਾਸਤੇ 1000/- ਰੁਪਏ ਚੰਦਾ ਭੇਜ ਕੇ ਜਾਂ ਸਾਡੇ ਬੈਂਕ ਅਕਾਊਂਟ ਵਿਚ ਪੈਸੇ ਜਮ੍ਹਾਂ ਕਰਵਾ ਕੇ ਪ੍ਰਾਪਤ ਕਰ ਸਕਦੇ ਹੋ, ਜਿਸ ਦਾ ਨੰਬਰ ਇਸ ਪ੍ਰਕਾਰ ਹੈ:  
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ਪ੍ਰੋਫੈਸਰ ਐਮੀਰਟਸ,  
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ਪ੍ਰਿੰਸੀਪਲ, ਬਾਬਾ ਬੁੱਢਾ ਕਾਲਜ, ਤਰਨਤਾਰਨ
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- **ਡਾ. ਭੂਪਿੰਦਰ ਸਿੰਘ ਖਹਿਰਾ**  
ਸਾਬਕਾ ਮੁਖੀ, ਪੱਤਰ ਵਿਹਾਰ ਵਿਭਾਗ,  
ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
- **ਡਾ. ਨਾਚਰ ਸਿੰਘ**  
ਸਾਬਕਾ ਮੁਖੀ, ਪੰਜਾਬੀ ਵਿਭਾਗ,  
ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ

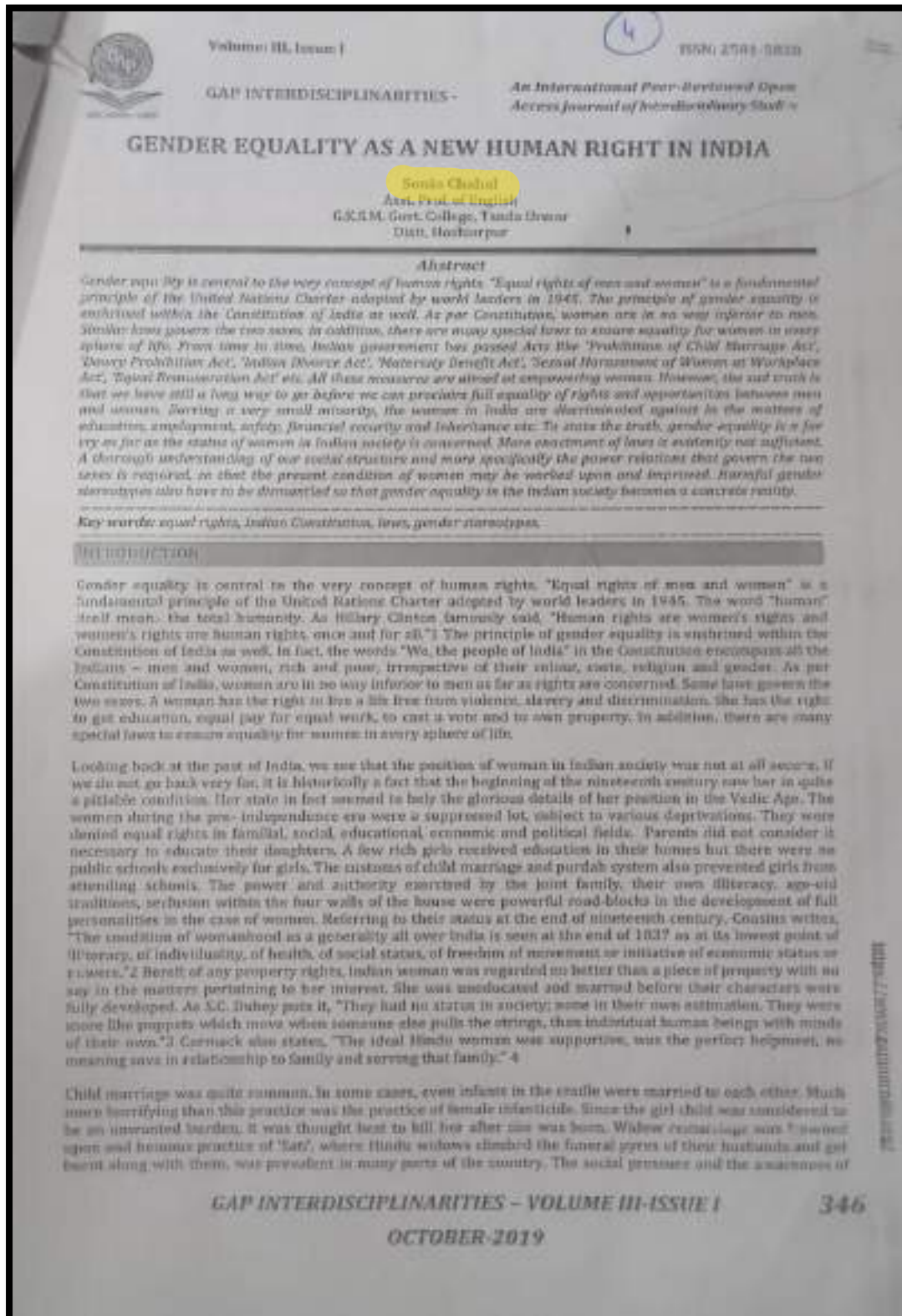
ਟਾਈਟਲ ਬਿਜਾਈਨ: ਅੰਕੁਰ ਸਿੰਘ ਪਾਤਰ

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- ਹਰਦੀਪ ਕੌਰ

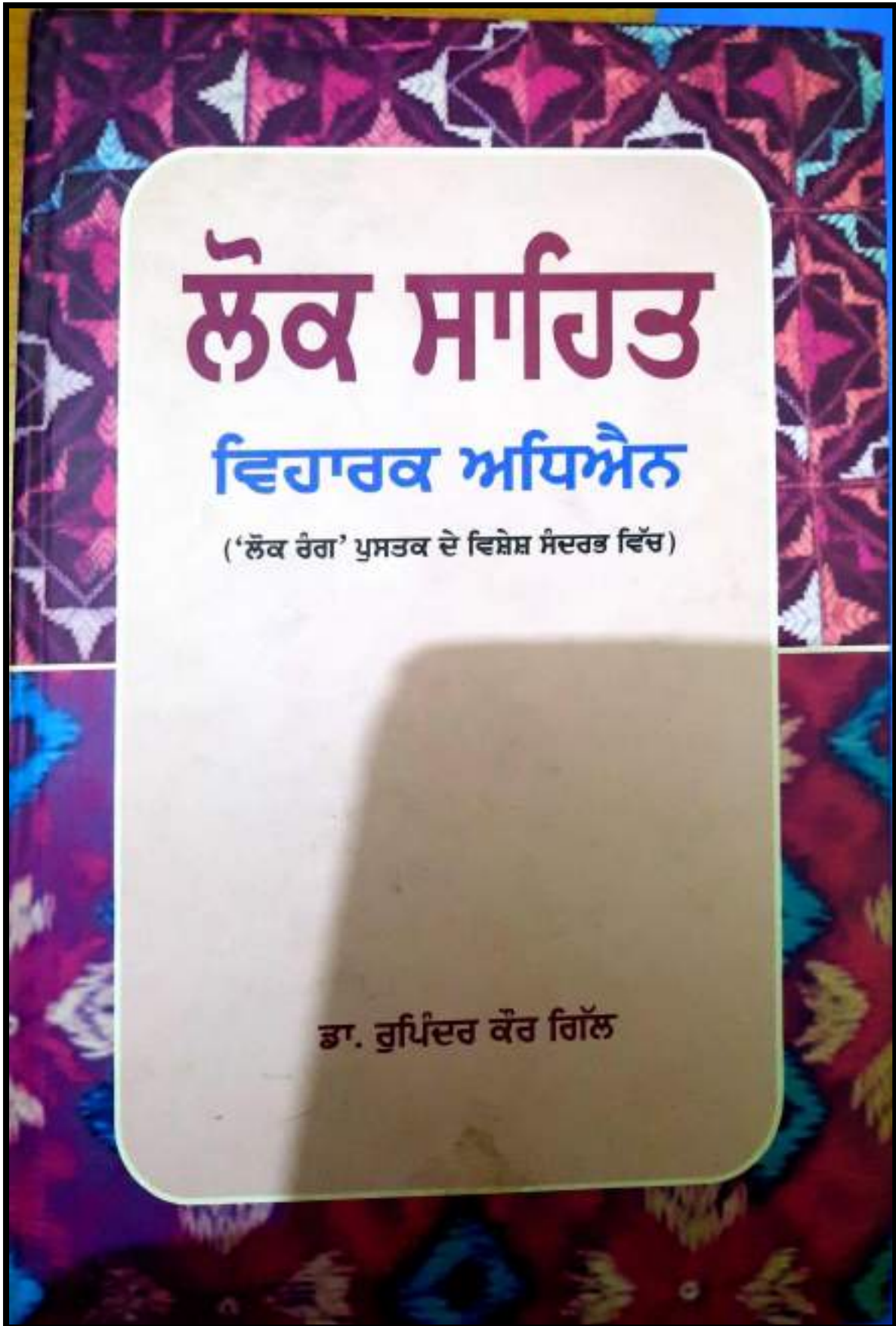


2019-2020









**LOK SAHIT : VIHARAK ADHYAN**  
 ('Lok Rang' pustak de vishesh sandarbh vich)

by

**Dr. Rupinder Kaur Gill**

593, Ward No. 8, Keharwali,

DASUYA (Hoshiarpur)

Ph. 98556-18513

ISBN 978-93-87711-30-3

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ਪ੍ਰਕਾਸ਼ਨ ਵਰ੍ਹਾ : 2019

ਮੁੱਲ : 200 ਰੁਪਏ

ਪ੍ਰਕਾਸ਼ਕ

**ਕੇ.ਜੀ. ਗ੍ਰਾਫਿਕਸ**

ਬੁਥ ਨੰ. 8, ਪਹਿਲੀ ਮੰਜ਼ਿਲ, ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀ. ਮਾਰਕੀਟ,  
 ਡਾਕ. ਖਾਲਸਾ ਕਾਲਜ, ਜੀ.ਟੀ. ਰੋਡ, ਅੰਮ੍ਰਿਤਸਰ। (ਮੋ.) 9888324402

ਪ੍ਰਿੰਟਰ

**ਐਮ.ਐੱਸ. ਪ੍ਰਿੰਟਰਜ਼.**

ਰਾਮਤੀਰਥ ਰੋਡ, ਅੰਮ੍ਰਿਤਸਰ

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ਪੰਜਾਬੀ ਦੇ ਲੋਕ ਸਾਹਿਤ ਨੂੰ ਪੰਜਾਬੀ ਲੋਕ-ਮਾਨਸ ਦੇ ਸਭ ਤੋਂ ਨੇੜੇ ਹੋਣ ਦਾ ਮਾਣ ਪ੍ਰਾਪਤ ਹੈ। ਪੰਜਾਬ ਦੇ ਲੋਕ ਗੀਤ, ਲੋਕ ਕਹਾਣੀਆਂ, ਬਾਤਾਂ, ਬੁਝਾਰਤਾਂ ਆਦਿ ਪੰਜਾਬੀਆਂ ਦੇ ਮਨ-ਪ੍ਰਚਾਵੇ ਦਾ ਸਾਧਨ ਹੀ ਨਹੀਂ ਬਣੇ ਸਗੋਂ ਦੁੱਖ-ਸੁੱਖ ਦੇ ਭਾਈਵਾਲ ਵੀ ਰਹੇ ਹਨ। ਬਾਤਾਂ, ਮਿੱਥ ਕਥਾਵਾਂ, ਦੰਤ ਕਥਾਵਾਂ, ਪਰੀ ਕਥਾਵਾਂ, ਜਨੌਰ ਕਥਾਵਾਂ ਅਤੇ ਨੀਤੀ ਕਥਾਵਾਂ ਤੋਂ ਪੰਜਾਬੀਆਂ ਨੇ ਜ਼ਿੰਦਗੀ ਜਿਉਣ ਦੇ ਦਾਅ ਸਿੱਖੇ ਹਨ। ਇਨ੍ਹਾਂ ਦਾਅ-ਪੇਚਾਂ ਸਦਕਾ ਪੰਜਾਬੀ ਬਾਹਰੀ ਹਮਲਿਆਂ ਅਤੇ ਰਾਜਨੀਤਿਕ ਉੱਥਲ-ਪੁੱਥਲ ਦਾ ਸਾਹਮਣਾ ਕਰਦੇ ਹੋਏ ਵੀ ਜ਼ਿੰਦਗੀ ਦੇ ਸਾਹ-ਸਵਾਰ ਬਣੇ ਰਹੇ। ਜ਼ਿੰਦਗੀ ਨੂੰ ਅਸਲ ਅਰਥਾਂ ਵਿੱਚ ਸਮਝਦੇ ਤੇ ਮਾਣਦੇ ਰਹੇ। “ਲੋਕ ਕਥਾ ਕਿਸੇ ਵੀ ਸੱਭਿਆਚਾਰ ਸਮੂਹ ਦੇ ਅਨੁਭਵ, ਅਕਾਂਖਿਆਵਾਂ ਦਾ ਸਥੂਲ ਅਤੇ ਠੋਸ ਸਮੇਂ ਸਥਾਨ ਵਿਚਕਾਰ ਵਾਪਰੀਆਂ ਘਟਨਾਵਾਂ ਦਾ ਨਿਸ਼ਚਿਤ ਕ੍ਰਮਿਕ ਪ੍ਰਬੰਧ ਹੁੰਦੀ ਹੈ, ਜਿਸ ਵਿੱਚ ਪਾਤਰਾਂ ਦੇ ਕਾਰਜਾਂ/ਘਟਨਾਵਾਂ ਨੂੰ ਇਕ ਮੂਲ ਥੀਮਕ ਸੰਗਠਨ ਵਿੱਚ ਬਿਰਤਾਂਤਕਾਰੀ ਵਿਧੀ ਰਾਹੀਂ ਸਮੂਹਿਕ ਲੋਕਾਂ ਦੁਆਰਾ ਸਿਰਜ ਕੇ ਮੌਖਿਕ ਪ੍ਰਸਾਰਿਤ ਕੀਤਾ ਜਾਂਦਾ ਹੈ।”

ਪੁਰਾਤਨ ਸਮਿਆਂ ਵਿੱਚ ਪੰਜਾਬੀ ਸੁਆਣੀ ਗਰਭ ਵਿੱਚ ਪਲ ਰਹੇ ਬੱਚੇ ਨਾਲ ਅਛੋਪਲੇ ਜਿਹੇ ਕਈ ਵਾਰ ਸੰਵਾਦ ਰਚਾਉਂਦੀ ਅਤੇ ਗਰਭ ਵਿਚ ਹੀ ਉਸਨੂੰ ਲੋਕ ਸਾਹਿਤ ਦੀ ਗੁੜ੍ਹਤੀ ਦਿੰਦੀ ਰਹਿੰਦੀ। ਹੁਣ ਤਾਂ ਵਿਗਿਆਨਿਕ ਖੋਜਾਂ ਨੇ ਵੀ ਇਹ ਸਿੱਧ ਕੀਤਾ ਹੈ ਕਿ ਗਰਭ ਅਵਸਥਾ ਵਿੱਚ ਮਾਂ ਜੋ ਸੋਚਦੀ ਹੈ, ਬੋਲਦੀ ਹੈ, ਸੁਣਦੀ ਹੈ ਜਾਂ ਚਿਤਵਦੀ ਹੈ ਉਸਦਾ ਕੁੱਝ ਨਾ ਕੁੱਝ ਅਸਰ ਗਰਭ ਵਿੱਚ ਪਲ ਰਹੇ ਬੱਚੇ ਤੇ ਜ਼ਰੂਰ ਹੁੰਦਾ ਹੈ। ਬੱਚੇ ਦੇ ਜਨਮ ਤੋਂ ਕੁਝ ਸਮਾਂ ਬਾਅਦ ਜਦੋਂ ਉਹ ਹੁੰਗਾਰਾ ਭਰਨਾ ਸ਼ੁਰੂ ਕਰਦਾ ਹੈ ਤਾਂ ਉਸ ਵੇਲੇ ਤੋਂ ਹੀ ਉਸਨੂੰ ਨਿੱਕੀਆਂ-ਨਿੱਕੀਆਂ ਕਹਾਣੀਆਂ ਸੁਣਾਈਆਂ ਜਾਂਦੀਆਂ। ਮਾਂ ਅਤੇ ਦਾਦੀ-ਦਾਦੇ ਦੀ ਗੋਦ ਦਾ ਨਿੱਘ ਮਾਣਦਾ ਬੱਚਾ ਚਿੜੀ-ਕਾਂ ਦੀ ਕਹਾਣੀ ਸੁਣਦਾ-ਸੁਣਦਾ ਮੰਤਰ-ਮੁਗਧ ਹੋ ਜਾਂਦਾ। ਇੰਝ ਧਿਆਨ ਸਾਧਨਾ ਨਾਲ ਉਸ ਦੀ ਸੋਚ ਅਤੇ ਯਾਦ-ਸ਼ਕਤੀ ਵਿਕਸਿਤ ਹੁੰਦੀ। ਸੁੱਤੇ ਉਠਦਿਆਂ ਚਿੜੀਆਂ ਦੀ ਚੀਂ-ਚੀਂ ਅਤੇ ਕਾਵਾਂ ਦੀ ਕਾਂ-ਕਾਂ ਸੁਣ ਕੇ ਸੁੱਤੇ-ਸਿੱਧ ਹੀ ਰਾਤ ਦੀ ਸੁਣੀ ਕਹਾਣੀ ਉਸਦੇ ਚੇਤੇ ਵਿੱਚ ਤਾਜ਼ਾ ਹੋ ਜਾਂਦੀ। ਬੱਚੇ ਵਧੇਰੇ ਕਰਕੇ ਸੁਪਨਮਈ ਸੰਸਾਰ ਵਿੱਚ ਵਿਚਰਦੇ ਹਨ। ਬਚਪਨ ਜਿੰਨਾ ਛੋਟਾ ਹੁੰਦਾ ਹੈ ਉਸਦੇ ਸੁਪਨੇ ਓਨੇ ਵੱਡੇ ਹੁੰਦੇ ਹਨ। ਲੋਕ ਕਹਾਣੀਆਂ ਦਾ ਸੰਸਾਰ ਵੀ ਵਧੇਰੇ ਕਰਕੇ ਕਲਪਨਾ ਭਰਪੂਰ ਹੁੰਦਾ ਹੈ। ਇਸ ਲਈ ਇਹ ਲੋਕ ਕਹਾਣੀਆਂ ਜਿੱਥੇ ਬੱਚਿਆਂ ਦੀ ਅਲੌਕਿਕ ਵਰਤਾਰੇ ਪ੍ਰਤੀ

ISSN 2348-3598

**VISION**  
**An International**  
**Journal**  
**of**  
**Humanities and Management**

Vol. VI      Issue 6      April 2019      Annual



## **Dasmesh Girls College**

Chak Alla Baksh Mukerian  
(Affiliated to Panjab University Chandigarh)  
Accredited 'A' Grade by NAAC  
Website: [www.dgcmukerian.org](http://www.dgcmukerian.org)  
E-mail: [dgc\\_chakallabaksh17@rediffmail.com](mailto:dgc_chakallabaksh17@rediffmail.com)  
[dgc\\_ijohm14@rediffmail.com](mailto:dgc_ijohm14@rediffmail.com)  
Ph:01883-247895, M:94651-37136, Fax:01883-247995

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## ਮੋਹਨ ਕਾਹਲੋਂ ਦੇ ਨਾਵਲਾਂ ਦਾ ਸਭਿਆਚਾਰਕ ਅਧਿਐਨ

ਕੁਮਾਰੀ ਕੌਰ

ਮਨੁੱਖ ਦੁਆਰਾ ਸਿਰਜਿਤ ਸਭਿਆਚਾਰ ਦੀ ਪ੍ਰਕਿਰਿਆ ਮਨੁੱਖੀ ਰਿਸ਼ਤਿਆਂ ਦੇ ਜਟਿਲ ਅੰਤਰ ਸੰਬੰਧਾਂ ਦੇ ਚਰਚੇ ਅਤੇ ਤਨਾਉ ਨੂੰ ਸਮਝਣ ਦਾ ਯਤਨ ਹੈ। ਸਾਹਿਤਕ ਕਿਰਤਾਂ ਦੀ ਹੋਂਦ ਵਿਧੀ ਦੀ ਸਭਿਆਚਾਰਕ ਸਿਰਜਣਾ ਹੋਣ ਕਰਕੇ ਸਾਹਿਤ ਅਤੇ ਪ੍ਰਕਿਰਤੀ ਦੇ ਪਰਸਪਰ ਸੰਬੰਧਾਂ ਤੇ ਵਿਰੋਧਾਂ ਨੂੰ ਰੂਪ ਦੀ ਪੱਧਰ 'ਤੇ ਸਿਰਜਣ ਪ੍ਰਕਿਰਿਆ ਵਿੱਚ ਪਿਛੇ ਸਮਝਣ ਦਾ ਯਤਨ ਹੈ। ਮੋਹਨ ਕਾਹਲੋਂ ਦੇ ਨਾਵਲਾਂ 'ਬੇੜੀ ਤੇ ਬਰੋੜਾ', 'ਫਾਰਾਦਾਗੋ', 'ਪਰਦੇਸੀ ਰੁੱਖ', 'ਭੋਲੀ ਨਲੀ ਦਾ ਗੀਤ' 'ਮੋਛਲੀ ਇੱਕ ਦਰਿਆ ਦੀ', 'ਕਾਲੀ ਮਿੱਟੀ', 'ਵਹਿ ਗਏ ਪਾਣੀ', ਵਿੱਚ ਮਾਝੇ ਇਲਾਕੇ ਦੇ ਪੇਂਡੂ ਸਭਿਆਚਾਰ ਦੀ ਪੇਸ਼ਕਾਰੀ ਹੋਈ ਮਿਲਦੀ ਹੈ। ਕਿਸੇ ਵੀ ਕੌਮ ਦੀ ਸਮੁੱਚੀ ਜਾਂਚ ਪੜਤਾਲ ਲਈ ਉਸਦੇ ਸਭਿਆਚਾਰਕ ਸਮਾਜਿਕ ਹਾਲਤ, ਪਰਿਥਾ ਜਾਂਦਾ ਹੈ। ਸਭਿਆਚਾਰ ਅਤੇ ਸਮਾਜਿਕ ਅਵਸਥਾ ਕਾਫੀ ਹੱਦ ਤੱਕ ਇਸਤਰੀ ਤੇ ਪੁਰਸ਼ੀਕਤਾ ਨੂੰ ਵੀ 'ਸਭਿਆਚਾਰ ਦੀ ਰੂਹ ਦੀ ਪਛਾਣ ਉਸ ਕੌਮ ਦੀ ਇਸਤਰੀ ਦੀ ਹਾਲਤ, ਉਸਨੂੰ ਦਿੱਤੀਆਂ ਗਈਆਂ ਚੁੰਝਾਂ ਅਤੇ ਉਹ ਉਹ ਨਾਦੀਆਂ ਬੰਦਬਾਂ ਦੇ ਇਤਿਹਾਸ ਤੋਂ ਕੀਤੀ ਜਾ ਸਕਦੀ ਹੈ। ਆਰਥਿਕਤਾ ਆਪਣੇ ਆਪ ਵਿੱਚ ਇੱਕ ਸਭਿਆਚਾਰਕ ਸੰਕਲਪ ਹੈ, ਇਸ ਕਾਰਨ ਕਈ ਸਮਾਜਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ਆਰਥਿਕਤਾ ਦੇ ਅੰਤਰਗਤ ਹੀ ਕਿਰਾਜ ਵਰਤੀਆਂ ਦਾ ਪਰਬਜੀਤ ਕੌਰ ਅਨੁਸਾਰ,

