



**HANSRAJ COLLEGE**

**University Of Delhi**

**NAAC Grade A++ with CGPA 3.71**

**NIRF Rank # 12 (Amongst Colleges)**

**(2023-2024)**



**Event Name:-** Plant based mosquito repellants as safe and effective and safe alternative.

**Organized By:-** Department of chemistry, Hansraj college in collaboration with IIC

**Date:-**2<sup>nd</sup> November 2023

**Duration:-** One Day workshop

**Convener:-** Dr. Aparna Bansal,

**Co-Convener :** Dr. Himanshu

**Coordinator(s):-** Dr. Shailendra Kumar Singh

**Number of student Participants:-** 51

**Number of Faculty Participants:-** 8

**Number of External Participants (If Any):-** NIL

**Expenditure Amount (If Any):-** 3000/-

**Mode of Session Delivery (Online/Offline/Hybrid):-**Offline

**Objective of Program:-**

Dengue, chikungunya, are the diseases which spread amongst the people by mosquitoes. Thus, national and international health protection agencies continue to strongly advise developing methods to prevent mosquito contact with humans. The first line of protection against these strategies is the use of mosquito repellents providing a barrier between humans and these disease-carrying insects. However, most of the mosquito repellants consists of harmful chemicals such as DEET, Picaridin, and Permethrin, are widely used. However, theses chemical mosquito repellents, while effective in deterring mosquitoes, but have some disadvantages such as skin irritation and allergic reactions, toxic, unpeasant odor or feel. Thus there is an urgent need of development of protocols which are safe, effective,

inexpensive etc. Natural alternatives like citronella, lemon eucalyptus oil, and lavender oil have gained popularity due to their ecofriendly, safer behaviour. This workshop is aiming at the formulations of natural mosquito repellants that are safe and effective alternative.

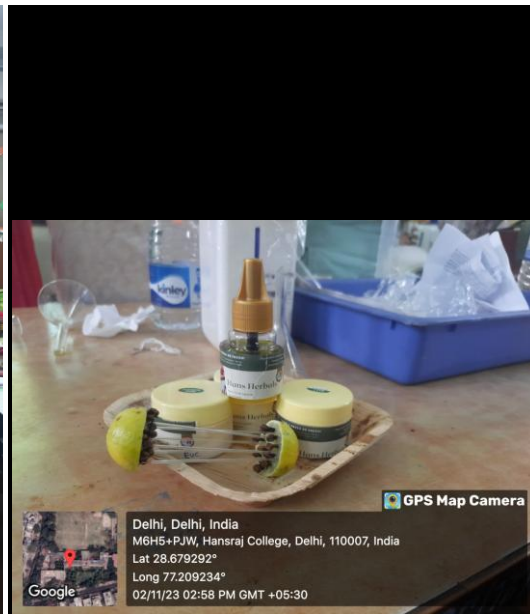
**Benefit in Terms of Learning /Skill/Knowledge Obtained:-**

To make learn students about the formulation of natural mosquito repellants products without harmful chemicals, which can help them to get success in setting up a small scale industry and make it as the permanent source of income.

**Video Link of program (If any):-**

If you have video then share. We will upload it on IIC YouTube channel

**Photos:-**



## **Report:-**

Dengue, chikungunya, are the diseases which spread amongst the people by mosquitoes. Thus, national and international health protection agencies continue to strongly advise developing methods to prevent mosquito contact with humans. The first line of protection against these strategies is the use of mosquito repellents providing a barrier between humans and these disease-carrying insects. However, most of the mosquito repellants consists of harmful chemicals such as DEET, Picaridin, and Permethrin, are widely used. However, these chemical mosquito repellents, while effective in deterring mosquitoes, but have some disadvantages such as skin irritation and allergic reactions, toxic, unpleasant odor or feel. Thus there is an urgent need of development of protocols which are safe, effective, inexpensive etc. Natural alternatives like citronella, lemon eucalyptus oil, and lavender oil have gained popularity due to their ecofriendly, safer behaviour. To get an exposure about what the best of the brains think about this very dynamic issue a workshop on "Plant based mosquito repellants as safe and effective and safe alternative" was organized by Department of Chemistry, Hansraj College, University of Delhi, under the aegis of Institutions Innovation Centre, Hansraj College, University of Delhi. during 2 November 2023, at 1:00 P.M. onwards with 52 students as participants and 8 faculty members.

The workshop began with address of Dr. Ambika, IIC Convener for introducing IIC to the forum, followed by Dr. Aparna Bansal, Associate Professor Department of Chemistry, workshop-convener to the forum for the opening remarks. After addressing the forum Dr. Shailendra Kumar Singh coordinator, motivated the participants with his precious words and introduced the first speaker of the Workshop, Dr. Pradeep Prartap Singh, Associate Professor, Department of Chemistry, Swami Shraddhanand College, University of Delhi. He talked about Plant based mosquito repellants as safe and effective alternatives. He emphasized on the mechanism of spread of diseases. He gave live demonstration for the preparation of a variety of mosquito repellants formulations like mosquito repellent cream, candles, mosquito repellent spray etc. The session ended by answering queries of participants and Vote of thanks. Dr. Himanshu Co-Convener of the workshop introduced the second speaker Dr. Saraswati Kanodia Associate Professor, Department of Chemistry, Swami Shraddhanand College University of Delhi. She discussed about the formulations of natural mosquito repellants. She demonstrated various methods for the preparation of natural mosquito repellent liquids. Session ended with queries of participants and vote of thanks. They showed us how these products can be made easily with very less ingredients. Also how cheap they really are but brands fool us by charging high prices. The workshop came to an end after the valedictory remarks by Dr. Aparna Bansal, Workshop-Convener, She extended the vote of thanks to resource persons, IIC, organizing team and all the participants of the workshop.