“ਮਨੁੱਖੀ ਸਮਾਜ ਦੇ ਵਿਕਾਸ ਦੀ ਗਤੀ ਦਾ ਮਹੱਤਵਪੂਰਨ ਆਧਾਰ ਆਰਥਿਕਤਾ ਹੀ ਹੈ। ਸੁਣੀ ਸਮਾਜ ਵਿੱਚ ਆਰਥਿਕਤਾ ਹੀ ਵਿਅਕਤੀ ਵਿਸ਼ੇਸ਼ ਦਾ ਰੁਤਬਾ ਨਿਰਧਾਰਤ ਕਰਦੀ ਹੈ।”

ਮੋਹਨ ਕਾਹਲੋਂ ਨੇ ਨਾਵਲਾਂ ਵਿੱਚ ਪੇਂਡੂ ਸਭਿਆਚਾਰ ਨੂੰ ਮਾਝੇ ਦੇ ਇਲਾਕੇ ਦੀ ਵੱਖਰੀ ਪਛਾਣ ਲਈ ਉਪਯੋਗਿਤ ਹੈ। ਇਨ੍ਹਾਂ ਨਾਵਲਾਂ ਰਾਹੀਂ ਮਾਝੇ ਦੀ ਆਰਥਿਕ ਅਸੰਤੁਸ਼ਟੀ, ਨਰਿਆਂ ਦੇ ਪ੍ਰਤੀਕਰਮਾਂ ਵਜੋਂ ਲੜਾਈ ਵਰਗੇ ਭਰਿਥਿਆਂ ਦਾ ਛੋਢ, ਲੋਕਾਂ ਦੇ ਮਾਨਸਿਕ ਤਨਾਉ ਰਾਹੀਂ ਪੈਦਾ ਹੋਈਆਂ ਅਤੰਚਣਾਂ ਆਦਿ ਸਮੱਸਿਆਵਾਂ ਦੀ ਝਲਕ ਮਿਲਦੀ ਹੈ। ਇਨ੍ਹਾਂ ਨਾਵਲਾਂ ਵਿੱਚ ਪੇਂਡੂ ਕਿਸਾਨਾਂ ਦੇ ਆਰਥਿਕ ਤੌਰ 'ਤੇ ਵਖਰੇਵੇਂ ਨੂੰ ਪੇਂਡੂ ਕੀਤਾ ਹੈ। ਕਈ ਕਿਸਾਨ ਉਹ ਹਨ, ਜੋ ਆਪ ਖੇਤੀ ਕਰਦੇ ਹਨ ਤੇ ਸੀਰੀਆ (ਨੌਕਰਾਂ) ਤੋਂ ਵਾਹੀ ਕਰਵਾਉਂਦੇ ਹਨ। 'ਪਰਦੇਸੀ ਰੁੱਖ' ਨਾਵਲ ਵਿੱਚ ਰਾਮਿਲ ਕਿਸਾਨ ਦੇ ਭਰਾਵਾਂ ਵਰਗੇ ਪਾਤਰ ਹਨ ਜੋ ਖੇਤੀ ਦਾ ਵਧੀਆ ਹਿੱਸਾ ਆਪ ਰੱਖ ਲੈਂਦੇ ਹਨ ਅਤੇ ਮਾਝਾ ਹਿੱਸਾ ਕਿਸਾਨ ਵਰਗੇ ਪਾਤਰਾਂ ਨੂੰ ਦੇ ਦਿੰਦੇ ਹਨ ਤੇ ਹਿੱਸਾ ਨਾ ਪੈਣ ਦੇ ਡਰੋਂ ਕੋਈ ਸ਼ਰੀਕ ਨਾ ਜਨਮ ਲੈ ਸਕੇ, ਕਿਸਾਨ ਨੂੰ ਅਣਵਿਯੋਗਿਤਾ ਰਹਿਣ ਦਿੰਦੇ ਹਨ। ਬਿਸ਼ਨੇ ਦੀ ਭੈਣ ਇਸ ਸਭ ਦਾ ਵਿਰੋਧ ਕਰਕੇ ਆਪਣੇ ਭਰਾ ਦਾ ਵਿਆਹ ਪਾਕਿਸਤਾਨ ਤੋਂ ਆਈ ਕੁੜੀ ਨਾਲ ਕਰ ਦਿੰਦੀ ਹੈ ਤੇ ਆਪ ਆਪਣੀ ਭਰਜਾਈ ਦੀ ਦੇਖ-ਭਾਲ ਕਰਦੀ ਹੈ। ਦੂਜੀ ਕਿਸਮ ਦੇ ਉਹ ਹਨ ਜੋ ਆਪਣੀ ਜ਼ਮੀਨ ਨਾ ਹੋਣ ਕਰਕੇ ਠੇਕੇ ਤੇ ਜ਼ਮੀਨ ਲੈ ਕੇ ਵਾਹੀ ਕਰਦੇ ਹਨ ਜਾਂ ਹੋਰ ਮਜ਼ਦੂਰੀ ਕਰਕੇ ਆਪਣੀਆਂ ਆਰਥਿਕ ਲੋੜਾਂ ਦੀ ਪੂਰਤੀ ਕਰਦੇ ਹਨ। ਪਰਬਜੀਤ ਕੌਰ ਦੇ ਸ਼ਬਦਾਂ ਅਨੁਸਾਰ,

“ਸਾਡੇ ਸਭਿਆਚਾਰ ਵਿੱਚ ਆਰਥਿਕ ਮੰਦਹਾਲੀ ਦਾ ਅਸਲੀ ਕਾਰਨ ਤਾਂ ਨਿੱਜੀ ਜਾਇਦਾਦ ਦੀ ਅਣਹੋਂਦ ਹੈ, ਜੋ ਸਾਡੇ ਸਮਾਜ ਵਿੱਚ ਆਰਥਿਕ ਨਾ-ਬਰਾਬਰੀ ਦੀ ਵਿਵਸਥਾ ਬਾਰਨ ਹੈ। ਆਰਥਿਕ ਮੰਦਹਾਲੀ ਹੋਣ ਕਰਕੇ ਅੰਤਰ ਦਾ ਸ਼ਿਸਟ ਹੁੰਦਾ ਹੈ ਜੋ ਉਸਦੇ ਮਾਨਸਿਕ ਵਿਕਾਸ ਵਿੱਚ ਗਤੀਰੇਧ ਦਾ ਕਾਰਨ ਬਣਦਾ ਹੈ।”

\* ਅਸਿਸਟੈਂਟ ਪ੍ਰੋਫੈਸਰ, ਪੰਜਾਬੀ ਵਿਭਾਗ, ਸਰਕਾਰੀ ਕਾਲਜ ਟਾਂਡਾ-ਉਤਮੁੜ।



ISSN 2348-3598

**VISION**  
**An International**  
**Journal**  
**of**  
**Humanities and Management**

Vol. VI

Issue 6

April 2019

Annual



## **Dasmesh Girls College**

Chak Alla Baksh Mukerian

(Affiliated to Panjab University Chandigarh)

Accredited 'A' Grade by NAAC

Website: [www.dgemukerian.org](http://www.dgemukerian.org)

E-mail: [dge\\_chakallabaksh17@rediffmail.com](mailto:dge_chakallabaksh17@rediffmail.com)

[dge\\_johm14@rediffmail.com](mailto:dge_johm14@rediffmail.com)

Ph:01883-247895, M:94651-37136, Fax:01883-247995

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## ਪੰਜਾਬੀ ਲੋਕ ਗੀਤ : ਇੱਕ ਅਧਿਐਨ

ਵਰਿੰਦਰ ਕੁਮਾਰ\*

ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਵਿੱਚ ਸਾਹਿਤ ਅਤੇ ਸੰਗੀਤ ਆਪਣੀ ਵਿਸ਼ੇਸ਼ ਮਹੱਤਤਾ ਰੱਖਦੇ ਹਨ, ਉਸੇ ਤਰ੍ਹਾਂ ਕਾਵਿ ਰੂਪਾਂ ਦੀ ਵੀ ਆਪਣੀ ਬਣਤਰ ਅਤੇ ਮਹੱਤਤਾ ਹੈ। ਲੋਕ-ਕਾਵਿ ਰੂਪਾਂ ਦੀ ਗੱਲ ਕਰਨ ਤੋਂ ਪਹਿਲਾਂ ਲੋਕ ਕਾਵਿ ਬਾਰੇ ਜਾਨਣਾ ਜ਼ਰੂਰੀ ਬਣਦਾ ਹੈ। ਡਾ. ਜਸਵੀਰ ਸਿੰਘ ਲਿਖਦੇ ਹਨ,

“ਲੋਕ ਕਾਵਿ ਰੂਪ ਦੀ ਸਿਰਜਣਾ ਹੋਰ ਕਲਾ ਰੂਪਾਂ ਨਾਲੋਂ ਵਧੇਰੇ ਪ੍ਰਤੱਖ ਸਪੱਸ਼ਟ ਅਤੇ ਨਿਸ਼ਚਿਤ ਪ੍ਰਕਾਰ 'ਚ ਮੁੱਖ ਹੁੰਦੀ ਹੈ।”

ਸੁਹਾਗ, ਘੋੜੀਆਂ, ਸਿੱਠਣੀਆਂ, ਅਲਾਹੁਣੀਆਂ ਆਦਿ ਦੀ ਸਭਿਆਚਾਰਕ ਪ੍ਰਮੁੱਖਤਾ ਇਹਨਾਂ ਦੀ ਨਿਸ਼ਚਿਤ ਪੇਸ਼ਕਾਰੀ ਦੇ ਪ੍ਰਸੰਗ ਵਿੱਚੋਂ ਸਹਿਜੇ ਹੀ ਪਛਾਣੀ ਜਾ ਸਕਦੀ ਹੈ।

ਇਨ੍ਹਾਂ ਦਾ ਇਤਿਹਾਸ ਮਨੁੱਖੀ ਇਤਿਹਾਸ ਜਿੰਨਾ ਹੀ ਪੁਰਾਣਾ ਅਤੇ ਚਿਰੰਜੀਵੀ ਹੈ। ਇਸ ਵਿਚਲੀ ਸਾਦਗੀ ਅਤੇ ਅਲਬੇਲਾਪਨ ਪੀੜ੍ਹੀ ਵਿਰਾਸਤ ਦਾ ਮੁਹਾਦਰਾ ਨਿੱਖਰ ਕੇ ਸਾਹਮਣੇ ਲਿਆਉਂਦਾ ਹੈ। ਸੁਰ ਦੀ ਇਕਸਾਰਤਾ ਲੋਕ ਕਾਵਿ ਰੂਪ ਬਣਤਰ ਦਾ ਮੁੱਖ ਤੱਤ ਹੈ ਅਤੇ ਤਾਲ ਇਸਨੂੰ ਪੇਸ਼ਕਾਰੀ ਦੇ ਪ੍ਰਸੰਗ ਨਾਲ ਜੋੜਦਾ ਹੈ। ਪੰਜਾਬੀ ਲੋਕ ਕਾਵਿ ਰੂਪਾਂ ਵਿੱਚੋਂ ਜੁਗਨੀ, ਢੋਲਾ, ਮਾਹੀਆ, ਟੱਪਾ, ਕਿੱਕਲੀ, ਲੋਰੀ, ਸੁਹਾਗ, ਸਿੱਠਣੀਆਂ, ਘੋੜੀਆਂ, ਸਿਹਰਾ, ਜਾਗੋ, ਛੰਦ, ਬਿਰਹੜਾ, ਬਾਰਾਮਾਹ ਆਦਿ 'ਤੇ ਚਰਚਾ ਇਸ ਪ੍ਰਕਾਰ ਹੈ:-

**ਜੁਗਨੀ :**

ਜੁਗਨੀ ਗਾਇਆ ਜਾਣ ਵਾਲਾ ਅਜਿਹਾ ਕਾਵਿ ਰੂਪ ਹੈ ਜਿਸ ਨੂੰ ਲੋਕ ਗਾਇਕੀ ਦੀ ਵੰਨਗੀ ਅਧੀਨ ਰੱਖਿਆ ਜਾਂਦਾ ਹੈ। ਇਸ ਦੇ ਉਦਭਵ ਬਾਰੇ ਬਹੁਤ ਸਾਰੀਆਂ ਬਿਰਤਾਂਤਕ ਟਿੱਪਣੀਆਂ ਮਿਲਦੀਆਂ ਹਨ। ਜੁਗਨੀ ਲੋਕ ਗੀਤ ਦਾ ਉਦਗਮ ਲੋਕ ਨਾਇਕ ਵਜੋਂ ਹੋਇਆ। ਇਸ ਦੀ ਪੇਸ਼ਕਾਰੀ ਅਤੇ ਨਿਭਾਅ ਸਮੇਂ ਸਮੇਂ ਅਲੱਗ-ਅਲੱਗ ਲੋਕ ਗਾਇਕਾਂ ਦੁਆਰਾ ਕੀਤਾ ਜਾਂਦਾ ਰਿਹਾ ਹੈ।

ਮੇਰੀ ਜੁਗਨੀ ਦੇ ਧਾਗੇ ਬੰਗੇ

ਓ ਜੁਗਨੀ ਉਹਦੇ ਮੂੰਹ ਤੋਂ ਸੱਜੇ


ਜਿਹਨੂੰ ਸੱਟ ਇਸ਼ਕ ਦੀ ਲੱਗੇ

ਓ ਦਿਲ ਮੇਰਿਆ ਓ ਜੁਗਨੀ ਕਹਿੰਦੀ ਏ

ਜਿਹੜੀ ਨਾਂ ਅੱਲਾਹ ਦਾ ਲੋਂਦੀ ਆ।

ਇਹ ਕਾਵਿ ਰੂਪ ਸਧਾਰਨ ਰੂਪ ਵਿੱਚ ਗਾਏ ਜਾਣ ਤੋਂ ਇਲਾਵਾ ਪੀਰਾਂ ਫਕੀਰਾਂ ਦੀ ਦਰਗਾਹ ਤੇ ਵੀ ਗਾਇਆ ਜਾਂਦਾ ਹੈ, ਇਸਦਾ ਨਿਭਾਅ ਉੱਚੀ ਹੇਕ ਵਿੱਚ ਗਾ ਕੇ ਕੀਤਾ ਜਾਂਦਾ ਹੈ।

\* ਅਸਿਸਟੈਂਟ ਪ੍ਰੋਫੈਸਰ, ਸਰਕਾਰੀ ਕਾਲਜ ਟਾਂਡਾ-ਉਰਮਾਰ, ਹੁਸ਼ਿਆਰਪੁਰ।



# ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਬਦਲਦੇ ਸਰੋਕਾਰ

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## ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਵਿੱਚ ਨਿਭਾਏ ਜਾਂਦੇ ਕਾਵਿ ਰੂਪਾਂ ਦੀ ਸੰਗੀਤਿਕ ਭਾਸ਼ਾ

ਪ੍ਰੋ. ਵਰਿੰਦਰ ਕੁਮਾਰ\*

ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਵਿੱਚ ਸਾਹਿਤ ਅਤੇ ਸੰਗੀਤ ਆਪਣੀ ਵਿਸ਼ੇਸ਼ ਮਹੱਤਤਾ ਰੱਖਦੇ ਹਨ, ਉਸੇ ਤਰ੍ਹਾਂ ਕਾਵਿ ਰੂਪਾਂ ਦੀ ਵੀ ਆਪਣੀ ਬਣਤਰ ਅਤੇ ਮਹੱਤਤਾ ਹੈ। ਲੋਕ-ਕਾਵਿ ਰੂਪਾਂ ਦੀ ਗੱਲ ਕਰਨ ਤੋਂ ਪਹਿਲਾਂ ਲੋਕ ਕਾਵਿ ਬਾਰੇ ਜਾਨਣਾ ਜ਼ਰੂਰੀ ਬਣਦਾ ਹੈ। ਡਾ. ਜਸਵੀਰ ਸਿੰਘ ਲਿਖਦੇ ਹਨ,

“ਲੋਕ ਕਾਵਿ ਰੂਪ ਦੀ ਸਿਰਜਣਾ ਹੋਰ ਕਲਾ ਰੂਪਾਂ ਨਾਲੋਂ ਵਧੇਰੇ ਪ੍ਰਤੱਖ ਸਪੱਸ਼ਟ ਅਤੇ ਨਿਸ਼ਚਿਤ ਪ੍ਰਕਾਰ ‘ਚ ਮੁੱਖ ਹੁੰਦੀ ਹੈ।”

ਸੁਹਾਗ, ਘੋੜੀਆਂ, ਸਿੱਠਣੀਆਂ, ਅਲਾਹੁਣੀਆਂ ਆਦਿ ਦੀ ਸਭਿਆਚਾਰਕ ਪ੍ਰਮੁੱਖਤਾ ਇਹਨਾਂ ਦੀ ਨਿਸ਼ਚਿਤ ਪੇਸ਼ਕਾਰੀ ਦੇ ਪ੍ਰਸੰਗ ਵਿੱਚੋਂ ਸਹਿਜੇ ਹੀ ਪਛਾਣੀ ਜਾ ਸਕਦੀ ਹੈ।

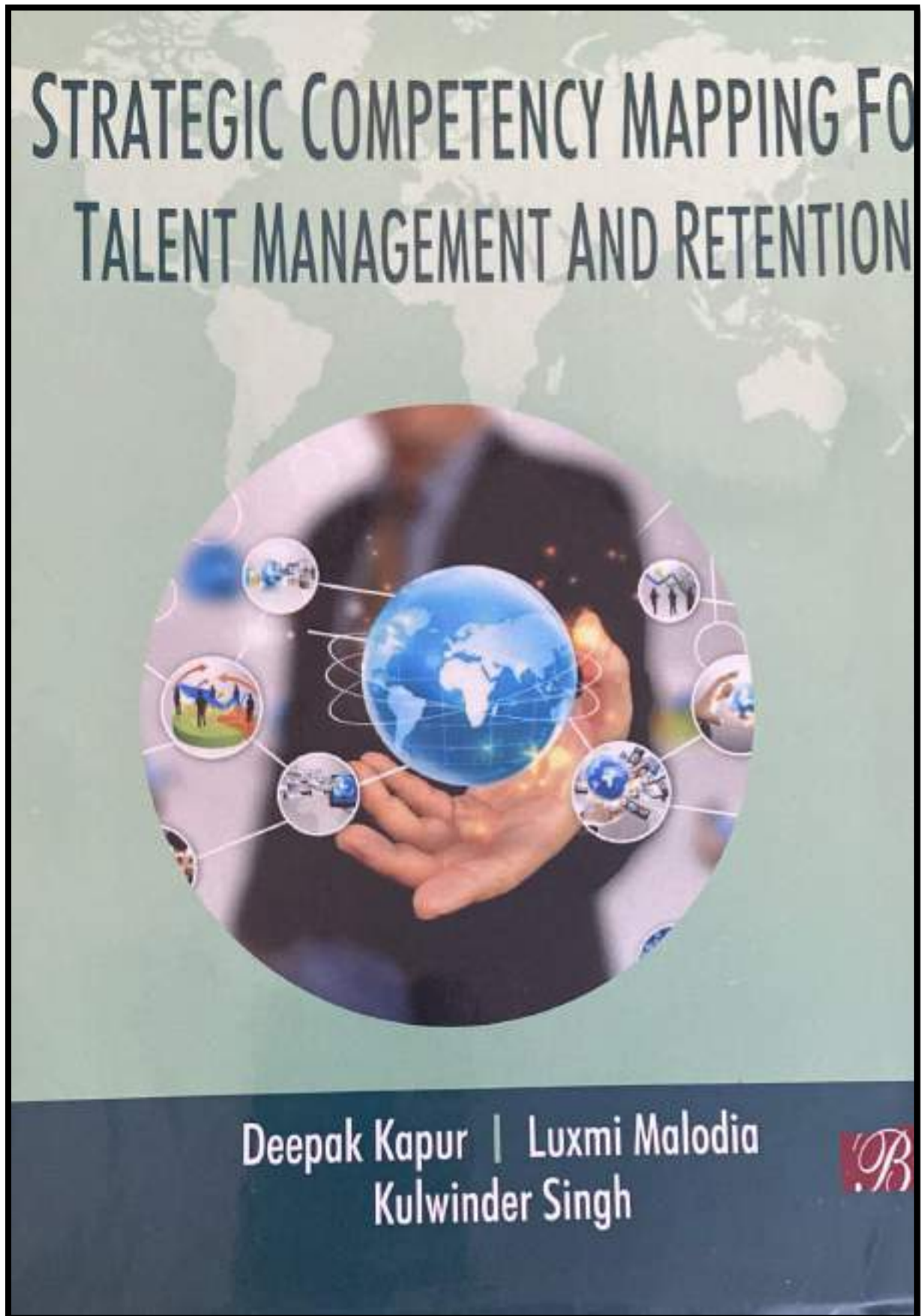
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# STRATEGIC COMPETENCY MAPPING FOR TALENT MANAGEMENT AND RETENTION

Foreword

## *Editors*

Prof. Deepak Kapur  
Prof. Luxmi Malodia  
Dr. Kulwinder Singh

University Business School  
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**Bharti Publications**

New Delhi • Mumbai (India)

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First Published, 2018

ISBN : 978-93-86608-21-5

*Printed in India:*

**BHARTI PUBLICATIONS**

4819/24, 3rd Floor, Ansari Road

Darya Ganj, New Delhi-110002

Mobile : +91-989-989-7381

E-mail : [bhartipublications@gmail.com](mailto:bhartipublications@gmail.com)

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*Associate Office:*

Mumbai : 61/478, Motilal Nagar, No-3, M G Road Goregaon,

West Mumbai-400900

Published by Onkar Bharti for Bharti Publications.

Layout by Neeru Graphics, Printed by Milan Enterprises, Delhi.

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## A Study of Relationship between Employee Engagement and Motivational Levels in General Insurance

Shashi Bala\* & R.K.Sharma\*\*

### ABSTRACT

Success of an organization depends on abilities of employees accompanied by desire to accomplish given tasks. Employee engagement refers to relationship between an organization and its employees. Employee engagement has become top priority of today's management. An engaged employee is one who is fully absorbed by and enthusiastic about their work and so takes positive action to further the organisation's reputation and interests. Basic principle is that the performance of an individual depends on how deeply he is involved in organisation's work. The objective of the paper is to study employee engagement and its relationship with motivational levels of employees in New India Assurance Company Limited. An effort has been made to provide suitable suggestions for keeping the employees engaged and motivated in the company. Both primary and secondary data has been used for the purpose of the study. Primary data was collected from the employees of the Company from the Branch Offices, Divisional Offices and the Regional Offices. The sample size was 235 employees. The sample of the employees was drawn on the basis of stratified random sampling technique and the strata being the level of employees i.e. Class I, II and III. The primary data was collected by administering an interview Schedule which included different questions relating to the different aspects of motivation. A sample of 25 per cent of the employees working at each level was taken. The primary data so collected was analysed using cross tabulation with the help of the statistical package SPSS (Statistical Package for Social Sciences) using statistical technique like Chi-square test and Karl Pearson's coefficient of correlation. Results indicated that employees accomplished their tasks in time and they had high confidence level indicating their high motivational levels.

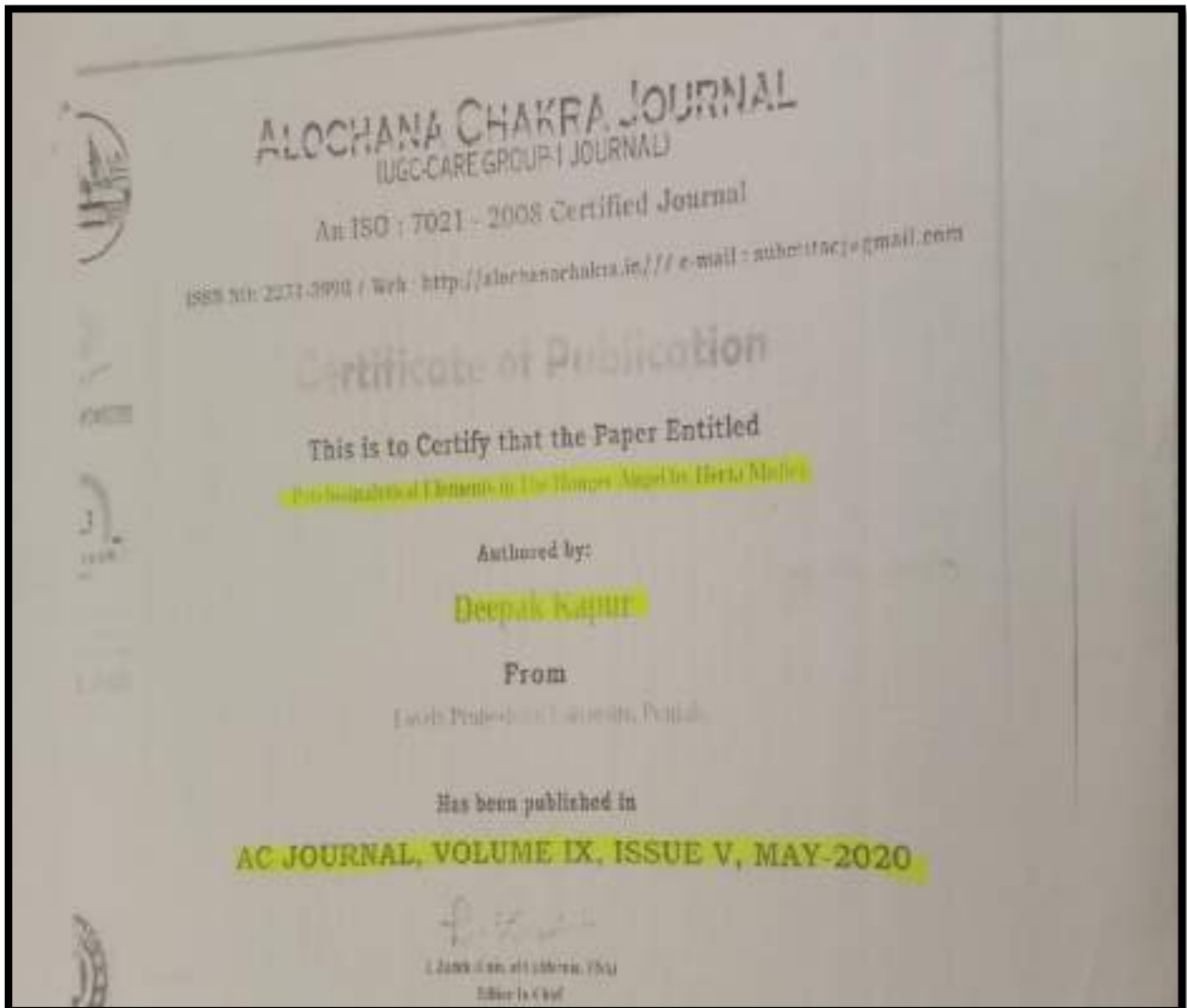
Keywords:- NIACL – Employee Engagement- Employee Motivation

### EMPLOYEE ENGAGEMENT

Employee engagement has now become an issue of priority for modern management, as it is only the fully engaged employee who can contribute maximum to the organisation. Employee engagement is a mental stage where employee puts in his maximum for the uplift of the

\* Associate Professor, Department of Commerce, G.K.S.M Government College, Tanda Urmur, Punjab

\*\* Professor, University School of Open Learning, Panjab University, Chandigarh.





### Psychoanalytical Elements in *The Hunger Angel* by Herta Muller

The plot begins with the protagonist Leopold Auberg packing things for a journey. It was not a journey for pleasure. Rather, he was being shipped off to some place in Russia in the dead of winter. This journey is in fact a psychic journey of the protagonist. His entire psyche lays bare before us as he embarks on this journey. The time was January 1945 and the Second World War was still on. Everyone was keen on giving something to him that could be of some use. His father, grandfather, uncle Edwin, neighbor Herr Carp and aunt Fini gave him their things. The toilet kit and the burgundy silk scarf only belonged to him. Auberg was 17 years of age and was secretly a little bit happy also that his name had figured in the Russian's list.

He wanted to go away from his small town where he was not able to lead a private life. The protagonist already has some elements of neurosis in him. Freud differentiates between neurosis and psychosis and says, "In neurosis the ego suppresses part of the id out of allegiance to reality, whereas in psychosis it lets itself be carried away by the id and detached from a part of reality" (Freud 202). This neurosis grows all the more as Leo faces the inhuman hardships of the forced labour camp. His deep desires are being repressed by his ego. Therefore he wants to flee the place. He said, "I wanted to get out of our thimble of a town, where every stone had eyes....I simply wanted to go to a place that didn't know who I was" (Page 2).

Recently, homosexual tendencies had started erupting in him. He said, "Something had just happened to me. Something forbidden. Something strange, filthy, shameless and beautiful" (Page 2). He had his first sexual encounter in the Adler Park. He vowed to never come in the park again because he didn't want to hurt his mother, who would have strongly objected to this kind of relationship. But, he couldn't stop himself and frequently went to the park for such kind of sexual encounters.

During autumn, the trees shed their leaves and these people moved to the Neptune Baths. Here, he met a Romanian twice his age every week. They used secret names for each other and staggered their arrivals so that they were not noted by anybody. This activity was illegal and could have landed him into prison. Some persons were caught, interrogated brutally and then sent to prison for 5 years. After that, they were sent to a penal colony from where almost nobody came back. Leo wrote, "I know that almost nobody came back from there. The ones who did were walking corpses-old before their time and broken, of no use for any love in the world" (Page 3).

His father was an art teacher. Such was the guilty conscience of Leo, that whenever his father uttered the word water colour, he felt as if his father had kicked him. It's because the place Neptune Baths was always inside his head. He says, "I was my own thief, the words came out of nowhere and caught me" (Page 4). It was his defence mechanism that he always became

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## Women in Arthur Miller's *All my Sons* and *Death of a Salesman*

Ms. Sonia Chahal

Department of English (Asst. Prof.)

G.K.S.M. Govt. College, Tanda Urmur, Punjab, India

Email: sulkhshab@gmail.com

Mobile: 9855578798

**Abstract**-The world of Arthur Miller, one of the most significant American playwrights, is not known for its pictures of impressive women. The centre of action in most of Miller's plays is family. However, mother is not necessarily the pivot in the families of Miller. Kate Keller and Linda Loman, the two mothers in Arthur Miller's most popular plays *All my Sons* (1947) and *Death of a Salesman* (1950) are in no ways memorable characters. Rather, the father-son relationship is at the heart of both the plays. In spite of their love and devotion for their families, both Kate and Linda prove to be ineffectual characters. Miller's projection of their characters stands counter to the American social trend of giving more and more freedom and equality to women. However, we must remember that Arthur Miller lived in the America of post-World War II era. In that period of time, the role of women was limited to the traditional one of a housekeeper alone. This reality of American society explains the female characters of his play. Even Sue Bayliss and Lydia Luby in *All my Sons*, who belong to the younger generation, are essentially homemakers. Ann Deever is the only female character in both the plays who is a woman of substance and stands apart from the rest of them. Barring her, men occupy the primary and all-important place in Miller's world.

**Keywords:** American society, passive, traditional, housekeeping, submissive.

### Full Paper

Arthur Miller, one of the most significant American playwrights, is known for taking up in his plays serious issues confronting the American society. His plays, invariably reflect his moral, social and political concerns. The central theme of one of his earlier plays *All my Sons* (1947) is a businessman's evasion of responsibility for a decision in wartime which led to the loss of twenty-one lives. Willy Loman of *Death of a Salesman* (1950) is a victim of the American dream of success. However, the world of Miller is not known for its pictures of impressive women. Both the plays have women characters who appear to be neither extraordinary nor memorable. They do not influence the action in any significant way and one might go as far as to say that they can even be dispensed with, without doing any serious damage to the play. It is surprising that Miller, who is otherwise known for his complex characters, chose to create such insipid, flat and wishy-washy female characters.

Though Miller's plays are never devoid of a social context, the centre of action in most of the plays is the family. However, mother is not necessarily the pivot in the families of Miller. Rather, the father is the unquestioned head of the unit. He wields absolute authority and power over his family. Joe Keller and Willy Loman are the typical patriarchs in their respective families. During the time of war, Keller had a contract for the manufacture of airplane cylinder heads, a batch of which developed manufacturing defect. Instead of trashing







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Glimpses of India of Pre-Independence times in Untouchable

Published in *Studies in Indian Place Names (SIPN)* with ISSN 2394-3114

Vol. 40 Issue 56 Month March Year 2020

Impact Factor 6.30

The journal is indexed, peer reviewed and listed in UGC Care.

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Warangal. Ph.D : Indian Institute of Technology(IIT),Delhi  
M.B.A. Alagappa University

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Associate Professor, Dept. of ECE, AITS, Tirupati, India

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## FERTIGATION IN VEGETABLE CROPS

<sup>1</sup>RAJNEET KAUR, <sup>2</sup>JASMINE

<sup>1,2</sup>Assistant Professor, Department of Agriculture, G.K.S.M. Government College, TandaUrmur Dist. Hoshiarpur (Pb)  
E-mail: <sup>1</sup>rajneetk390@gmail.com

**Abstract** - Advances in micro-irrigation techniques like drip irrigation have facilitated more widespread adoption of fertigation, especially for vegetable crops. It is generally believed that fertigation improves nutrient uptake efficiency and preferable to dry fertilizer broadcast application because it increases yield, enhances crop quality and minimizes loss of nutrients i.e. leaching of NO<sub>3</sub><sup>-</sup> below the root zone. In fertigation the water soluble nutrients move with the wetting front and thus precise management of irrigation quantity along with the rate and timing of nutrient application are of critical importance to obtain desired results in terms of productivity and nutrient use efficiency. A review is made of the current literature on the use of fertigation and covering various aspects of vegetable production including its dosification and the uptake of nutrients.

**Keywords** - Fertigation, Uptake of Nutrients and Vegetable Crops

### I. INTRODUCTION

Agriculture is the backbone of Indian economy and water is the heart of agriculture. India is the brick of a Golden Revolution in Horticulture with a total annual production of 149 Million tones. Vegetables are important constituents of Indian agriculture and nutritional security due to their short duration, high yield, nutritional richness, economic viability and ability to generate on-farm and off-farm employment. Our country is blessed with diverse agro-climates with distinct seasons, making it possible to grow wide array of vegetables. At present, India is a second largest producer of vegetable crops in the world, contributing 9541 thousand hectare area with 168300 thousand MT production and 17.64 t/ha productivity.

Vegetables are grown traditionally in rows, along the side of rows of crops, 'Dol' is formed and in between two such 'Dols', a furrow is formed in which water flows for irrigation. Large areas can be irrigated at a time and it is not necessary to give water a second time. Plants gets suitable quantity of water by this method but due to imbalance in flow of water, wastage of water is caused in it. Due to filling of excess water, there is risk of underground salts coming up to the surface layer. Moreover, it is not suitable in all types of crops and making 'Dol' for drains requires more labour information. Micro irrigation is one of the latest innovations for applying water and it represents a definite advancement in irrigation technology.

Frequent application of small quantity of water directly, above or below the soil surface; usually as discrete drops, continuous drops, tiny streams, or as miniature sprays through mechanical devices called emitters or applicators, located at selected points along water delivery line.

Now a days, crops are cultivated throughout the year under drip irrigation system. Even though drip system is adopted, some farmers are using fertilizer doses

indiscriminately through soil application for crop production. Some of them are applying excessive dose of water soluble fertilizers along with drip irrigation as recommended by local private companies

As a consequence, cost of cultivation has been increasing indirectly with heavy doses of fertilizers since farmers are investing more either for daily application of water soluble fertilizers through drip irrigation or for soil application of complex fertilizers. The adoption of trickle irrigation methods with only partial soil wetting brought about the concomitant transition in restricting crop root system distribution mainly to the wetted zone. These limited root systems considerably modify classical fertilization management. The shift from a broadcast fertilizer application to banded fertilization or to fertilizer added to the irrigation water was developed in order to meet the nutrient needs of the trickle irrigated crop.

Chronologically, fertigation was an outcome of the localized irrigation. Fertigation enables the grower to select and use high quality fertilizer most suitable for his soil, irrigation water source, crop and climatic conditions to produce high quality crops and, at the same time, prevent environmental pollution. Greenhouse crops are fertilized exclusively through irrigation system.

### II. FERTIGATION

Fertigation is a word derived from fertilizers and irrigation. Fertigation –a modern agro- technique is the application of fertilizers, soil amendments and other water soluble products required by the plant during its growth stages with irrigation water to enhance crop production. In combination with drip irrigation, this technique forms an efficient method for precisely applying nutrients close to the crop root zone through a dripper network with the help of emitters near consumptive use of plants during

## RECENT TRENDS IN AGRICULTURE: VERTICAL FARMING

<sup>1</sup>JASMINE, <sup>2</sup>RAJNEET KAUR

<sup>1,2</sup>Department of Agriculture, GKSM Government College, Tanda Urmar, Panjab University, Chandigarh, Punjab, India  
E-mail: jasmine.namtu@gmail.com

**Abstract** - Vertical farming is a cultivating vegetable vertically by new agricultural methods, which combines the design of building and farms all together in a high-rise building inside the cities. This technology needs to be manifest both in the agricultural technique and architectural technology together, however, little has been published on the technology of Vertical Farming. Urban planners and agricultural leaders have argued that cities will need to produce food internally to respond to demand by increasing population and to avoid paralyzing congestion, harmful pollution, and unaffordable food prices. recent advances in greenhouse technologies such as hydroponics, aeroponics, and aquaponics have provided a promising future to the vertical farm concept. These high-tech systems represent a paradigm shift in farming and food production and offer suitable and efficient methods for city farming by minimizing maintenance and maximizing yield. It simultaneously helps to reduce poverty, adds to food safety, and increases contextual sustainability and human well-being.

**Keywords** - Aquaponics, Hydroponics and Vertical Farming

### I. INTRODUCTION

Vertical farming is not a new idea. Indigenous people in South America have long used vertically layered food growing techniques, and the rice terraces of East Asia follow a similar principle. One of the earliest drawings of a tall building that cultivates food for the purposes of consumption was published as early as Life Magazine 1909. This proposal can be seen in Rem Koolhaas's Delirious New York. Koolhaas

wrote that this 1909 theorem is "The Skyscraper as Utopian device for the production of unlimited numbers of virgin sites on a metropolitan location" (1994, 82). "American geologist Gilbert Ellis Bailey in 1915 coined the term "vertical farming" in his book, "Vertical Farming." By 2001 the first outline of a vertical farm was introduced and today scientists, architects, and investors worldwide are working together to make the concept of vertical farming a reality.

#### Types of Vertical Farm

Mixed Use Skyscraper

Despommier Skyscraper

It was proposed and built by architect Ken Yeang. He proposes that instead of hermetically sealed mass-produced agriculture that plant life should be cultivated within open air, mixed-use skyscrapers for climate control and consumption. This farming system is based upon personal or community use. Despommier proposed that plant life is mass

produced within hermetically sealed, artificial environments that have little to do with the outside world. In this sense, they could be built anywhere regardless of the context. Despommier's concept of "The Vertical Farm" emerged in 1999 at Columbia University.



Source: [www.skyscrapercity.com/showthread.php?t=1741285&page=2](http://www.skyscrapercity.com/showthread.php?t=1741285&page=2)

Proceedings of 86<sup>th</sup> Researchfora International Conference, Vancouver, Canada, 30<sup>th</sup> - 31<sup>st</sup> March, 2020

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Review Paper

## A critical review on toxicity of cobalt and its bioremediation strategies



Sonia Mahey<sup>1</sup> · Rakesh Kumar<sup>2</sup> · Manik Sharma<sup>3</sup> · Vinod Kumar<sup>4</sup> · Renu Bhardwaj<sup>5</sup>

Received: 3 April 2020 / Accepted: 9 June 2020  
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### Abstract

Accumulation of heavy metals especially cobalt (Co) in agricultural fields and water bodies due to natural as well as anthropogenic factors is major concern. Although it is an important constituent of vitamin B<sub>12</sub>, yet its higher exposure produces significant ramifications in crop plants. It affects biomass and concomitantly reduces crop yield that in turn causes substantial financial loss to farmers. To counter this heavy metal toxicity, the plants have devised mechanisms either to detoxify or accumulate the contaminants. Further, there are various bioremediation strategies that can be used to get rid of Co from the given medium. Phytostabilisation, phytoextraction, rhizofiltration are some of the techniques used worldwide to reduce cobalt in the fields. This review emphasis upon the uptake, transportation, accumulation of cobalt in plants and discusses the remedial strategies available presently to effectively remove it from mediums like soil and water bodies.

**Keywords** Cobalt · Toxicity · Phytoextraction · Phytostabilisation · Rhizofiltration

### 1 Introduction

Heavy metals (HMs) are the naturally occurring metal elements having atomic number > 20 with characteristically high atomic density (4 g/cm<sup>3</sup> or five times than that of H<sub>2</sub>O), and may be toxic at very low concentrations [1, 2]. Their accumulation in soil is regarded as one of the major culprits for degradation of pedosphere. In nature, HMs are present deeply hidden in the earth as a non-degradable constituent of the earth's crust [3]. But overexploitation of natural resources has given an easy way to these HMs to rise up to the surface of earth. These are present in soil either innately (volcanic activities, weathering of rocks) or added to it by various anthropogenic activities like metal smelting, overuse of fertilizers and industrial waste etc. [4]. Further, it has been found that anthropogenic mediated addition of HMs in atmosphere is almost three times higher as compared to the natural factors [5]. They are

discharged in soil and water bodies either in solution or solid forms. In water bodies, they get built up on the sea floor or get adsorbed on to the solid objects [6]. Likewise in soil, HMs keep on piling up because they do not get oxidized by microbes unlike organic contaminants, hence continue to persist in the soil for long duration of time [7]. They even obstruct the degradation of organic contaminants by inhibiting microbial activity [8]. From soil they slowly leach into underground water to contaminate the water table. The exposure of soil fauna to HMs disturbs their distribution and hence reduces fertility of soil [9]. HMs are known to reduce the growth of sulphate reducing bacteria by denaturing their proteins and inactivating enzymes [10]. Plants growing at such contaminated sites take up these HMs from affected soil-water, and keep on accumulating these HMs. This pile up of HMs in plants gets magnified along the linear network of food chains which may affect human health [11]. Owing to their

✉ Sonia Mahey, sonia.gndu11@gmail.com | <sup>1</sup>Department of Botany, Giani Kartar Singh Memorial College, Urmur, Tanda 144212, India. <sup>2</sup>Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar 143005, India. <sup>3</sup>Department of Botany, Doaba College, Jalandhar 144004, India. <sup>4</sup>Department of Agriculture, Khalsa College, Amritsar, Punjab 143005, India. <sup>5</sup>Department of Botany, Government Degree College, Ramban, Jammu 182144, India.



SN Applied Sciences

(2020) 2:1279

| <https://doi.org/10.1007/s42452-020-3020-9>

Published online: 24 June 2020

SN Applied Sciences  
A SPRINGER NATURE JOURNAL





Contents lists available at ScienceDirect

## Physiological and Molecular Plant Pathology

journal homepage: [www.elsevier.com/locate/pmp](http://www.elsevier.com/locate/pmp)

## Post-infectional changes associated with the progression of leaf spot disease in *Calotropis procera* Aiton

Kanika Kiran<sup>a</sup>, Sonia Mabey<sup>b</sup>, Ashutosh Sharma<sup>c</sup>, Vinod Kumar<sup>d</sup>, Anket Sharma<sup>e</sup>, Saroj Arora<sup>f</sup>, Renu Bharadwaj<sup>g</sup>, Rakesh Kumar<sup>h,i,\*</sup>

<sup>a</sup> Department of Botany, DAV University, Saranagar, Jalandhar, 144012, India

<sup>b</sup> Department of Botany, Gird Kirtor Singh Memorial Government College Dera, Yandi, Hoshiarpur, 144372, India

<sup>c</sup> Faculty of Agricultural Sciences, DAV University, Saranagar, Jalandhar, 144012, India

<sup>d</sup> Department of Botany, Government Degree College, Ransohi, Jammu, 182344, India

<sup>e</sup> State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Mengzhou, China

<sup>f</sup> Department of Botanical and Environmental Science, Guru Nanak Dev University, Amritsar, 143005, India

<sup>g</sup> Department of Botany, Datta College, Jalandhar, 144004, India

## ARTICLE INFO

**Keywords:**  
Pigments  
Antioxidative enzymes  
Organic acids  
GC-MS

## ABSTRACT

The present work was designed to study the post-infectional alterations associated with the disease progression during leaf spot disease caused by *Pestalotiopsis calotropidis* in *Calotropis procera*. It is an important medicinal plant of family Apocynaceae and subfamily Asclepiadoideae. In the present work, various parameters such as leaf area, number of leaf spots, biochemical parameters, i.e., total chlorophyll content, total protein content, and antioxidative enzyme activities, i.e., catalase (CAT), ascorbate peroxidase (APX) and guaiacol peroxidase (GPX) were studied to assess the post-infectional changes associated with the disease progression. Various organic acids, i.e., malic acid (MA), succinic acid (SA), citric acid (CA) and fumaric acid (FA) were also analyzed by using GC-MS. It was found that total chlorophyll and total protein contents decreased in disease severity level 1 (DS1), DS2, DS3, DS4 and DS5 significantly as compared to the healthy plant (DS0). The results of antioxidant enzymes indicate that the activities of CAT, APX and GPX were increased in disease progressed leaves as compared to the healthy plant leaves. Similarly trend was found for CA. The present study suggested a complicated basis of post-infectional changes, the facts obtained is helpful for better interpretation of host pathogen interaction.

## 1. Introduction

*Calotropis procera* (Aiton) W.T. Aiton, is a medicinal plant belonging to family Apocynaceae and subfamily Asclepiadoideae [1]. *C. procera* is known to be attacked by various fungal pathogens, insects and aphids [2,3]. These infections modulate the concentration of bioactive phytochemicals of plant which results in variation in their medicinal properties. This poses a big problem for health care sector which relies on preparation of medicines from dried plant materials. Infected material exert lesser or unprecedented medicinal implications upon consumption. The alteration in phytochemicals of plants may be due to various reasons. One of the earliest plant defense responses against fungal infection is upsurge in production of reactive oxygen species (ROS) during oxidative burst. ROS generation plays an important function in pathogenesis and defense related activities in both host and pathogen

[4–6]. ROS regulation is important for development, differentiation and virulence of phytopathogenic fungi [7,8]. Both intracellular ROS regulation in fungal cells and their tolerance by host plant is regulated by trans-membrane protein Tsp 1 that is exploited by the *Ahmaria brassicicola* to cause dark leaf spot in *Brassica* species [9]. Fungal infections reduce the photosynthetic rate primarily by decreasing the functional leaf area and thereby shrinking the photosynthetic efficiency of the remaining leaf [10].

Interestingly, *C. procera* is not affected by any rust or smut disease [3]. *Pestalotiopsis calotropidis* is the only host specific fungal pathogen of *C. procera*. *P. calotropidis* belongs to phylum Ascomycota and subphylum Pezizomycotina [11]. It has been reported in Pakistan and Australia for causing leaf spot disease in *C. gignasia* and *C. procera* respectively [11, 12]. During early stages of infection, it induces appearance of dark lesions on both adaxial and abaxial surface of leaves with a surrounding

\* Corresponding author. Department of Botany, DAV University, Saranagar, Jalandhar, 144012, India.  
E-mail address: [rakeshkd@gmail.com](mailto:rakeshkd@gmail.com) (R. Kumar).

<https://doi.org/10.1016/j.pmp.2020.101519>

Received 31 January 2020; Received in revised form 5 June 2020; Accepted 2 July 2020

Available online 1 August 2020

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## Appraisal of tissue compartmentalized metal(loid) uptake by rice

Vinod Kumar<sup>1</sup> · Shevita Pandita<sup>2</sup> · Sonia Mahey<sup>3</sup> · Rakesh Kumar<sup>4</sup>

Received: 14 August 2020 / Accepted: 1 November 2020  
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### Abstract

Numerous physical and chemical approaches are existing for metal elimination from the soil; nonetheless, phytoremediation is regarded as one of the paramount effective and cost-friendly approach. However, ample work has been done all over the world to appraise phytoremediation capability of plants in controlled conditions; only limited studies are existing on metal uptake abilities of plants cultivated under natural conditions. So, the present work estimates the phytoremediation potential of rice, imperative food crop cultivated in agricultural soils of Punjab with key objective to appraise the accretion and transport of metals (Zn, Cu, Mn, Cr, Cd, Ni, As and Pb) in roots, stems and leaves. Data was analysed by using Pearson's correlation analysis and heatmap analysis. Correlation analysis exhibited strong relationship among metals in soil and different tissues of rice. pH, soil organic carbon and phosphorus showed significant correlation with studied metal(loid)s in the soils affecting their availability and retention. In soil, highest and lowest concentrations of Zn and Pb were found for different sites, respectively. In rice among all the metals, Ni was found maximum in roots and stems, while Zn content was recorded maximum in leaves. The results of bioaccumulation factor and translocation factor were obtained above one for Zn, Mn, Ni, Cr, Cd and Pb, signifying the phytoremediation potential of rice in natural conditions.

**Keywords** Bioaccumulation factor · Heatmap analysis · Rice · Soil · Translocation factor

### Introduction

There is a growing apprehension concerning food safety due to environmental pollution (Kumar et al. 2017, 2019a), in which soil polluted with anthropogenic metalloids discharged from agronomic, industrial and urban aspects (Dogra et al. 2020; Moghtaderi et al. 2020). The soil pollution with metalloids is of worldwide issue due to its probable influence on the environs and human health (Kumar et al. 2019b, c; Pandit et al. 2020). The agricultural land is polluted by metalloids owing to mining, fossil fuel burning, pesticide and fertilizers

(Keshavarzi and Kumar 2019, 2020; Heidari et al. 2019). High toxicity of metalloids and their accretion leads to contamination of agricultural soils (Keshavarzi and Kumar 2020; Kumar et al. 2020). Once soil is polluted, it can influence both the growth as well as productivity of crops and also imposes perils to the human health through food chain (Zhao et al. 2014; Kumar et al. 2019d). Various metalloids are physiologically indispensable for living organisms as minor elements; however, when they occurred in extreme concentrations, they may exhibit detrimental influences on human beings and plants (Antoniadis et al. 2017).

Soil to crop relocation of metalloids is the foremost route of human revelation to metalloids. As a result of population explosion, the need for food supply is growing, and this has ensued enhanced usage of agrochemicals, manures, composts etc. (Setia et al. 2020). Food crops cultivated in metal-polluted soils can uptake and accrete metalloids in extents high ample to influence the food quality and safety (Sharma et al. 2019). Many nations have ardent severe attention to the monitoring of metalloids in food crops ensuing pollution of agricultural soils (Herawati et al. 2000; Emurotu and Onianwa 2017).

Worldwide, there are 50,000 edible crop plants; out of this, wheat, rice and maize provide 60% of the world's

Responsible Editor: Arpad Kallai

✉ Vinod Kumar  
[vinodverma507@gmail.com](mailto:vinodverma507@gmail.com)

<sup>1</sup> Department of Botany, Government Degree College, Ramban, Jammu 182144, India


<sup>2</sup> Department of Botany, University of Jammu, Jammu 180006, India


<sup>3</sup> Department of Botany, Giani Karor Singh Memorial Government College, Tanda, Umrar 146212, India

<sup>4</sup> Department of Botany, Datta College, Jalandhar 144001, India

Published online: 13 November 2020







**ISSN : 2277 - 4262**  
**Scientific Journal IF:5.744**

**INTERNATIONAL  
MULTIDISCIPLINARY E-JOURNAL**  
An International Peer Reviewed, Refereed Journal

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ਖਾਬ ਸੀ ਜੇ ਤੂੰ ਵੇਖਿਆ ਵਣ ਥੱਲੇ ਚੁੱਤਿਆਂ,

ਸੋਹਣਾ ਤੇਰਾ ਉਹ ਖਾਬ ਅੱਜ ਪ੍ਰੇਸਾਨ ਹੋ ਗਿਆ।

ਇਹ ਕਵਿਤਾ ਗੁਰੂ ਨਾਨਕ ਦੇ ਸੁਪਨੇ ਦਾ ਵਿਰੋਧ ਕਰਦੀ ਹੈ ਜੋ ਗੁਰੂ ਨਾਨਕ ਨੇ ਸਾਰੀ ਕਾਇਨਾਤ ਲਈ ਵੇਖਿਆ ਸੀ ਕਿ ਕਿਵੇਂ ਸਾਰੇ ਲੋਕ ਬਿਨਾ ਕਿਸੇ ਭੇਦ ਭਾਵ ਦੇ ਇੱਕਠੇ ਰਹਿ ਸਕਣ। ਪਰ ਇਹ ਕਵਿਤਾ ਉਸ ਸੁਪਨੇ ਦੇ ਖੇਰੂ-ਖੇਰੂ ਹੋਣ ਦੀ ਵਿਆਖਿਆ ਕਰਦੀ ਹੈ। ਮੁਲਖ ਦੇ ਟੋਟਿਆਂ ਭਾਰਤ ਤੇ ਪਾਕਿਸਤਾਨ ਦੇ ਰੂਪ ਵਿੱਚ ਵਟ ਗਿਆ ਅਤੇ ਜੇ ਕਦੇ ਤੇਰੀ ਖੱਬੀ ਅਤੇ ਸੱਜੀ ਅੱਖ ਦਾ ਪ੍ਰਤੀਕ ਸਨ ਤਾਂ ਕਿ ਇਕੋ ਸਨ। ਹੱਕ ਸੱਚ ਦੀ ਕਮਾਈ ਦਾ ਖਾਤਮਾ ਹੋ ਗਿਆ ਅਤੇ ਚਾਰੇ ਪਾਸੇ ਝੂਠ ਦਾ ਬੋਲਬਾਲਾ ਹੋ ਗਿਆ। ਇਸ ਕਵਿਤਾ ਰਾਹੀਂ ਕਵੀ ਇਹ ਦੱਸਣ ਦੀ ਕੋਸ਼ਿਸ਼ ਕਰਦਾ ਹੈ ਕਿ ਕਿਵੇਂ ਰਾਖੇ ਹੀ ਖੇਤ ਨੂੰ ਨਕਸ਼ਾਨ ਪਹੁੰਚਾ ਰਹੇ ਹਨ। ਇਸ ਕਵਿਤਾ ਦੇ ਅੰਤ ਵਿੱਚ ਕਵੀ ਨੇ ਗੁਰੂ ਨਾਨਕ ਸੰਬੰਧਨ ਕਰਦਿਆਂ ਲਿਖਿਆ ਹੈ ਕਿ ਤੂੰ ਰੱਬ ਨੂੰ ਵੰਗਾਰਿਆ ਤੇਨੂੰ ਵੰਗਾਰਾਂ ਮੈਂ, ਆਇਆ ਨਾ ਤੈਂ ਕੀ ਦਰਦ ਏਨਾ ਘਾਟ ਹੋ ਗਿਆ। ਨਾਨਕ ਬਾਣੀ ਸਮੁੱਚੀ ਲੋਕਾਈ ਲਈ ਹੈ ਜਿਸ ਵਿੱਚ ਨਾ ਕਿਸੇ ਦਾ ਵਿਰੋਧ ਹੈ ਅਤੇ ਨਾ ਹੀ ਕਿਸੇ ਦਾ ਡਰ ਹੈ।

ਸਾਹਿਤਕ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਗੁਰੂ ਨਾਨਕ ਬਾਣੀ ਇੱਕ ਮਹੱਤਵਪੂਰਨ ਉਪਲਬਧੀ ਹੈ। ਇਸ ਵਿੱਚ ਮੌਧਕਾਲੀਨ ਕਾਵਿ ਧਾਰਾ ਦੇ ਲਗਭਗ ਸਾਰੇ ਕਾਵਿ ਰੂਪ ਬਾਰਾਮਾਂਹ, ਅਲਾਹੁਟੀਆਂ, ਅਸਟਪਦੀਆਂ, ਪਹਿਰੇ, ਪੱਟੀ, ਬਾਵਨ ਔਖਰੀ, ਸੁਚੱਜੀ ਕੁਚੱਜੀ, ਗੀਸਟਿ ਅਤੇ ਵਾਰਾਂ ਉਪਲਬੱਧ ਹਨ। ਗੁਰੂ ਨਾਨਕ ਬਾਣੀ ਆਪਣੇ ਆਪ ਵਿੱਚ ਮਹਾਨ ਵਿਚਾਰਧਾਰਾ ਹੈ ਅਤੇ ਮਹਾਨ ਸ਼ਬਦਾਂ ਦਾ ਸੰਗ੍ਰਹਿ ਹੈ। ਗੁਰੂ ਨਾਨਕ ਬਾਣੀ ਦਾ ਇੱਕ-ਇੱਕ ਸ਼ਬਦ ਉਤਮ ਵਿਚਾਰ ਦੀ ਪੇਸ਼ਕਾਰੀ ਕਰਦਾ ਹੈ ਜੋ ਕੁਲ ਦੁਨਿਆਵੀ ਜੀਵਨ ਬਿਰਤਾਂਤ

ISSN 2348-3598

**VISION**  
**An International**  
**Journal**  
**of**  
**Humanities and Management**

Vol. VII

Issue 7

April 2020

Annual



## **Dasmesh Girls College**

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Website: [www.dgcmukerian.org](http://www.dgcmukerian.org)  
E-mail: [dgc\\_chakallabaksh17@rediffmail.com](mailto:dgc_chakallabaksh17@rediffmail.com)  
[dgc\\_ijohm14@rediffmail.com](mailto:dgc_ijohm14@rediffmail.com)  
Ph:01883-247895, M:94651-37136, Fax:01883-247995

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## ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਇਤਿਹਾਸਕ ਸਫ਼ਰ ਦਾ ਸੁਹਜ-ਸ਼ਾਸਤਰੀ ਅਧਿਐਨ

ਡਾ. ਕੁਲਵਿੰਦਰ ਕੌਰ

ਇਤਿਹਾਸਕ ਪੜ੍ਹਾਵਾਂ ਵਿੱਚੋਂ ਲੰਘਦੀ ਵੀਹਵੀਂ ਸਦੀ ਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਮੁੱਖ ਤੌਰ 'ਤੇ ਚਾਰ ਪੜਾਅ ਰੋਮੈਂਟਿਕ, ਪ੍ਰਗਤੀਵਾਦੀ, ਪ੍ਰਯੋਗਵਾਦੀ ਅਤੇ ਜੁਝਾਰਵਾਦੀ ਹਨ। ਇਨ੍ਹਾਂ ਪੜਾਵਾਂ 'ਚ ਪਹਿਲਾ ਪੜਾਅ ਅਧਿਆਤਮਵਾਦੀ ਸੁਧਾਰਵਾਦੀ ਪ੍ਰਵਿਰਤੀ ਦਾ ਹੈ, ਜਿਸ ਦੇ ਕਵੀ ਭਾਈ ਵੀਰ ਸਿੰਘ, ਪ੍ਰ. ਪੂਰਨ ਸਿੰਘ, ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਕ, ਲਾਲਾ ਕ੍ਰਿਪਾ ਸਾਗਰ, ਡਾ. ਦੰਦਾਨ ਸਿੰਘ ਕਾਲੇਪਾਣੀ, ਪ੍ਰ. ਮੋਹਨ ਸਿੰਘ ਦੀਵਾਲਾ ਹਨ। ਭਾਈ ਵੀਰ ਸਿੰਘ ਨੂੰ ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਮੋਢੀ ਹੋਣ ਦਾ ਮਾਣ ਪ੍ਰਾਪਤ ਹੈ ਅਤੇ ਉਸ ਨੂੰ ਨਿੱਕੀਆਂ ਕਵਿਤਾਵਾਂ ਲਿਖਣ ਕਰਕੇ 'ਨਿੱਕੀਆਂ ਕਵਿਤਾਵਾਂ ਦਾ ਵੱਡਾ ਕਵੀ' ਕਿਹਾ ਜਾਂਦਾ ਹੈ। ਪ੍ਰ. ਪੂਰਨ ਸਿੰਘ ਨੂੰ ਛੰਦ ਮੁਕਤ ਕਵਿਤਾ ਲਿਖਣ ਵਾਲਾ ਪਹਿਲਾ ਕਵੀ ਹੋਣ ਦਾ ਮਾਣ ਹਾਸਿਲ ਹੈ। ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਕ ਦੀ ਕਵਿਤਾ ਵਿੱਚ ਪੰਜਾਬ ਦੀ ਜਰਖੇਜ਼ ਜ਼ਮੀਨ, ਇਸ ਦੀ ਆਲੋਕਿਕ ਸੁੰਦਰਤਾ, ਪੰਜਾਬੀਅਤ ਦੀ ਮਾਣ ਮੜਕ ਤੇ ਪੰਜਾਬੀ ਬੋਲੀ ਪ੍ਰਤੀ ਸੋਚਾ ਪਿਆਰ ਉਸ ਨੂੰ ਸ਼ਾਹਸਵਾਰ ਕਵੀ ਬਣਾਉਂਦਾ ਹੈ, ਅਧਿਆਤਮਵਾਦੀ ਜਾਂ ਰੂਮਾਂਸਵਾਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦੇ ਸੁਹਜ ਦਾ ਉੱਘੜਵਾਂ ਲੱਛਣ ਇਸ ਵਿੱਚ ਮੌਜੂਦ ਰੋਮਾਂਸ ਹੈ। ਇਸ ਧਾਰਾ ਦੇ ਕਵੀ ਪ੍ਰ. ਪੂਰਨ ਸਿੰਘ, ਧਨੀ ਰਾਮ ਚਾਤ੍ਰਕ ਅਤੇ ਸ਼ਿਵ ਕੁਮਾਰ ਹਨ। ਪੰਜਾਬੀ ਕਵਿਤਾ ਵਿੱਚ ਪੇਸ਼ ਸੁਹਜ ਦਾ ਮੂਲ ਆਧਾਰ ਇਸ ਵਿੱਚ ਸ਼ਾਮਿਲ ਤੌਰ ਬਿੰਬ, ਅਲੰਕਾਰ, ਲੈਅ ਜਾਂ ਕਾਵਿ ਕਿਰਤ ਬਾਰੇ ਕਿਸੇ ਨੇ ਖੂਬ ਕਿਹਾ ਹੈ।

'ਕਾਵਿ ਕਿਰਤ ਨਾ ਹੀ ਪ੍ਰਾਕ੍ਰਿਤਕ ਤੇ ਸਮਾਜਿਕ ਵਸਤਾਂ ਵਾਂਗ ਹੁੰਦੀ ਹੈ ਅਤੇ ਨਾ ਹੀ ਬਾਹਰਲੇ ਜਗਤ ਦੀ ਸਾਬਦਿਕ ਤਸਵੀਰ ਹੀ ਹੁੰਦੀ ਹੈ। ਇਹ ਬਾਹਰਲੇ ਅਤੇ ਅੰਦਰਲੇ ਜਗਤ ਦਾ ਬਿੰਬ ਹੈ ਜੋ ਮਨੁੱਖ ਦੀ ਹੋਂਦ ਦੇ ਅਨੇਕਾਂ ਖਸਾਰਾਂ ਰਾਹੀਂ ਪਛਾਣਿਆ ਜਾ ਸਕਦਾ ਹੈ। ਨਿੱਕੀ ਤੋਂ ਨਿੱਕੀ ਅਤੇ ਵੱਡੀ ਤੋਂ ਵੱਡੀ ਇਕਾਈ ਤੇ ਇਨ੍ਹਾਂ ਸਭ ਦੀ ਸਮੁੱਚਤਾ ਨੂੰ ਕਿਸੇ ਲੈਅ, ਛੰਦ, ਗਤੀ ਅਤੇ ਪ੍ਰਤੀਕਾਂ ਦੁਆਰਾ ਦਿਸਦੇ ਤੇ ਅਣਦਿਸਦੇ ਪ੍ਰਾਪਤ ਤੇ ਅਪ੍ਰਾਪਤ ਨੂੰ ਸਾਢੇ ਤੌਰ 'ਤੇ ਕਵਿਤਾ ਵਿੱਚ ਬਹੁਅਰਥਕਤਾ ਮਿਲਦੀ ਹੈ। ਕਵੀ ਭਾਸ਼ਾ ਰਾਹੀਂ ਇਨ੍ਹਾਂ ਸਭ ਤੌਰਾਂ ਦੀ ਅਭਿਵਿਅਕਤੀ ਕਰਦਾ ਹੈ।

1935 ਦੇ ਨੇੜੇ ਪ੍ਰਗਤੀਵਾਦੀ ਵਿਚਾਰਧਾਰਾ ਨੇ ਪੰਜਾਬੀ ਦੇ ਸਰਬਪੱਖੀ ਵਿਕਾਸ ਵਿੱਚ ਅਹਿਮ ਯੋਗਦਾਨ ਪਾਇਆ। ਇਸ ਧਾਰਾ ਵਿੱਚ ਸ਼ਾਮਿਲ ਸੁਰਜੂਆ ਵਿਚਾਰਧਾਰਾ, ਇਨਕਲਾਬ ਸਾਮਰਾਜੀ ਲੈਂਟ, ਅਮਨ, ਕਿਰਤ ਦੇ ਗੌਰਵ ਤੇ ਮਨੁੱਖੀ ਮੁਕਤੀ ਦੇ ਨਵੇਂ ਸੰਕਲਪ ਸਾਹਿਤਕ ਵਿਧਾ ਦੇ ਕੇਂਦਰੀ ਸਰੋਕਾਰ ਬਣੇ। ਇਸ ਧਾਰਾ ਦੇ ਕਵੀ ਪ੍ਰ. ਮੋਹਨ ਸਿੰਘ, ਐੱਮ੍ਰਤਾ ਪ੍ਰੀਤਮ, ਬਾਵਾ ਬਲਵੰਤ, ਪ੍ਰੀਤਮ ਸਿੰਘ ਸਰੀਰ, ਸੰਤੋਖ ਸਿੰਘ ਧੀਰ, ਹਰਭਜਨ ਹੁੰਦਲ, ਗੁਰਚਰਨ ਰਾਮਪੁਰੀ ਹਨ। ਇਨ੍ਹਾਂ ਕਵੀਆਂ ਨੇ ਪੰਜਾਬੀ ਕਾਵਿ ਭਾਸ਼ਾ ਦੀ ਸੰਚਾਰ ਅਤੇ ਸਮਰੱਥਾ ਵਿੱਚ ਵੀ ਪ੍ਰਗਤੀ ਲਿਆਈ। ਪ੍ਰ. ਮੋਹਨ 'ਸਾਢੇ ਪੱਤਰ' ਕਾਵਿ ਸੰਗ੍ਰਹਿ ਰਾਹੀਂ 'ਯੁੱਗ ਕਵੀ' ਦੇ ਨਾਂ ਨਾਲ ਜਾਣਿਆ ਜਾਣ ਲੱਗਾ। ਬਾਵਾ ਬਲਵੰਤ ਦੀ ਕਾਵਿ ਕਲਾ, ਜਜ਼ਬੇ ਦੀ ਗਹਿਰਾਈ ਸਬਦਾਂ ਦੀ ਸੁਰਤਾਲ ਅਤੇ ਰਮਜਾਂ ਨਾਲ ਭਰਪੂਰ ਹੈ। ਐੱਮ੍ਰਤਾ ਪ੍ਰੀਤਮ ਮਰਦ ਪ੍ਰਧਾਨ ਸਮਾਜ ਵਿੱਚ ਔਰਤ ਦੀ ਆਵਾਜ਼

\* ਅਸਿਸਟੈਂਟ ਪ੍ਰੋਫੈਸਰ, ਜੀ.ਕੇ.ਐੱਸ.ਐੱਮ., ਗੌਰਮਿੰਟ ਕਾਲਜ, ਟਾਂਡਾ, ਉਤਮੁੜ।





ISSN : 2277 - 4302  
 Scientific Journal IF 5.744

**INTERNATIONAL  
 MULTIDISCIPLINARY E-JOURNAL**  
 An International Peer Reviewed, Refereed Journal

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## ਗੁਰੂ ਨਾਨਕ ਬਾਣੀ ਦਾ ਸੰਗੀਤਕ ਮਹੱਤਵ

### ਵਰਿੰਦਰ ਕੁਮਾਰ

ਸਰਕਾਰੀ ਕਾਲਜ ਟਾਂਡਾ

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ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਨੇ ਜਿੱਥੇ ਗੁਰਬਾਣੀ ਰਾਹੀਂ ਸਮੁੱਚੀ ਮਨੁੱਖਤਾ ਨੂੰ ਨਾਮ ਜਪ, ਕਿਰਤ ਕਰੇ ਤੇ ਵੰਡ ਛੱਕੇ ਦਾ ਸੰਦੇਸ਼ ਦੇ ਕੇ ਸਭ ਨੂੰ ਇੱਕ ਲੜੀ ਵਿੱਚ ਪਰੋਣ ਦਾ ਯਤਨ ਕੀਤਾ ਹੈ ਉੱਥੇ ਆਪਣੇ ਸਾਥੀ ਮਰਦਾਨੇ ਰਾਹੀਂ ਸੰਗੀਤਕ ਰੰਗ ਨਾਲ ਦੁਨੀਆਂ ਨੂੰ ਆਤਮਿਕ ਆਨੰਦ ਪ੍ਰਦਾਨ ਕੀਤਾ ਹੈ। ਜਿਸ ਵਿੱਚ ਉਨ੍ਹਾਂ ਦੀ ਤੱਕ ਮਰਦਾਨਿਆਂ ਰਬਾਬ ਛੋਰ ਬਾਣੀ ਆਈ ਹੈ...ਰਾਹੀਂ ਸੰਗੀਤਕ ਧੁਨਾਂ ਰਾਗਾਂ ਦਾ ਰੂਪ ਧਾਰਨ ਕਰਦੀਆਂ ਹਨ। ਡਾ.ਮਹਿੰਦਰ ਕੌਰ ਗਿੱਲ

ਸੰਗੀਤ ਹਰ ਸਭਿਅਤਾ ਦੀ ਜਿੰਦਜਾਨ ਰਿਹਾ ਹੈ। ਸ਼ਿਸ਼ਟੀ ਦੀ ਪ੍ਰਗਤੀ ਸੰਗੀਤ ਦਾ ਸਭ ਤੋਂ ਵੱਡਾ ਯੋਗਦਾਨ ਹੈ।

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ਗੁਰਬਾਣੀ ਦਾ ਮੁੱਖ ਸੰਚਾਰ ਮਾਫਲ ਰਾਗ ਪ੍ਰਬੰਧ ਹੈ। ਰਾਗ ਪ੍ਰਬੰਧ ਦੀ ਸਿਰਮੋਰਤੀ ਨੂੰ ਬਰਕਰਾਰ ਰੱਖਣ ਦੇ ਨਾਲ-ਨਾਲ ਸਾਹਿਤਕ ਕਾਵਿ ਰੂਪ ਅਸ਼ਟਪਦੀਆਂ, ਸਿਲਹੇ, ਜਲੋਕ, ਪਾਉੜੀਆਂ ਆਦਿ ਲੋਕ ਸ਼ੈਲੀਆਂ ਨਾਲ ਸੰਯੁਕਤ ਹਨ। ਇਹਨਾਂ ਸ਼ੈਲੀਆਂ ਨੂੰ ਗੁਰੂ ਸਹਿਬਾਨ ਨੇ ਵੱਖ-ਵੱਖ ਲੋਕ ਧੁਨਾਂ ਰਾਹੀਂ ਪੇਸ਼ ਕੀਤਾ ਹੈ।

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## Relevance of Soft Skills at Today's Workplace

Smita Chakrabarti

Department of English

G.K.S.M. Govt. College, Tanda Urmar, Delhi

**Abstract:** Soft skills are in great demand at workplace of today. In today's scenario of cut-throat competition, hard skills alone are not sufficient. Communication skills, soft communication, working in a team, problem solving skills, decision making, leadership and team building are the basic emotional and cognitive skills making up the soft skills. One may have a good hard skills but poor soft skills. However, the reality is that the employer these days can hardly be called picky in soft skills. Their superficial knowledge of these skills actually does some harm than any good. The reason for this might be deep-rooted emphasis on these skills in schools and colleges as well as in on-the-job training. Soft skills have to be taught consistently from the primary level they become an inseparable part of the personality of the learner. Training, however, also, has to do the trick. Learners had to make consistent efforts to learn these skills so that they eventually learn a part of their personality.

**Keywords:** hard skills, soft skills, interpersonal skills, communication skills, emotional intelligence

The work scenario of today is a lot different from the work scenario of yesterday. We today live in a global economy characterized by rapid change, ever-changing technological breakthroughs and an unprecedented level of competition. These developments create demands of much higher levels of education and training than ever before. The workplace of today demands a workforce which is more than well-versed. One needs to possess two professional and technical skills. Apart from that, the modern times ask for a greater capacity for innovation, self-management, personal responsibility, and self-direction on the part of an employee. In other words, to truly be successful at work today, one needs to have both sets of skills i.e. hard skills as well as soft skills. Hard skills are the job-specific skills. They are mostly quantifiable and often learned in educational institutions. These are the technical skills that you need a reputation of to be productive at your workplace. Soft skills, by contrast, are the interpersonal relationship-building skills. The acquisition of these skills makes an employee an asset for his organization and enables him to build constructive working relationships. The one having soft skills can recognize and manage his own and others' emotions. Whereas hard skills are the tangible and technical skills, soft skills are the intangibly intangible and non-technical skills. They are much more personal than the hard skills.

The soft skills are also called "people skills", "interpersonal skills", "social skills" or "transferable skills". These skills have been defined as "collection of positive attributes and competencies that can improve work performance and productivity, enhance relationships, and make an individual more successful in the workplace". They are closely linked to emotional intelligence – i.e. the ability to understand, use and manage one's emotions, communicate effectively, empathize with others, overcome challenges and defuse conflict. The term "soft skills" denote "a wide range of skills as diverse as teamwork, time management, empathy and delegation". They are as important as, if not more important than, the hard skills i.e. the technical know-how. A company manager, for example, who has the soft skills of understanding, active listening, approachability and empathy for the people working under him will be undoubtedly more successful than a manager having a degree from a top management school. Similarly, a self-person having an extensive knowledge of the field of any profession but who does not have skills like communication skills, self-motivation and reputation. Soft skills are not just only required while dealing with customers and clients. They are equally important when it comes in interacting with colleagues. Employers actually value those employees who can best fit with a team and get along with others, motivate colleagues, resolve conflict as and when required, respond calmly to criticism – as they do a benefit of the team.

The importance of soft skills at workplace is being increasingly recognized these days. The World Economic Forum in its report "The Future of Jobs" published on 13th 2013 predicted that by 2020 complex problem solving, critical thinking, creativity, people management and emotional intelligence would be among the most important skills required in the workplace. Companies these days have a big lot of self-to-select from. Hence competition has become a lot more cut-throat and competitive than in the past times. In such a



## EXPLORING THE INDELIBLE SCARS AND EXILE IN HERTA MULLER'S THE PASSPORT: AN ANALYTICAL STUDY

Deepak Kapur<sup>1</sup>, Dr. Gowhar Ahmad Nalik<sup>2</sup>

<sup>1</sup>Ph.D. Research Scholar, School of Humanities, Lovely Professional University,  
Phagwara, Punjab, India

<sup>2</sup>Assistant Professor, School of Humanities, Lovely Professional University,  
Phagwara, Punjab, India

### ABSTRACT

This research paper studies the novel *The Passport* by Herta Müller, especially the issues of suffering and exile experienced by persons subject to a totalitarian regime. In this novel, a German family wants to emigrate from the Romanian totalitarian regime and faces horrible hardships in the process. The officials of the regime perpetrate unspokeable suffering as they force the commoditization of every woman that attracts their whims and fancies. The official of the Romanian regime, be it the militiaman or the priest, indulge in rampant corruption. Women, who are exploited, face intense mental trauma and withdraw themselves from active life. In the novel, *The Passport* the characters exchange madness with fear and face mental derangement as well as death.

**Keywords:** Exile, trauma, totalitarian regime, indelible scars

### INTRODUCTION

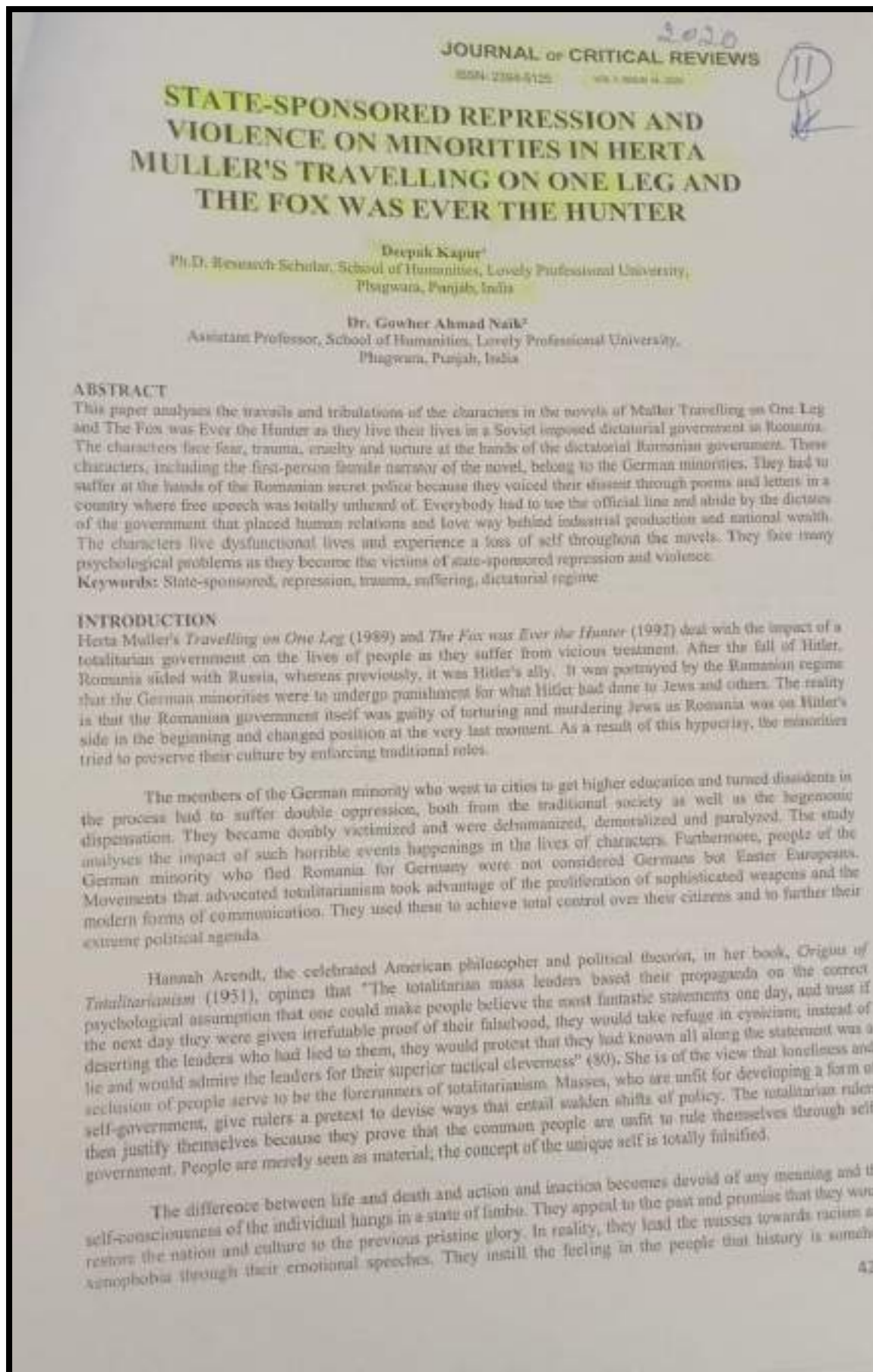
The author has discussed the traumatized and dehumanized condition of the characters in the novel. The plot begins with the protagonist Windisch cycling along the road to the flour mill. He passed in front of the war memorial and then by the poplar trees. He counted years and days as he cycled along the path. In the evening, when he locked the mill, he again counted the years and days. He was counting time because he wanted to emigrate from the country and had applied for a passport. One night, Windisch went to the mill to take a sack of flour. He awakened the night watchman, Konrad. The night watchman was a soldier who was put on guard duty by the totalitarian regime. He knew that Windisch had taken the sack of flour for the mayor. He frequently bribed the mayor for his passport. Windisch was greatly worried because the mayor had exploited a lot of women. He suspected, "My daughter, my Amalie is no longer a virgin either... I can't look her in the eye anymore. There's a shadow in her eyes" (6). Both Windisch and the night watchman believed in superstitions, which was prevalent in a system that opposed free thought. An owl flew over the pond beside the mill. The widow Kroner, joiner's mother, was on her death bed. The joiner had already made a coffin for her and had written her name over it. The night watchman said, "She can't die. The owl hasn't settled on any roof yet" (6).

Windisch had been a prisoner of war in Russia. He loved Barbara but she died in Russia. Windisch's wife, Katharina, also had returned from Russia. There, she wanted to marry Joseph. Unfortunately, Joseph also died in the war. Both of them had held to life in spite of losing their loved ones. They tied their life to each other. Katharina was in a labour camp in Russia for five years. Her head was shaved and she worked in a coal mine.

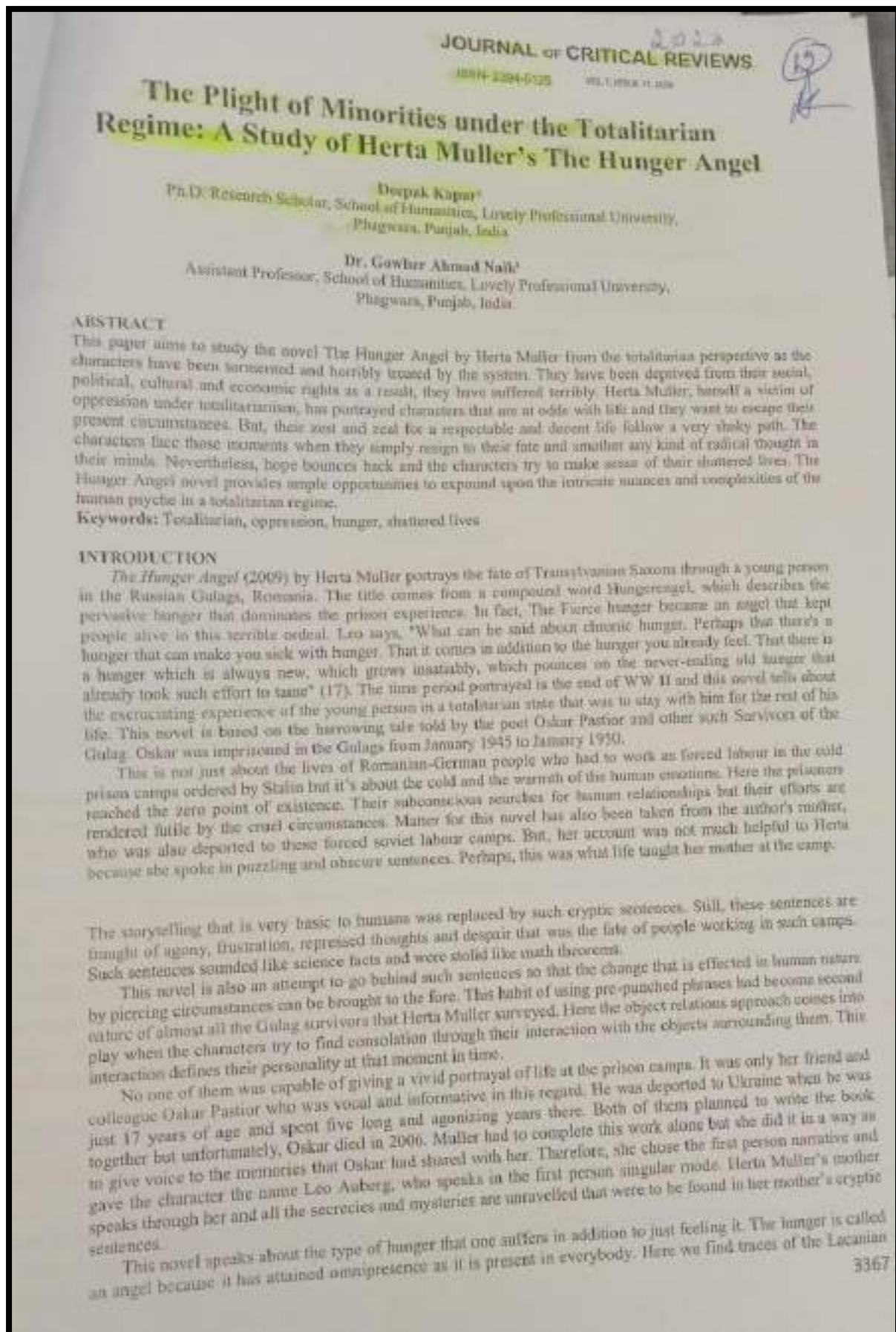
She slept in a hut with iron beds. She gradually sold her winter coat, her wooden blanket and other belongings for bread as she was unable to bear the pungent hunger. The third-year, she had nothing to sell. She slept with a cook for some hot and sweet potatoes. The cook died that year. The next year Katharina slept with a doctor. He gave her a white slip declaring that she was ill. She was exempt from mine work for three days. The next winter, the doctor also died. Katharina went into another man's iron bed. He was a gravedigger. He gave her meat from the funeral meals in the village.

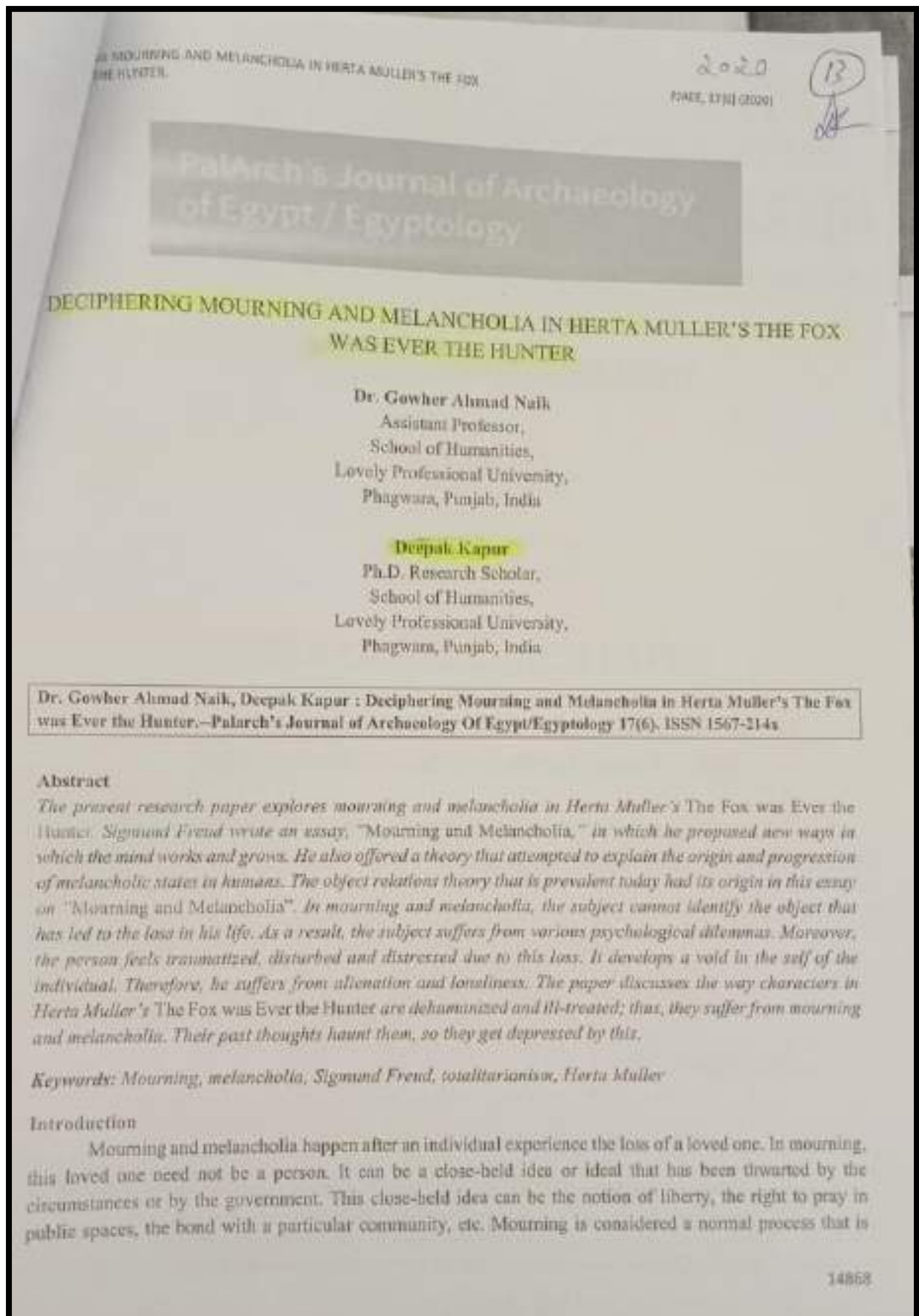
In the fifth year, the gravedigger died. She put on his coat and crawled through the fence along with the snow. She went to an old Russian woman in the village. She stayed with her and milked her goats. The coming spring, green military trucks drove into the countryside. Women climbed onto those trucks and she also climbed on one of them. The trucks did not go back to the mine. They stopped in front of a little station. She boarded one train and wept with happiness. At last, she was free to go back to her country-Romania.

Windisch took the sack to the mayor's house and kept it under the roof. He did not knock at his window. A long time back, the mayor had said, "Why do you still knock? Put the flour in the yard. The gate is open... Another five deliveries, Windisch, then the money at new year, And at Easter you'll have your passport" (12-13). But, Windisch had delivered flour twelve times and had paid ten thousand lei since then. Easter also had long been past.









ISSN - 2229-3620  
APPROVED UGC CARE

SHODH SANCHAR BULLETIN  
Vol. 10, Issue 27 (0), January-March 2020  
Page Nos. 1173-1176

AN INTERNATIONAL BILINGUAL, PEER REVIEWED REFERRED RESEARCH JOURNAL

**Trauma and Melancholia : A Psychoanalytic Study of  
The Land of Green Plums by Herta Muller**

ABSTRACT

This paper analyses Herta Muller's *The Land of Green Plums* from the perspective of Psychoanalytical criticism. Psychoanalytical criticism attempts to delve deep into the psyche of the characters to track it as an in-depth appraisal of a work of art. Characters, which are portrayed living in a dictatorial regime, suffer from Trauma and Melancholia. Diving deep into these psychoanalytical elements also gives us profound understanding of the characters as well as unconscious workings of the author. Thus, psychoanalytical criticism validated any work of art as well as enhances its creative potential. In the novel *The Land of Green Plums*, the main characters suffer under a dictatorial regime and try to find ways to regain their identity that has been repressed by the totalitarian regime.

**Keywords:** Psychoanalytical Criticism, Totalitarianism, Trauma, Herta Muller

In the beginning of the novel, Edgar says, "When we don't speak we become unhuman, and when we do, we make a fool of ourselves." (Page 1). The story is being narrated by a character who was sitting along with Edgar. The persons were sitting and staring at the pictures on the floor for a long time. Person in each picture was dead and in case of some a suicide. Each of the living had to live in the country in abject fear because Romania was under a Soviet sponsored dictatorial regime of Nicolae Ceausescu. Even, if they had to fall in love they had to fear if it was the right person whom they were falling in love with.

Then there is a flashback and the story moves to the character Lola. Her face indicated that she came from a poor province because it was sunken. Although each province in the country was poor, the province from which Lola came was poorer than the rest. Then, the narrative talks about Lola's diary. In her diary Lola wrote about a drought that destroyed everything, except sheep, melons and mulberry trees (Page 2). Lola came from her village to the city to become somebody. Then the narrative talks about the mulberry trees in the city that were mostly in the courtyard and not at the sides of the streets.

Lola had come to the city for four years to study Russian. The entrance exam was easy and she was abundant. She got admission in a school. She had to share her small cubical with six girls. The room had one window, one closet, six beds and a loudspeaker fitted in the ceiling. From the loudspeaker came the voice of workers singing choruses, till night fall. There were forty such identical rooms in each dormitory.

Lola had fewer dresses than the other girls. She wore all of them. The girls covered for nylon stockings because they had heavy stockings that came cheap all over the country. Then Lola thinks of her childhood when she was tied to a chair with the bells from her dresses. She was tied in this way by her mother because Lola did not want her nails to be cut. As her mother cut her nails, Lola fears that her fingers would also be cut by the nail-clippers. She further thought that then her mother would pick her cut fingers and throw them in the courtyard. This shows her imagination as a state of mind as a child.

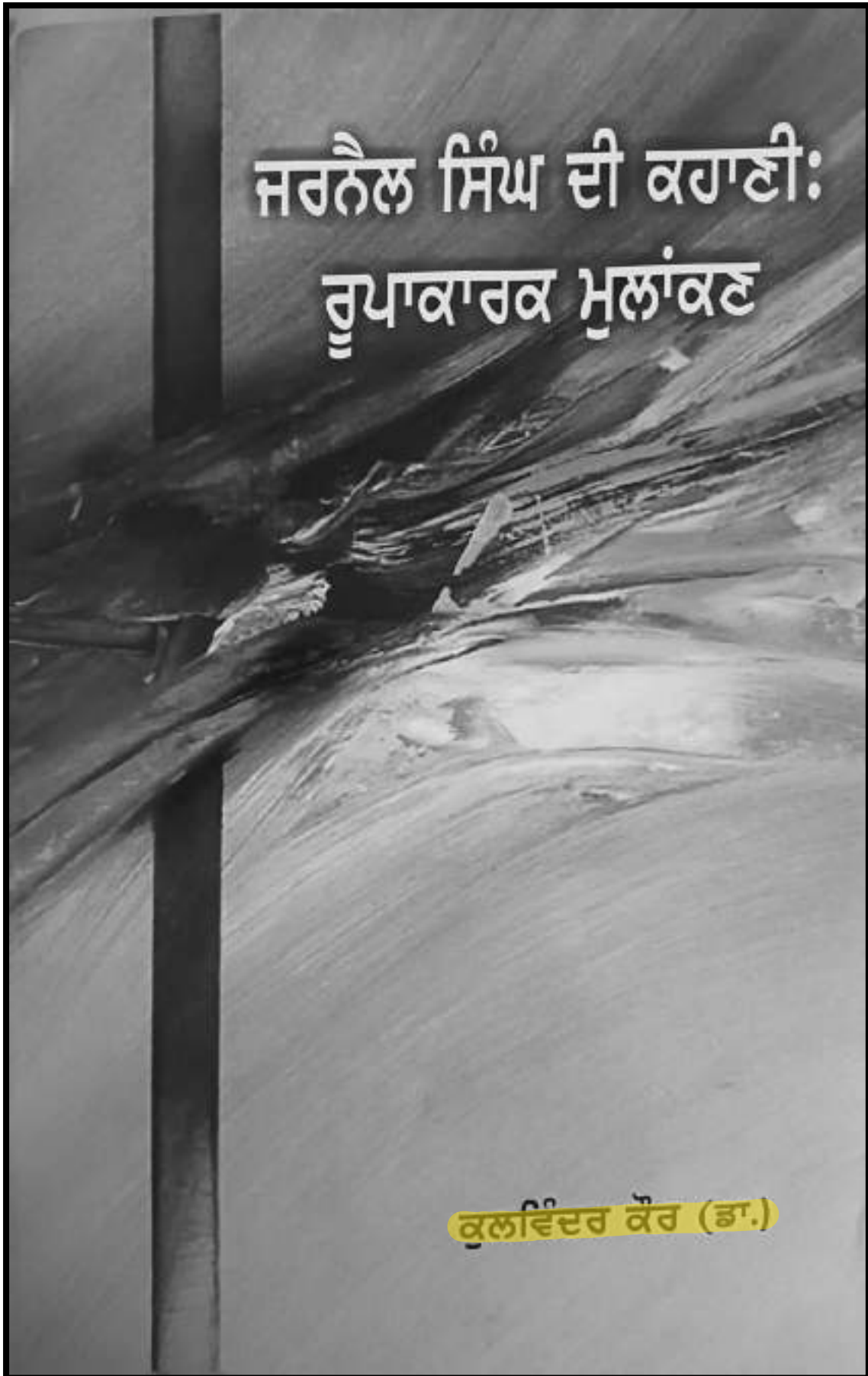
Lola had the least number of white-pinkish nylon. The few she had were patched together with nail polish and at the ankles, thighs and calves. The narrative reads from Lola's diary that she had craving for white shirts.

Associate Professor of English, G.K.S.M. Government College, Tanda-Urmur, Punjab, India

Vol. 10 • Issue 27 (0) • January to March 2020 **SHODH SANCHAR BULLETIN** 1173 BILINGUAL INTERNATIONAL RESEARCH JOURNAL







## ਤਤਕਰਾ

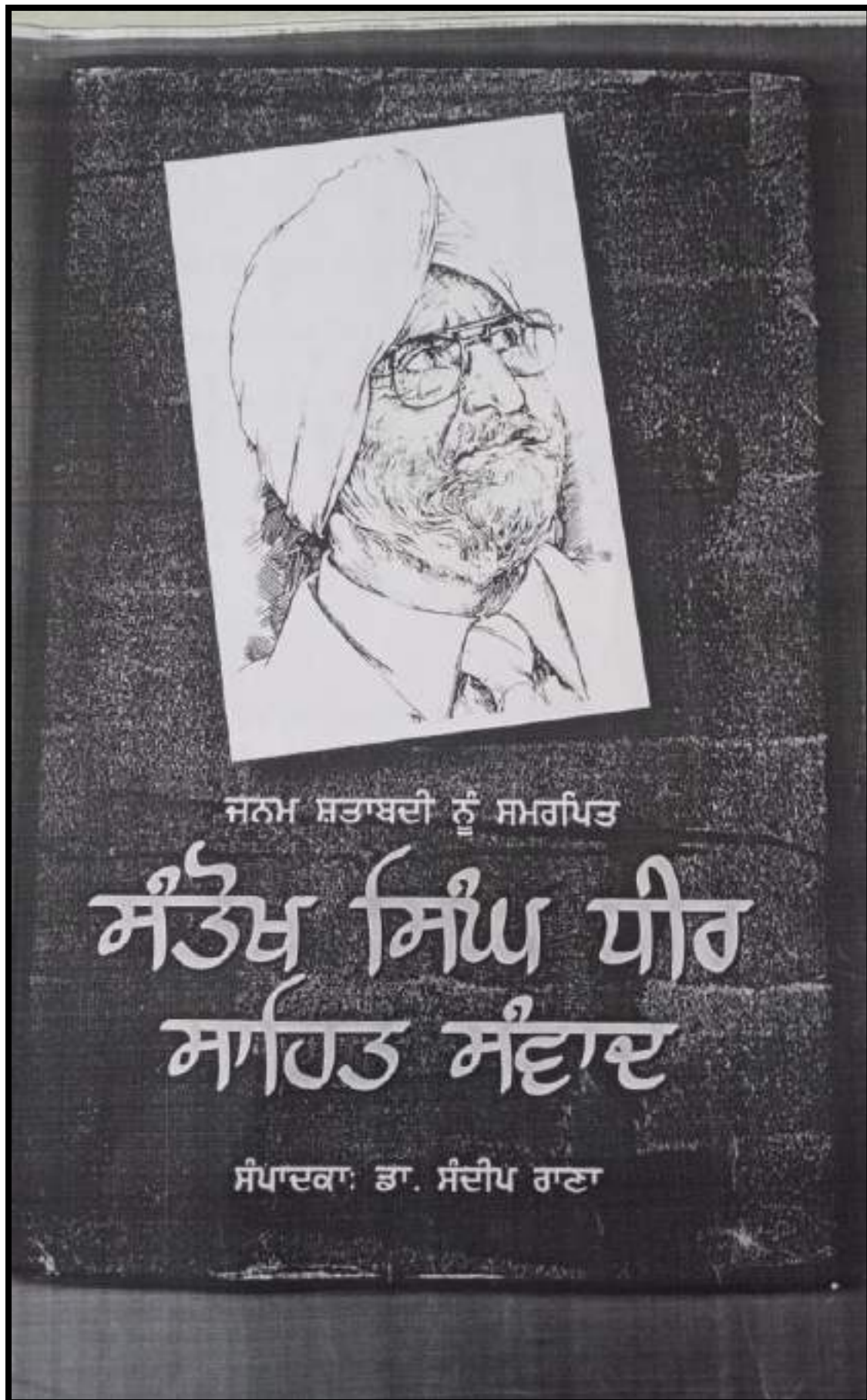
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**ਕੁਲਵਿੰਦਰ ਕੌਰ (ਡਾ.)**







2020

First edition published in 2020 by  
**TWENTYFIRST CENTURY PUBLICATIONS**  
# 79, Sheikhpura, P.O. Punjabi University, Patiala (PB) - 147002  
Ph. 90564-53888, 92167-53888  
e-mail : rinku\_randhawa77@yahoo.com

*In Association with*

**BOOKMAN**

B-41, Sawan Park  
Ashok Vihar, Phase - 3  
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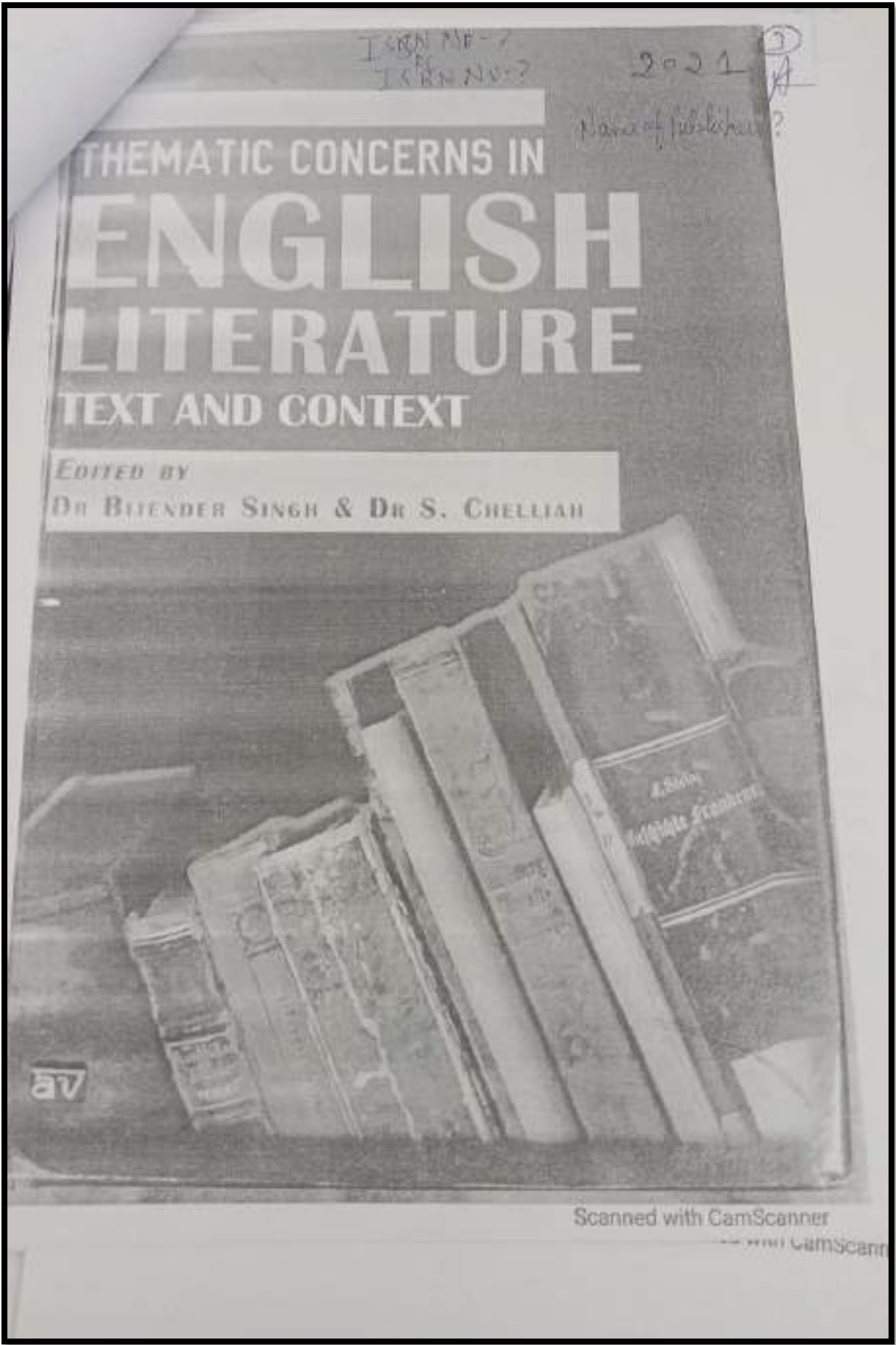
ਡਾ. ਸੰਦੀਪ ਰਾਣਾ

ISBN : 978-93-90154-95-1

Price : 200/-

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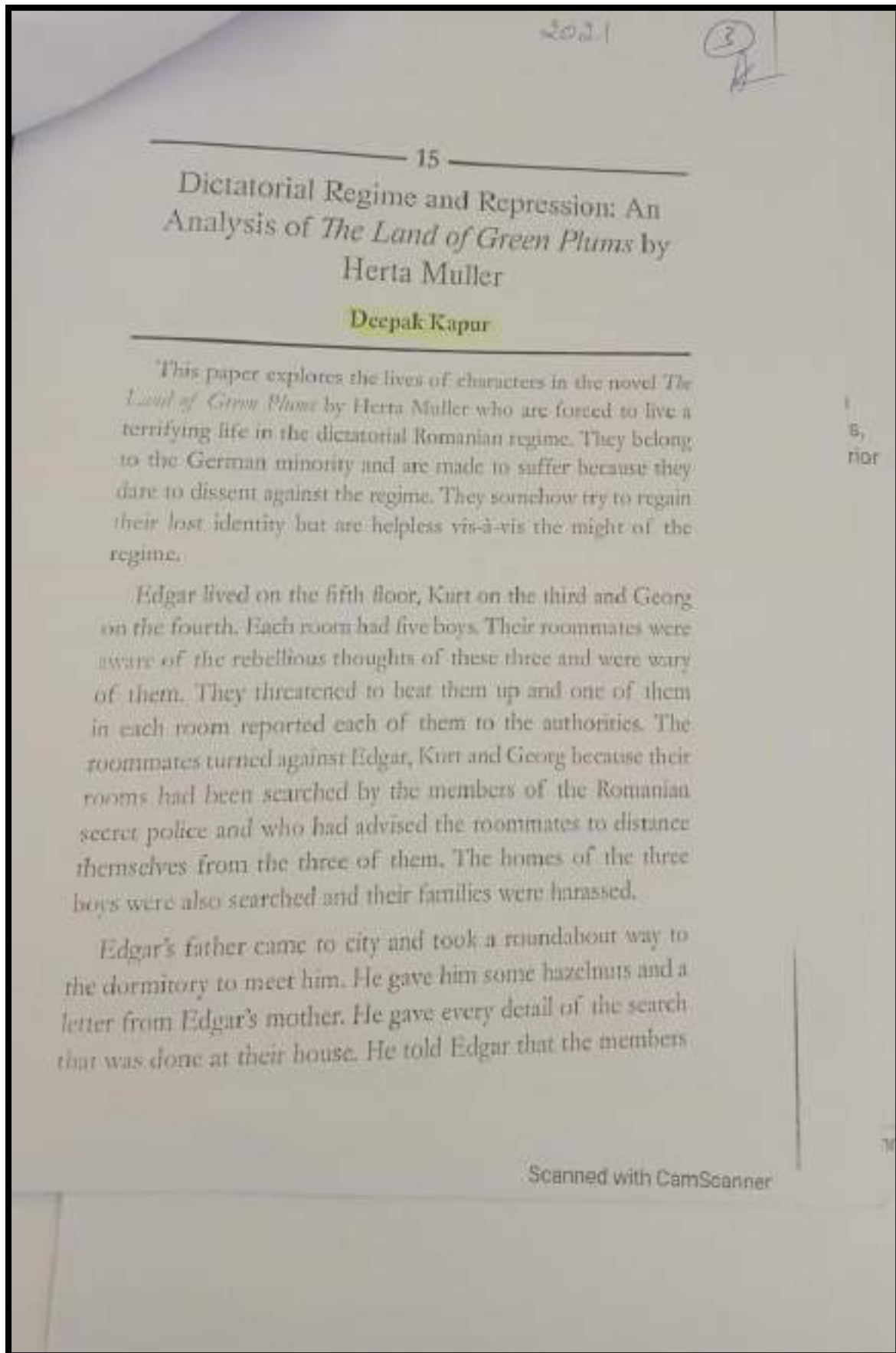
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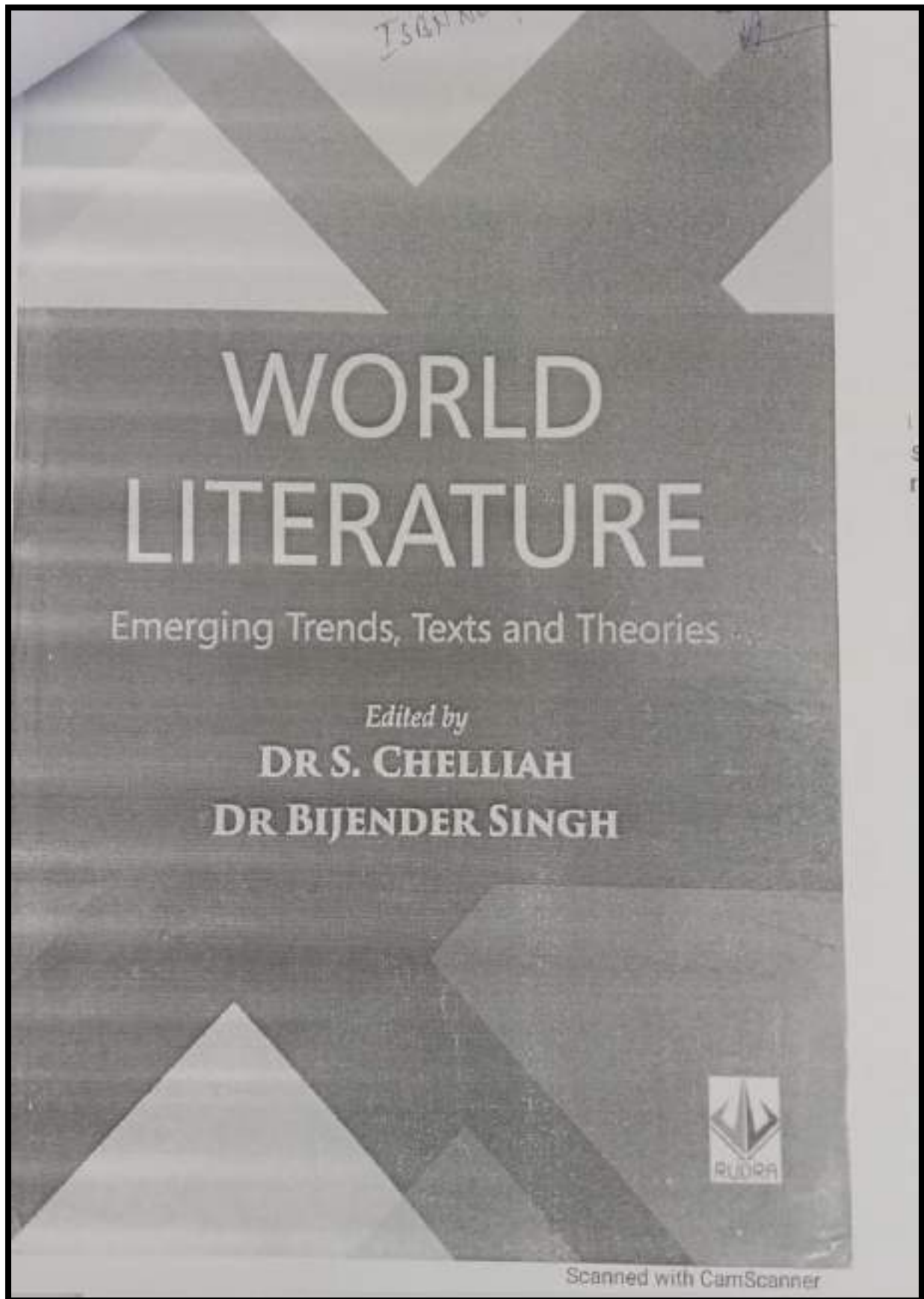


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**World Literature:  
Emerging Trends, Texts and Theories**

Dr. S. Chelliah and Dr Bijender Singh

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First Published 2020

**ISBN: 978-93-88361-42-2**

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*Published in India by:*

**RUDRA PUBLISHERS & DISTRIBUTORS**

C-293 A, Street No. 3, West Karawal Nagar,  
New Delhi - 110094

Mob: 9312442975

E-mail: rudrapublishers@yahoo.com

*Typesetting by:*

Sinha Computers, New Delhi

Mobile : 9582774456, 9717540980

*Printed at*

Research Press India, New Delhi.

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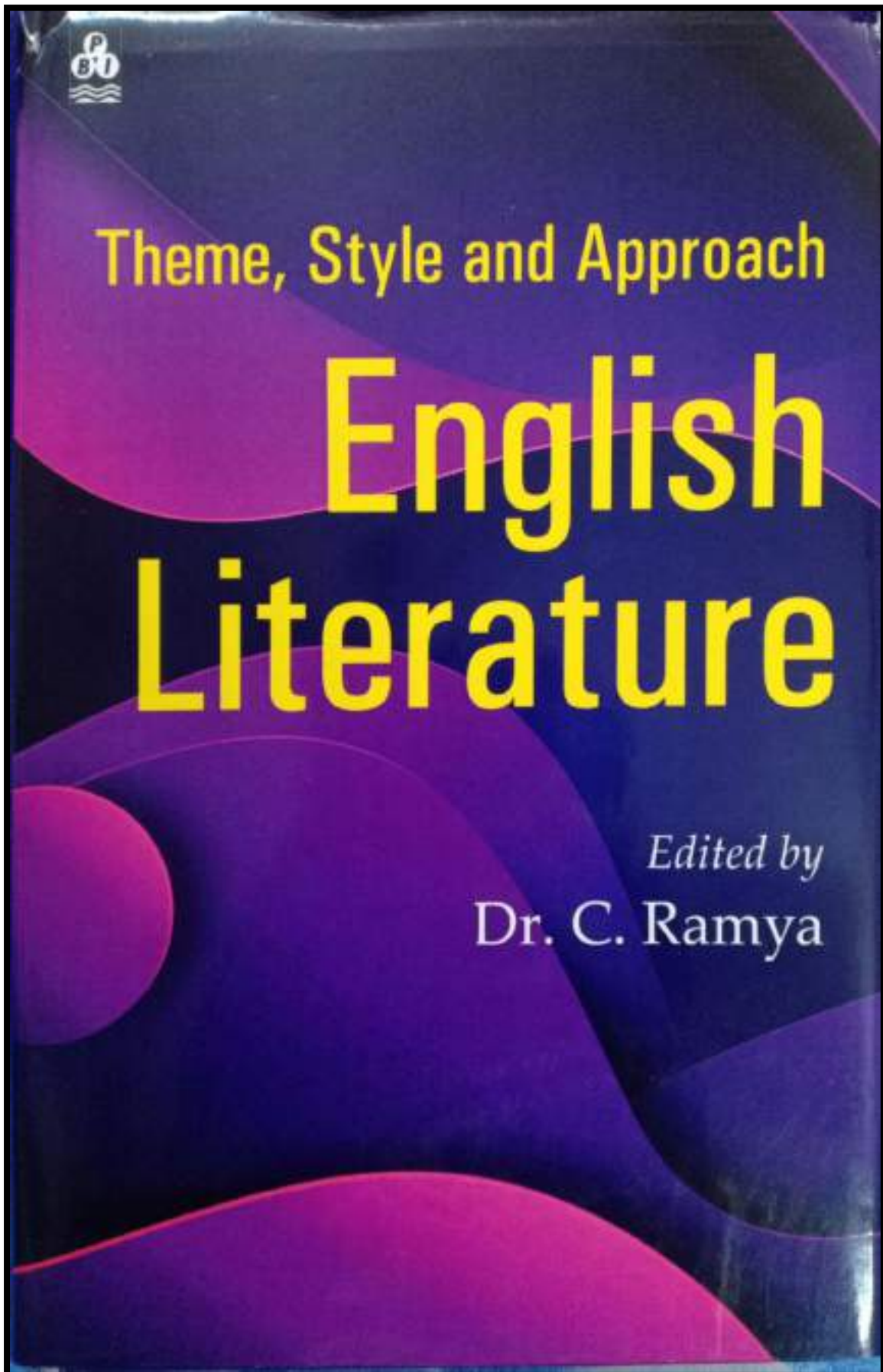
## The Interdisciplinary Hermeneutic: It's Role in the Socio-cultural Episteme

Deepak Kumar

This paper explores the meaning and importance of Interdisciplinary Hermeneutic in the present times, especially when today's world has become a melting pot of different cultures, ideologies and ways of living. Hermeneutics comes from the Greek word *hermeneia*, which means a translation. Hermeneutics when simply put means to take our understanding to different realms. When we think about people of ancient times, their values, their modes of being and try to relate it to the present times, we apply hermeneutics in a very simple and non-rigorous way. In this way our perspective widens and we learn as to how different perspectives work alone as well as collectively. Paul Ricoeur, the French philosopher, famously said, "Every hermeneutic is...self-understanding by means of understanding others."

The term 'interdisciplinary' was first used during the 1920s whereas hermeneutics has had a very long past. However, hermeneutics was used in its particular philosophical sense by Martin Heidegger in 1923. The time period between the two world wars was a very turbulent one even in the intellectual circles. It is during this time that both interdisciplinarity and hermeneutics were discussed widely. Human consciousness suffered from alienation

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**Theme, Style and Approach: English Literature**

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First Published 2020

**ISBN : 978-93-88536-61-5**

The opinions/views expressed in this book are solely of the authors and do not represent the opinions/standings/thoughts of Pacific Books International and Editor.

*Published by :*

**Pacific Books International**

108, First Floor, 4832/24, Prahlad Street,

Ansari Road, Darya Ganj,

New Delhi - 110 002

Ph.: 011-23268444, Mob.: 9212526400

e-mail: [pacificbooks@rediffmail.com](mailto:pacificbooks@rediffmail.com)

[pacificbooksinternational@gmail.com](mailto:pacificbooksinternational@gmail.com)

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

*Typesetting by :*

**Sanya Computers**

Delhi

*Printed at :*

**Roshan Digital Printing**

Delhi

Printed in India

Scanned with CamScanner

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### **Analysis of Herta Muller's *Travelling on One Leg* and *The Fox was Ever the Hunter* from the Perspective of Totalitarianism and Hegemony**

—Deepak Kapur

This paper analyses Herta Muller's *Travelling on One Leg* (1989) and *The Fox was Ever the Hunter* (1992) to find out the impact of a totalitarian government on the lives of people. Before this is done, a discussion about Totalitarianism and Hegemony is required. After the fall of Hitler, Romania sided with Russia whereas previously it was Hitler's ally. It was portrayed by the Romanian regime that the German minorities were to undergo punishment for what Hitler had done to Jews and others. The reality is that the Romanian government itself was guilty of torturing and murdering Jews as Romania was on Hitler's side in the beginning and changed position at the very last moment. As a result of this hypocrisy, the minorities tried to preserve their culture by enforcing traditional roles.

The members of the German minority who went to cities to get higher education and turned dissidents in the process had to suffer double oppression, both from the traditional society as well as the hegemonic

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## Role of Plant Secondary Metabolites as Anticancer and Chemopreventive Agents

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Jeevanjot Kaur, Sonia Mahey, Pankaj Ahluwalia, Rakesh Joshi, and  
Rakesh Kumar

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### Abstract

5

Cancer is a life-threatening disease, and its treatment is a challenge for medical science since its inception. This disease is characterized by uncontrolled cell division, and hence its treatment relies on rectifying the functioning of cellular processes. It is estimated that cancer patients will increase by 70% in the coming two decades. Although innumerable drugs are available to treat cancer, the side effects associated with them induces the need to search for nontoxic and efficient anticancer agents. Plants being rich in structurally diverse compounds have immense scope in providing lead bioactive molecules. Plant secondary metabolites have been massively searched for their cancer prevention activities in both in vitro and in vivo models. As a consequence of substantial plant-based research, more than 60% commercial anticancer drugs are derived from plant secondary metabolites. Secondary metabolites are organic molecules essential for the survival of plants where they are engaged in performing numerous functions. This chapter is focused on the chemopreventive and anticancer activity of three major classes of secondary metabolites including terpenoids (monoterpenoids,

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J. Kaur

Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India

AUT

S. Mahey

Department of Botany, Giani Kartar Singh Memorial Government College, Tanda Urmar, India

P. Ahluwalia

Department of Pathology, Augusta University, Augusta, GA, USA

R. Joshi

Department of Botany and Environmental Science, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India

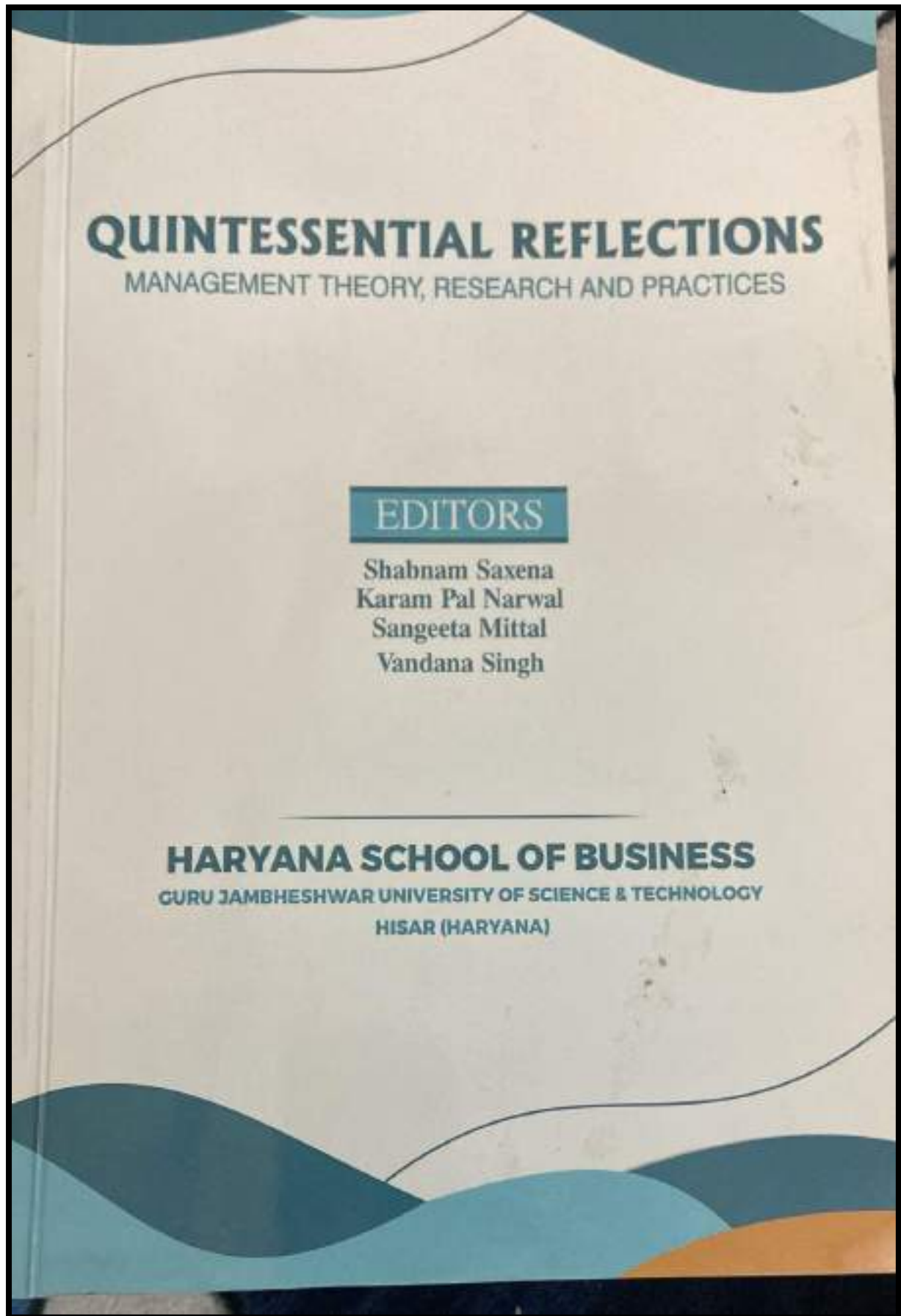
R. Kumar (✉)

Department of Botany, Douba College, Jalandhar, India

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A. K. Sharma, A. Sharma (eds.), *Plant Secondary Metabolites*,

[https://doi.org/10.1007/978-981-16-4779-6\\_4](https://doi.org/10.1007/978-981-16-4779-6_4)



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ISBN 978-93-84871-21-5

**DBH PUBLISHERS & DISTRIBUTORS**

4378/4B, Ansari Road, Dariyaganj

New Delhi-110002

Printed at Hisar Photostate, Hisar

Type setting at Hisar Photostate, Hisar



## Emotional Intelligence and Morale among Employees of NIACL in Punjab and Chandigarh

Shashi Bala\*

*Emotional Intelligence of employees plays a major role in boosting morale of employees and emotionally intelligent employees are in a better position to bring better results on the job. On the other hand employees with high morale feel committed to their employers, loyal to their jobs and productive in their work. The objective of the paper is to analyze the responses of employees regarding their morale in New India Assurance Company Limited and thereby deriving inferences about their emotional intelligence. It has been suggested as to what efforts may be made to keep the morale of the employees in the company high.*

**Keywords:** Insurance, NIACL, morale, emotional intelligence

### INTRODUCTION

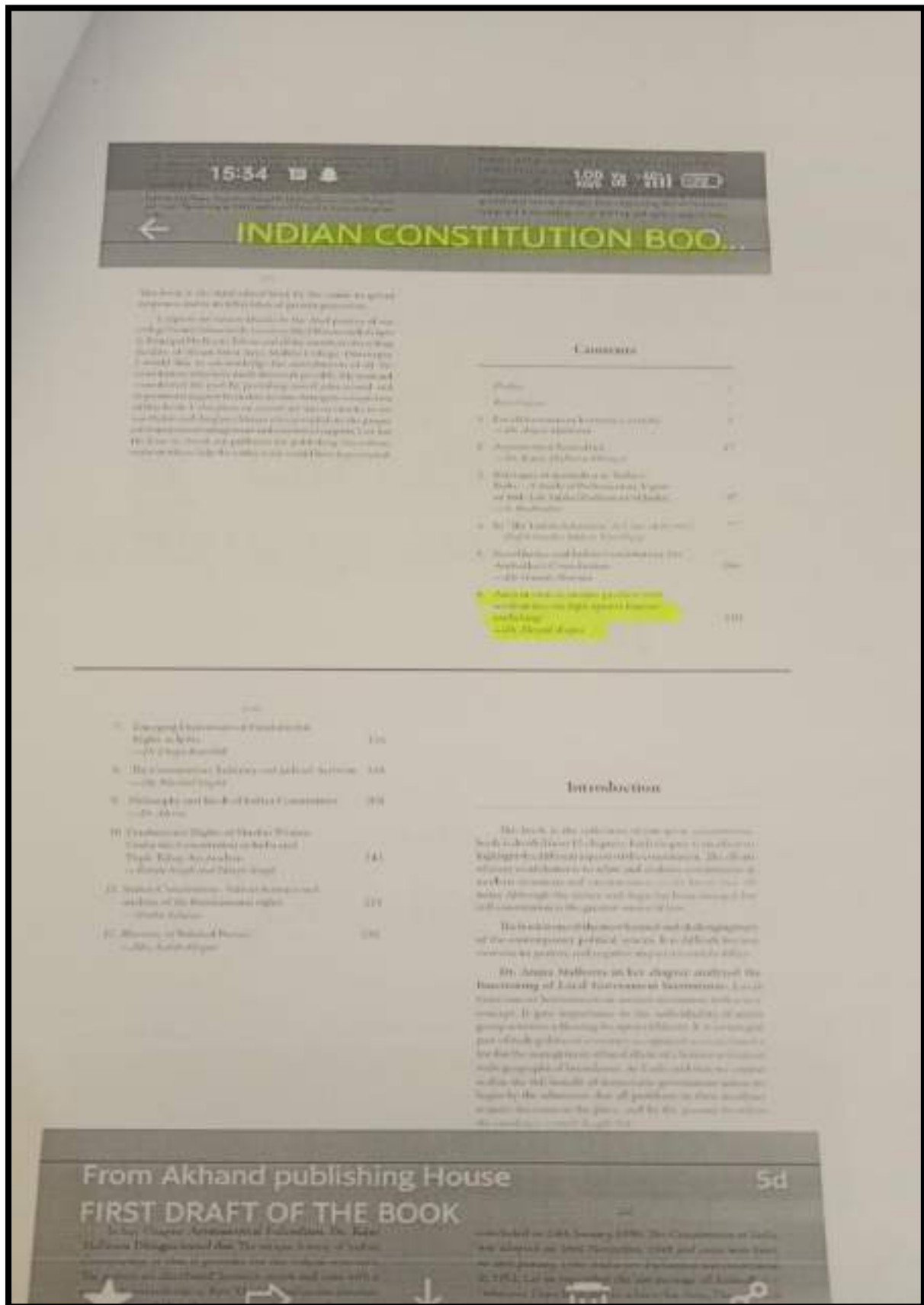
In all human settings success can be achieved if we understand and co-relate with emotions of others. The term "Emotional Intelligence" was coined by Daniel Goleman in 1995. He emphasised the fact that although high IQ level helps in achieving success in various fields but Emotional Intelligence plays a major role in relating well with employees in organisations and achieving goals of the organisation effectively.

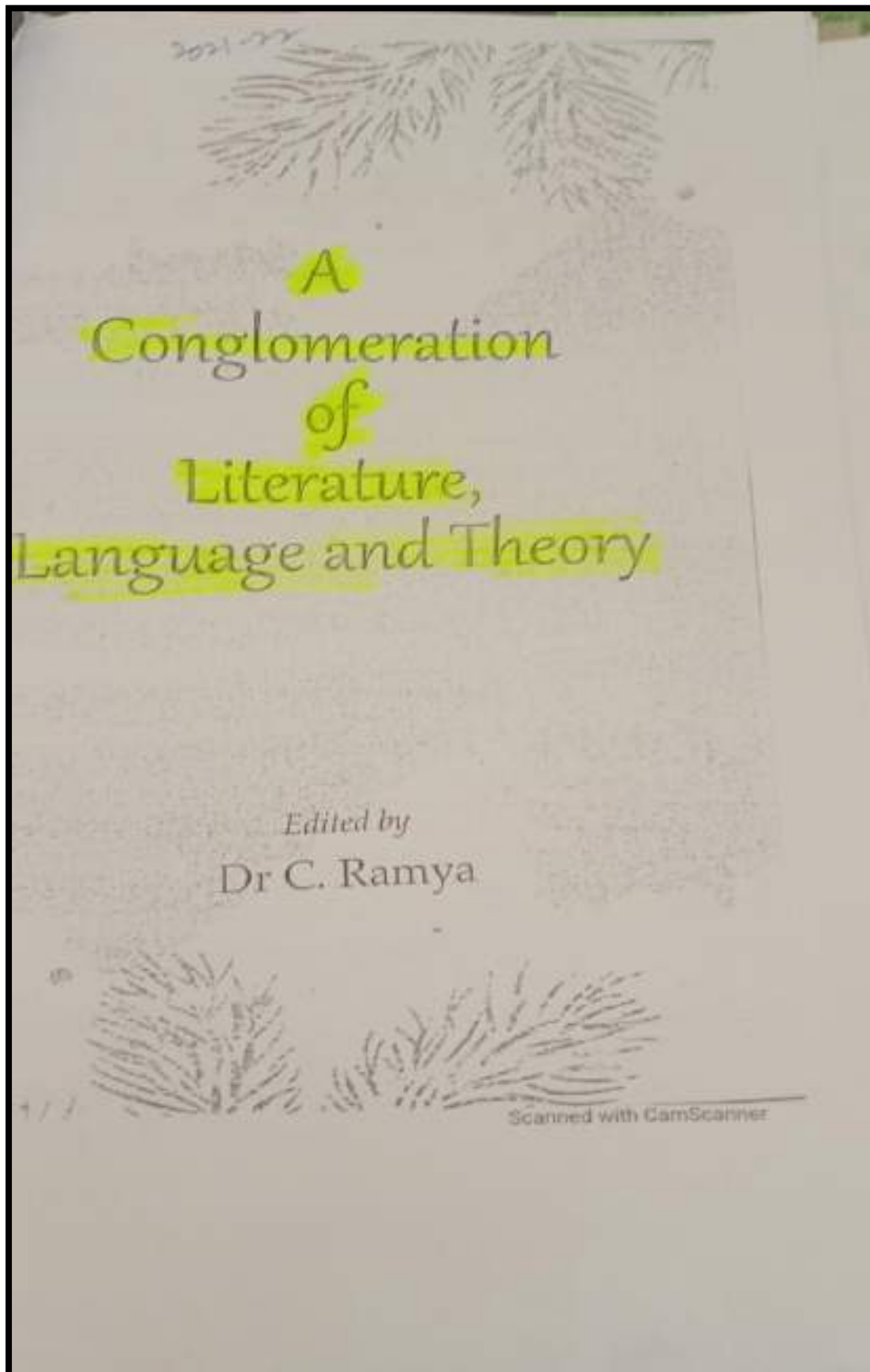
#### Morale

Human Resources are the most vital resource of any organization and every organization tries to manage the feelings, attitudes and sentiments that contribute to general feelings of satisfaction. "It is a state of mind and spirit affecting willingness to work, which in turn affects organizational and individual objectives". Morale is a subjective phenomenon, it has to be expressed in terms of a degree, as high morale or low morale. Morale is said to be high if employees express willingness, enthusiasm and positive attitude towards achievement of organizational goals and vice versa. Morale is both group and individual phenomena. Individual and group morale are interrelated to make optimal use of its Human Resources for the achievement of its goals. Morale reflects the level of enthusiasm and satisfaction among the employees towards their jobs, fellow workers, superiors and job environment for accomplishment of organizational goals. According to Alexander H. Leighton, "morale is the capacity of a group of people to pull together persistently in pursuit of a common purpose".

\*Associate Professor, Department of Commerce, G.K.S.M. Government College Tanda Urmur, Punjab, India. E-mail: shashi\_97@yahoo.com









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Dr C. Ramya

First Published: 2022  
A Conglomeration of Literature, Language and Theory  
ISBN: 978-83-92459-05-4

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*Published by*

**MALIK AND SONS**  
PUBLISHERS & DISTRIBUTORS

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C-293A, Street No. 3, West Karawal Nagar, New Delhi - 110094

Mob.: 9953879692 E-mail: malikandsonspub@gmail.com

Typesetting at: R.S. Print, New Delhi

Printed at: Research Printing Press, New Delhi

Scanned with CamScanner

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## 4

### EXPLORING MOURNING AND MELANCHOLIA IN HERTA MULLER'S *THE PASSPORT* AND *TRAVELLING ON ONE LEG*

DR DEEPAK KAPUR

Mourning and melancholia happen after an individual experiences the loss of a loved one. In mourning this loved one need not be a person. It can be a close-held idea or ideal that has been thwarted by the circumstances or by the government. This close-held idea can be the notion of liberty, the right to pray in public spaces, the bond with a particular community etc. Mourning is considered a normal process that is required if one is to recover from the loss. It is not considered pathology and psychoanalytic intervention is not required in this case.

In melancholia on the other hand, a person develops suicidal tendencies and needs medical intervention in order to lead a normal life. In melancholia the subject is not able to identify the object that has led to loss in his life. If he is made to identify the loss, he is unable to explain to himself as to what is so disturbing and distressing in this loss. He experiences loss of appetite and is not able to digest his food properly. He also finds it difficult to sleep and have a sound sleep. The subject considers himself worthless and starts hating himself. Freud says in "Mourning and Melancholia":

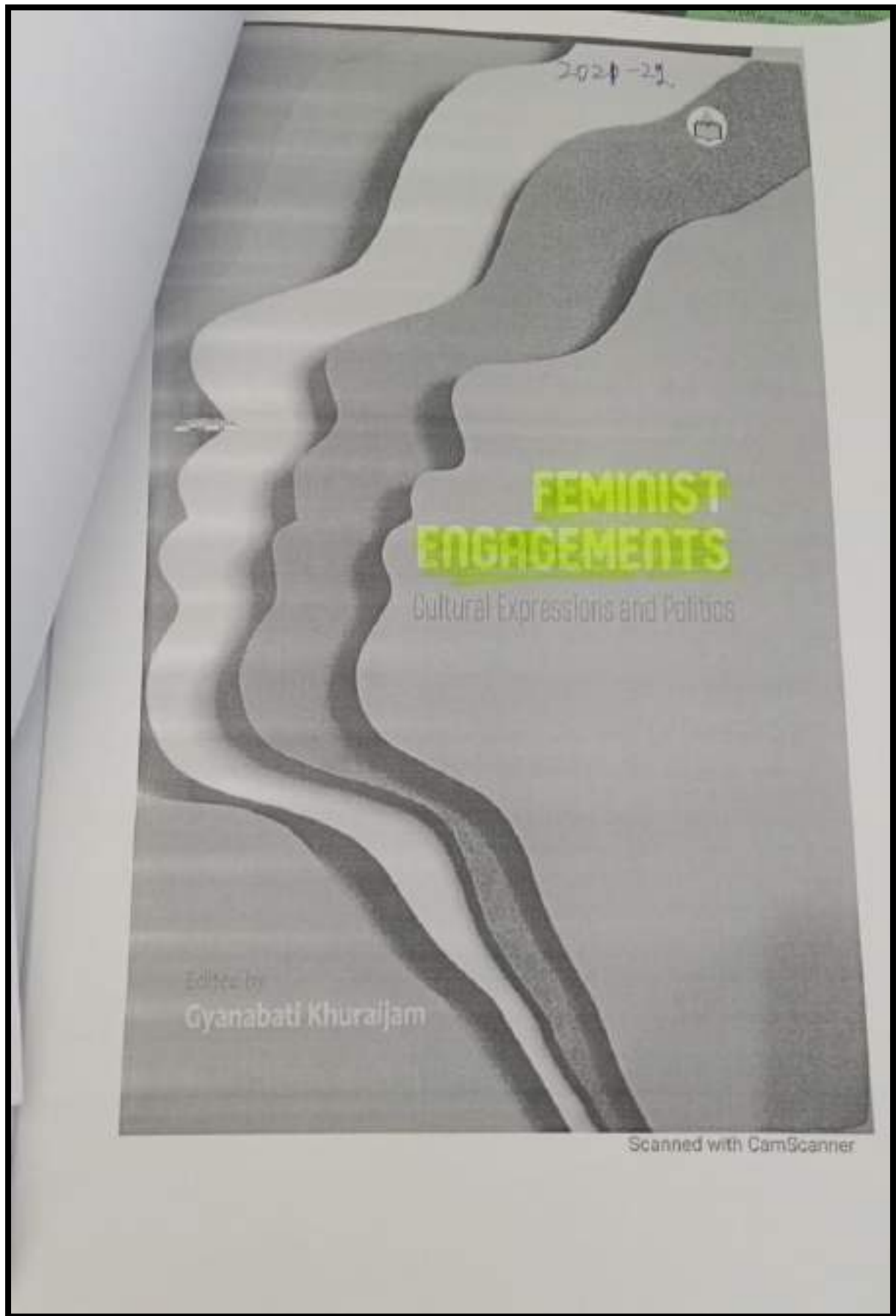
"If the love for the object—a love which cannot be given up though the object itself is given up—takes refuge in narcissistic identification, then the hate comes into operation on this substitutive object, abusing it, debasing it, making it suffer and deriving sadistic satisfaction from its suffering." (251)

But, the subject does not feel shameful in front of others.

26 □ *A Conglomeration of Literature, Language and Theory*

Normally, a person who experiences remorse and guilt feels shy and remorseful in others' presence. But, a person who is experiencing melancholia does the opposite. He wants to expose his condition and wants sympathy from others. He also experiences a loss of self regard. The part of his ego that accuses and criticises him seems to be an outside agency. But, in fact, it is a split-off part of his own ego that criticises the rest of his ego. This split-off ego is called the ego ideal.

This ego ideal keeps a watch over the ego at all times and censors whatever decision the ordinary ego takes. This condition is similar to paranoia. Paranoia is a pathological condition in which





Worldwide Circulation through Authorpress Global Network  
First Published in 2022

by  
Authorpress  
Q-2A Hauz Khas Enclave, New Delhi-110 016 (India)  
Phone: (01) 9818045852  
E-mail: [authorpressgroup@gmail.com](mailto:authorpressgroup@gmail.com)  
Website: [www.authorpressbooks.com](http://www.authorpressbooks.com)

Feminist Engagements: Cultural Expressions and Politics  
ISBN 978-93-5529-767-9

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Printed in India at Thomson Press (India) Limited

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## Female Grit,...r (2)\_edited

### Patriarchy, Female Grit and Women Identity Under Totalitarian Regime in Herta Muller's *The Appointment*

Deepak Kapoor

Ph.D. Research Scholar,  
School of Humanities,  
Lovely Professional University,  
Phagwara, Punjab, India

Dr. Gowher Ahmad Naik

Assistant Professor,  
School of Humanities,  
Department of English  
Lovely Professional University,  
Phagwara, Punjab, India

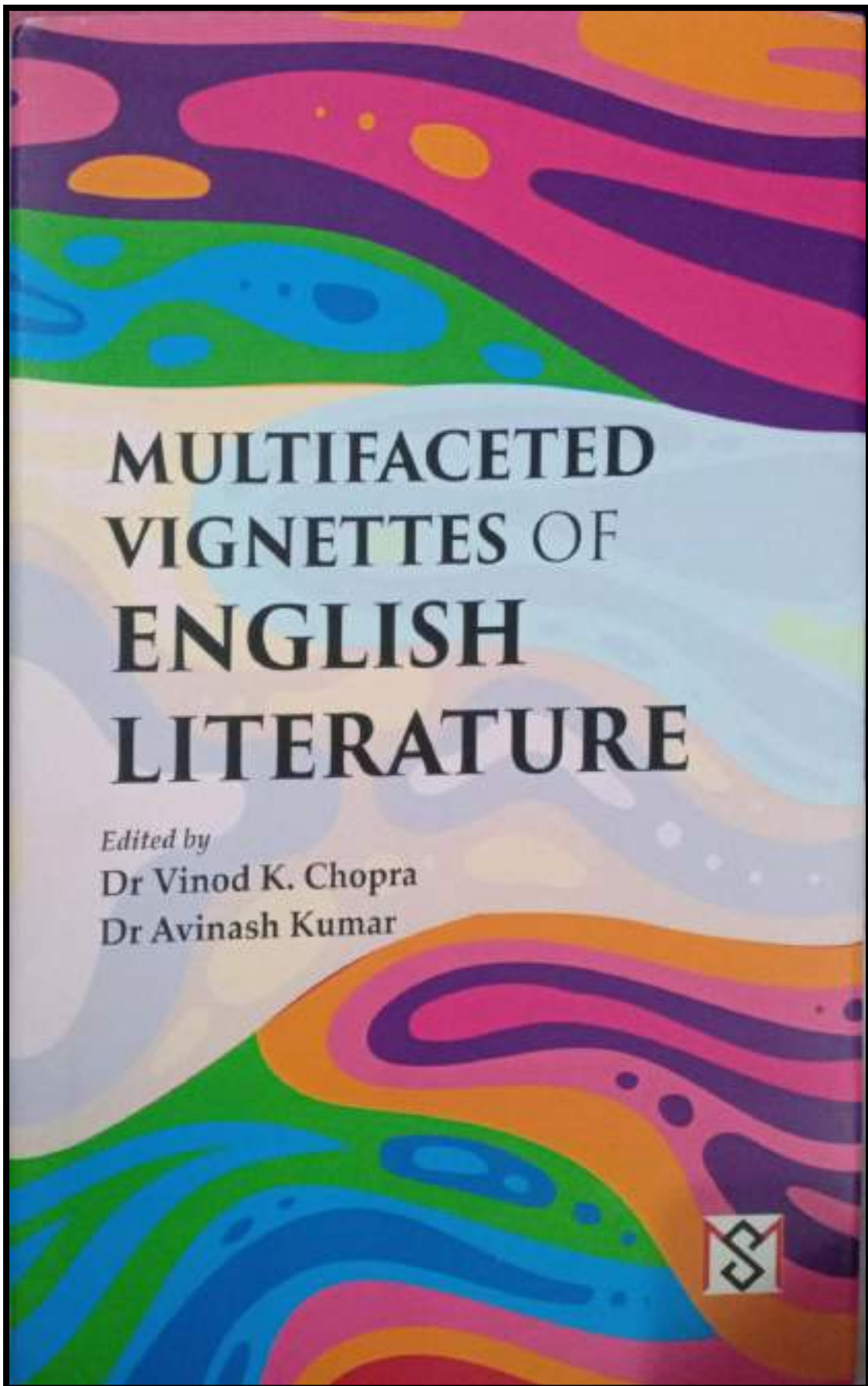
gowher.1988@gmail.com

#### Abstract

This research paper explores the way women have suffered under a totalitarian regime as they suffered from barbarity and violence. *The Appointment* by Herta Muller is a story of female grit, bravery and identity. The female protagonist in this novel tries to make sense and meaning out of her life, which has been battered by the totalitarian Romanian government. She refuses to bow down before the might of the regime and battles her way through the ups and downs in her life. This paper discusses the journey and fate of the life of women under a totalitarian regime.

#### Introduction

The plot of *The Appointment* opens with the protagonist being summoned to appear at the Securitate. She was called on Thursday at 10 a.m. sharp. She was being summoned more frequently and had to appear at 10 a.m. sharp on Tuesday, Saturday, Wednesday and Monday. She always took a tram to reach her destination. The tram did not run on a fixed schedule. While in the Tram, she thought about Major Albu, who was to interrogate her. She was terrified that he might take her down to the cell below his office. At home also, she was terrified, but Paul, her husband, could not judge her terror. She had been listening to the alarm clock since three in the morning, ticking ten sharp, ten sharp, ten sharp. She said, "Ever since my first summons, I have begun to





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Dr Vinod K. Chopra and Dr Avinash Kumar

First Published: 2022  
Multifaceted Vignettes of English Literature  
ISBN: 978-93-92459-03-0

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*Published by*

**MALIK AND SONS**  
**PUBLISHERS & DISTRIBUTORS**

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C-293A, Street No. 3, West Karawal Nagar, New Delhi - 110094  
Mob.: 9953879692 E-mail: malikandsonspub@gmail.com  
Typesetting at: R.S. Print, New Delhi  
Printed at: Research Printing Press, New Delhi

Scanned with CamScanner

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## EXPLORING BROTHERHOOD IN *THE OLD MAN AND THE SEA* ✓

DR DEEPAK KAPUR



In Ernest Hemingway's *Old Man and the Sea*, the Cuban fisherman Santiago is a heroic character who exemplifies courage, determination and perseverance. He gets hold of his prize—the big fish, a blue Marlin—after a gargantuan struggle. A noted critic Orville Prescott comments:

In *The Old Man and the Sea* the Cuban fisherman is also an elementary character; but with a significant difference. He is not only courageous. He is humble and gently proud, aware of beauty and filled with a sense of brotherhood with nature. And he has a loving heart.

Santiago also becomes witness to the 'bit by bit' loss of his fortune at the hands of the sharks that nibble it off. He even manages to kill at least two of the sharks but becomes extremely fatigued in the process. In spite of all this, Santiago is disinclined to believe that defeat has overcome him.

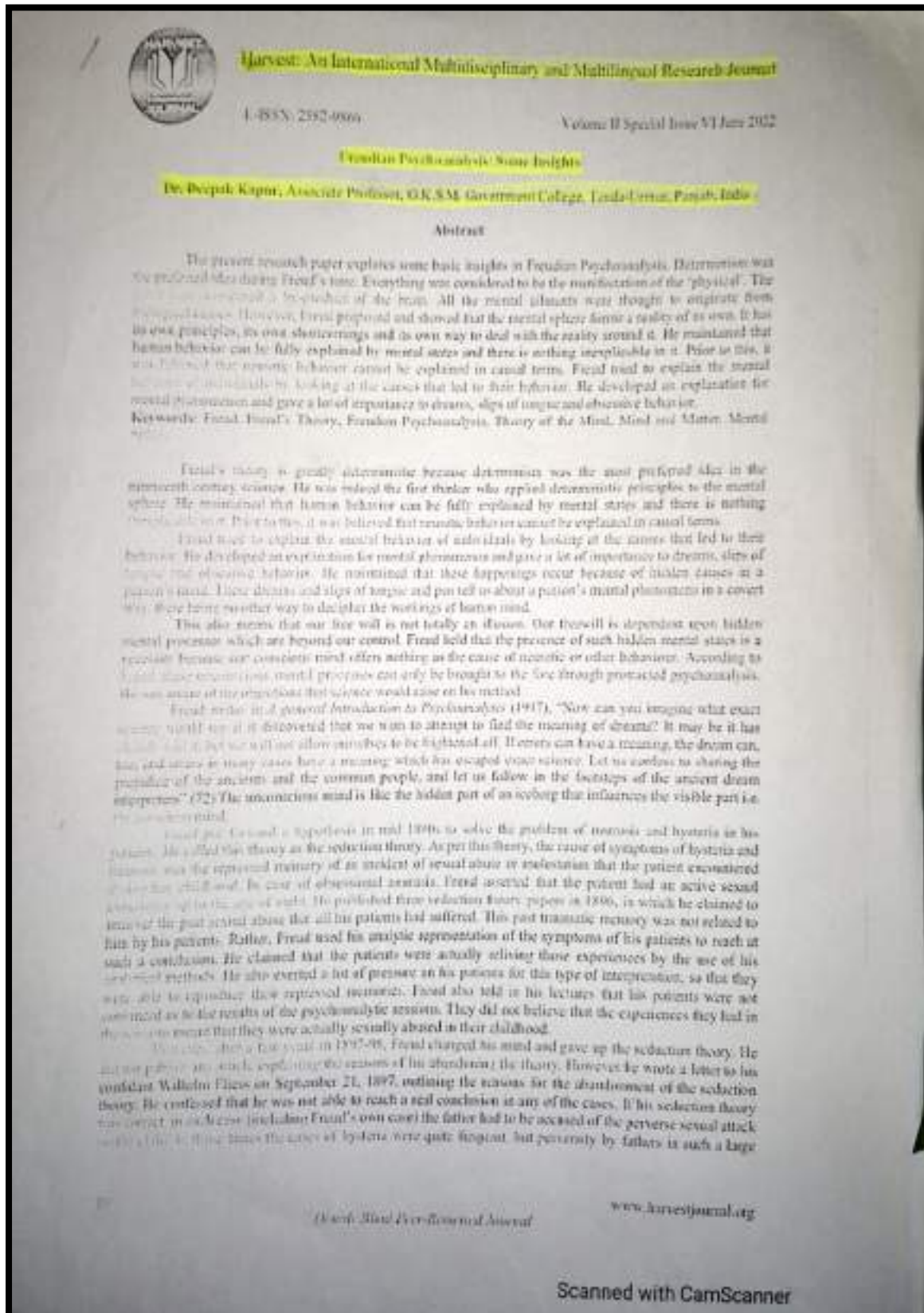
This behaviour of Santiago makes one believe that he is a superhuman, who does not need help from anybody. One tends to think that he is a mighty individual with no relation to society and is someone who is completely untouched by the qualities of brotherhood, sympathy and empathy. He seems to be a social who does not need to befriend anybody and is someone who is capable of wondrous achievements solely by himself.

But, this seemingly obvious interpretation is false. A closer study, in fact, reveals that Hemingway has infused brotherhood in Santiago's character in the novel in a very subtle and interesting way. The novelist affirms that Santiago could not have accomplished this massive task alone. The boy Manolin is a source of help and encouragement to Santiago and is instrumental in the latter's victory. Manolin once says to him that he will persuade his father to fish near Santiago so that when Santiago catches a big fish they can come rushing to his aid.

Similarly, the fellow people of Santiago's town are a source of help as they provide him with the bare necessities required for survival. Santiago is also shown to often think about his 'companions'. Manolin helps him load his skiff and brings different kinds of things for Santiago from locals and in this way an indirect bond of brotherhood is established between the boy, Santiago and the local people. The whole town seems to think that Santiago is unlucky but it's the boy's strong conviction that one day Santiago will do wonders with his fishing skills, "To hell with luck, the boy said. I'll bring the luck with me."

In the beginning of the story, Santiago has just returned from a fishing trip that bears no fruit. His wife has died and he lives and fishes alone. Not a single fish was caught by Santiago for the last 84 days. In this situation his companion Manolin boosts his confidence and arranges food and drink for him. He says, "There are

2022-2023







E-ISSN: 2663-1067  
 P-ISSN: 2663-1075  
<https://www.ijhfss.in>  
 IJHFSS 2023; 5(3): 91-95  
 Received: 08-05-2023  
 Accepted: 16-06-2023

**Rajdeep Singh**  
 Assistant Professor,  
 Department of Agriculture,  
 Rajat Bahara, Hoshiarpur,  
 Punjab, India

**Jasmine**  
 Assistant Professor,  
 Department of Agriculture and  
 Botany, GKSM Government  
 College, Tanda Urmar,  
 Hoshiarpur, Punjab, India

**Dr. Sonia**  
 Assistant Professor,  
 Department of Agriculture and  
 Botany, GKSM Government  
 College, Tanda Urmar,  
 Hoshiarpur, Punjab, India

## To evaluate the effect of different pre-chemical treatments and packing materials on the fruit quality of mosambi (*Citrus limetta*)

Rajdeep Singh, Jasmine and Dr. Sonia

DOI: <https://doi.org/10.33545/26631067.2023.v5.i1b.164>

### Abstract

A study was carried out to evaluate the effect of different pre-chemical treatments and packing materials on the fruit quality of Mosambi (*Citrus limetta*) at the Agricultural laboratory of Sant Baba Bhag Singh University, Jalandhar, Punjab (India) during the year 2020. Completely Randomized Design (CRD) with 3 replications and 10 treatments was constructed for the present study. Fruits were pre-treated in hot water (55 °C) was given for 1 minute. Then, fruits were air dried and packed in packaging films viz. high-density polyethylene (HDPE) and other packaging materials, Low-density polyethylene (LDPE) with or without perforations) and sealed with an electronic sealing system after being dehumidified. Additionally, chemically viz. 2,4-dichlorophenoxyacetic acid (2,4-D) and gibberellic acid (GA3), prepared fruits were also kept at (ambient) room temperature. For analyzing, fruit samples were collected for various quality parameters after 7 days of interval of storage (0, 7<sup>th</sup>, 14<sup>th</sup>, and 21<sup>st</sup>). The results revealed that among the different treatments T4 (HDPE perforated) treatment was superior for characters like phenol content, TSS, total titrable acid, total sugars, reducing sugars and non-reducing sugars, as compared to other treatments studied. On the other hand, fruit pH and ascorbic acid was observed better in T6 and T3 respectively. It was concluded that the use of HDPE perforated packaging material might be effective and economical treatment for improving the quality of Mosambi fruit.

**Keywords:** 2,4-D, HDPE and CRD

### 1. Introduction

Mosambi (*Citrus limetta*) belongs to Rutaceae family which is a self-pollinated fruit crop and can be grown successfully in both tropical and sub-tropical areas. *Citrus limetta* is the result of the cross between citron (*Citrus medica*) and bitter orange (*Citrus × aurantium*)<sup>[1]</sup>. Citrus fruits are low in salt, fat, and cholesterol but high in minerals (potassium, calcium, phosphorus, magnesium, copper), vitamins (C, B1, B2, B3, B5, B6, B9), fiber, and phytochemicals (carotenoids, phenols, including flavonoids, coumarins, limonoids, alkaloids, and essential oils) all of which have been shown to reduce inflammation when taken alone or in combination with nervous system disorders, heart disease, and even cancer<sup>[2]</sup>. Citrus is one some of the widely grown fruit crops within the international with annual worldwide production of 102 MT approximately and in India region under citrus cultivation is 973 thousand hectares with annual production of 122 lakh MT during 2018-19.<sup>[3]</sup> In harvested fruits, loss in water vapour, results in shrinkage with peel, turgidity reduction and lowered resistance to gas diffusion, results in negative consequences with the taste and flavour<sup>[4]</sup>. To reduce post-harvest losses and enhancing the keeping quality of citrus fruits, different post-harvest treatments play a vital role. Therefore, this current work was evaluated the effect of different pre-chemical treatments and packing materials on the fruit quality of Mosambi.

### Method and Material

The experiment was conducted in Completely Randomized Design with three replications and 10 treatments for analyzing the effect of different pre-chemical treatments and packaging material on qualitative traits of Mosambi in the laboratory of Punjab agro. Juice lab, Hoshiarpur FSSC LIC NO.10014063000386 and at Lal path lab, Nandachor in December, 2020.

**Corresponding Author:**  
**Rajdeep Singh**  
 Assistant Professor,  
 Department of Agriculture,  
 Rajat Bahara, Hoshiarpur,  
 Punjab, India



E-ISSN: 2663-1067  
 P-ISSN: 2663-1073  
<http://www.ijhfjournal.com>  
 IJHFS-2023, 5(1): 87-90  
 Received: 05-05-2023  
 Accepted: 11-06-2023

**Rajdeep Singh**  
 Assistant Professor,  
 Department of Agriculture,  
 Rayat Bahara, Hoshiarpur,  
 Punjab, India

**Jasmine**  
 Assistant Professor,  
 Department of Agriculture and  
 Botany, GKSM Government  
 College, Tanda Urmar,  
 Hoshiarpur, Punjab, India

**Dr. Sonia**  
 Assistant Professor,  
 Department of Agriculture and  
 Botany, GKSM Government  
 College, Tanda Urmar,  
 Hoshiarpur, Punjab, India

## To study the effect of different chemicals and packing materials on the physiological and organoleptic characteristics of Mosambi (*Citrus limetta*) fruit

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**Keywords:** LDPE, HDPE and CRD

### Introduction

*Citrus limetta*, is considered to be a variety of Sweet orange and citrus varieties, belongs to the Rutaceae family and is often referred to Mosambi and Sweet limetta. *Citrus limetta* can be grown locally in tropical or subtropical climates, and fruit production begins to appear on plants that are 5 to 7 years old. It starts to evolve and produces a good yield from 10 to 18 years. Global production of sweet oranges in 2014 was 70.9 million tons, 24% of the total global production was produced by Brazil followed by China and India <sup>[1]</sup>. During 2016-2017, overall area under cultivation of Mosambi was 209.19 / ha with fruit production of 3497.35 MT and productivity 16.7 MT / ha <sup>[2]</sup>. The role of packaging to increase the shelf life of fruit is very crucial in post-harvest operations of horticultural fruit crops. Each polymer-sealed fruit is better than a few fruits stored in a plastic bag because sealing each fruit allows for a more efficient environment against respiratory biomass and even each sealed packaging helps in preventing the fruit from decaying infections that are considered secondary agents <sup>[3]</sup>. In view of the above fact, the present study was carried out to investigate the effect of different chemicals and packing materials on physiological and organoleptic characteristics of Mosambi fruit.

### Method and Material

The experiment was laid out in Completely Randomized Design in which 10 treatments were implemented with 3 replications after 7 days of interval (0, 7<sup>th</sup>, 14<sup>th</sup>, and 21<sup>st</sup>) for identification of better effect of different chemicals and packaging material on physiological and organoleptic traits of Mosambi in December, 2020.

**Corresponding Author**  
**Rajdeep Singh**  
 Assistant Professor,  
 Department of Agriculture,  
 Rayat Bahara, Hoshiarpur,  
 Punjab, India



E-ISSN: 2663-1067  
 P-ISSN: 2663-1074  
<https://www.ijhfss.in>  
 IJHFSS 2023; 5(3): 91-95  
 Received: 08-05-2023  
 Accepted: 16-06-2023

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**Jasmine**  
 Assistant Professor,  
 Department of Agriculture and  
 Botany, GKSM Government  
 College, Tanda Urmar,  
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**Rajdeep Singh**  
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E-ISSN: 2663-1067  
 P-ISSN: 2663-1073  
<http://www.ijhfjournal.com>  
 IJHFS-2023, 5(1): 87-90  
 Received: 05-05-2023  
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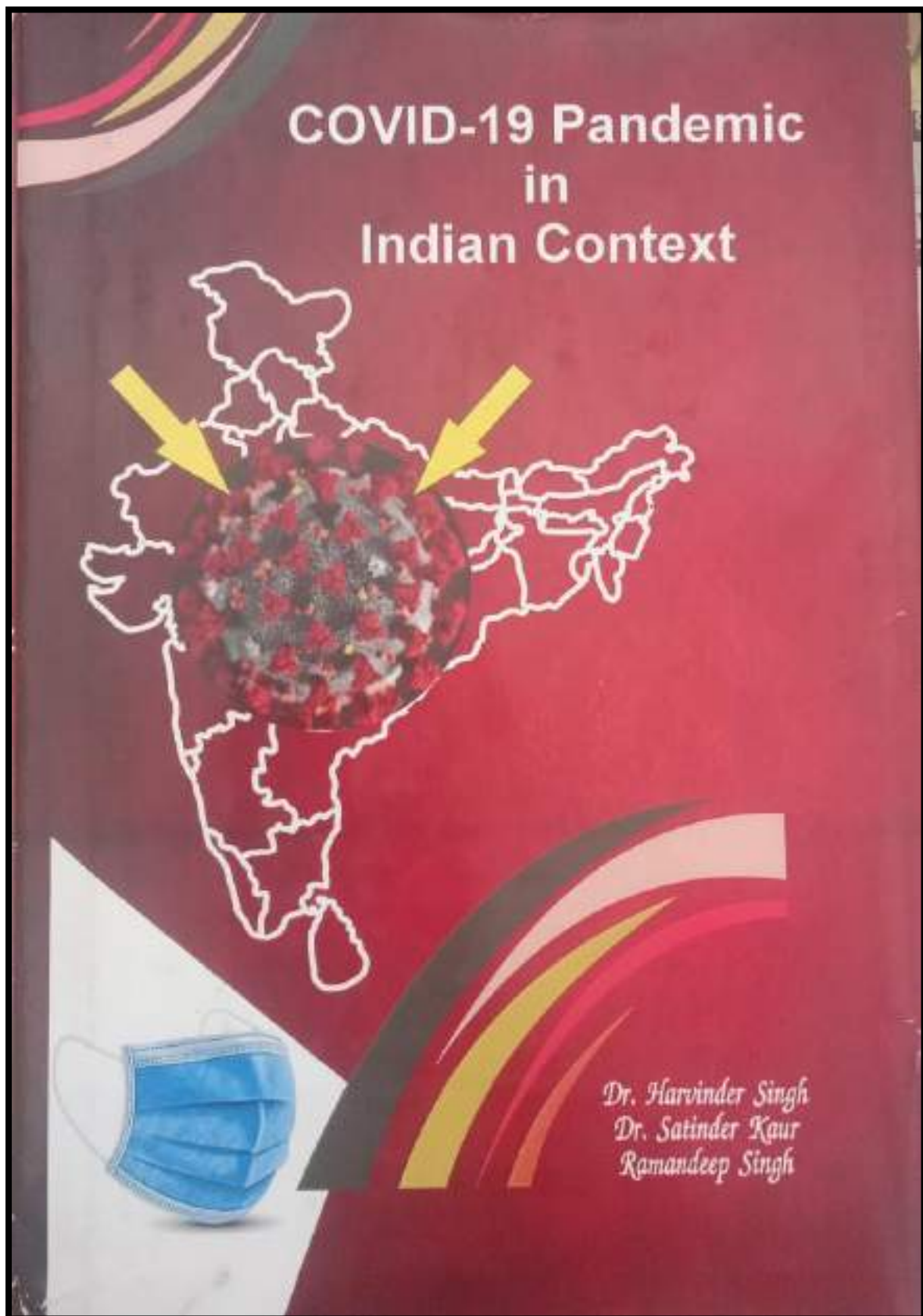
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### Method and Material

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**Corresponding Author**  
**Rajdeep Singh**  
 Assistant Professor,  
 Department of Agriculture,  
 Rayat Bahara, Hoshiarpur,  
 Punjab, India





COVID-19 Pandemic in Indian Context

Publisher:  
C-Writewell Publications  
Jalandhar

ISBN : 978-93-85583-86-5

Copy Right © *Editors*

First Edition : 2020

Price : 250/-

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COVID-19 Pandemic in Indian Context by  
Dr. Harvinder Singh, Dr. Satinder Kaur, Ramandeep Singh

(iv)

COVID-19 Pandemic in Indian Context

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COVID-19 Pandemic in Indian Context

## THE CONCEPT OF GREEN HOSPITAL DURING THE ERA OF COVID-19 IN INDIA

*Dagsh Sohal*

Assistant Prof.

Dept. of Political Science

G. K. S. M. Govt. College Tanda Urmur

### ABSTRACT

Green Hospitals have always been the source sustainable health. Through green hospitals we can achieve the dream sustainable development for it. Green Hospitals have been recognized as a important measure of contagion all around humanity, therefore helping to imperil public vigor on an unpremeditated course Even though the foremost task of the Green hospital is to encourage human health, The idea of "Green Hospital", also addresses environmental challenge and to meet community need of healthiness , has emerge newly as a try to get better health, in procession with its key mission. green hospitals can become indicators of sustainable development. it is important that administrators or decision makers make viable plans for create green hospitals to achieve goal sustainable development in the area of health during the Era of COVID-19. The main objectives of this paper is to, how we can achieve

(164)