# Attendance Sheet

S.No.	Name	Course	Year	Roll no.	Signature
1.	Ekta Pandey	B.Sc (H) Chemistry	II <sup>nd</sup>	8279	<u>Ekta</u>
2.	Lucky Panwar	B.Sc (H) Chemistry	II <sup>nd</sup>	8297	<u>Lucky</u>
3.	Anuj Kumar Maurya	B.Sc (H) Chemistry	III <sup>rd</sup>	3367	<u>Anuj</u>
4.	NAZIM HUSSAIN	BSc(H) Chemistry	III <sup>rd</sup>	3253	<u>Nazim</u>
5.	Ashish Kumar Yadav	B.Sc (H) Chemistry	I <sup>st</sup>	13317	<u>Ashish</u>
6.	Asyan Dixit	BSC (H) chem	II <sup>nd</sup>	8305	<u>Asyan</u>
7.	Shobhit Goswami	BSC (H) chem	II <sup>nd</sup>	8269	<u>Shobhit</u>
8.	Rituparna Nait	BSc (H) Geology	I <sup>st</sup>	13711	<u>Rituparna</u>
9.	Aryam Yadav	BSc (H) Geology	I <sup>st</sup>	13658	<u>Aryam</u>
10.	Naman Gupta	BSc(H) Geology	I <sup>st</sup>	13668	<u>Naman Gupta</u>
11.	Aanchal Chaudhary	BSc(H) Geology	I <sup>st</sup>	13665	<u>Aanchal</u>
12.	Anshul	BSc (H) Maths	I <sup>st</sup>	13761	<u>Anshul</u>
13.	Nisha	BSc (H) Maths	I <sup>st</sup>	13814	<u>Nisha</u>
14.	Priyanshu	BSc (H) Geology	I <sup>st</sup>	13678	<u>Priyanshu</u>
15.	Armaan Raj	BSc (H) Geology	I <sup>st</sup>	13716	<u>Armaan Raj</u>
16.	Gaurav Pal	BSc (H) Botany	I <sup>st</sup>	13103	<u>Gaurav</u>
17.	KUMARI HARSHITA	BSc (H) Geology	I <sup>st</sup>	13698	<u>Harshita</u>
18.	Suramya Lalit	BSc (H) Zoology	I <sup>st</sup>	14090	<u>Suramya</u>
19.	Mouli Singh	BSc (H) Zoology	I <sup>st</sup>	14086	<u>Mouli</u>
20.	Shriyashi Dalakoti	BSc (H) Zoology	I	14109	<u>Shriyashi</u>
21.	Astha Sharma	BSC (H) Zoology	I <sup>st</sup>	14132	<u>Astha</u>
22.	Shriparna Dasgupta	BSC (H) Zoology	I <sup>st</sup>	14088	<u>Shriparna</u>
23.	Raunak Sharma	B.Sc (H) Zoology	I <sup>st</sup>	14101	<u>Raunak</u>
24.	Nikunj	B.Sc (H) Zoology	I <sup>st</sup>	14075	<u>Nikunj</u>
25.	Adarsh Roy	"	"	14095	<u>Adarsh Roy</u>
26.	Starzin Namkha	BSc (H) Zoology	I <sup>st</sup>	14070	<u>Starzin</u>
27.	Ahmal Jais	BSC (H) Zoology	I <sup>st</sup>	14085	<u>Ahmal</u>



S.No.	Name	Course	Year	Roll no.	Signature
28	Pranshu Pragna	B.Sc. (H) zoology	1st year	14105	<u>Pranshu Pragna</u>
29	Jesu choudhary	B.Sc (H) zoology	1 <sup>st</sup> year	<del>14110</del> 14111	<u>Jesu</u>
30	Bindu Sauri	B.Sc (H) Zoology	1 <sup>st</sup> year	14115	<u>Bindu</u>
31	Vausha Sharma	B.Sc (H) Chemistry	3 <sup>rd</sup> year	3310	<u>Vausha</u>
32	Riya Panwar	B.Sc (H) Chemistry	3 <sup>rd</sup> year	3301	<u>Riya Panwar</u>
33	Arijali	B.Sc (H) chemistry	3 <sup>rd</sup> year	3265	<u>Arijali</u>
34	Ritik	B.Sc (H) Chemistry	2 <sup>nd</sup> year	8300	<u>Ritik</u>
35	Anamika Saini	"	"	8283	<u>Anamika</u>
36	Lipsa	"	3 <sup>rd</sup> Year	3364	<u>Lipsa</u>
37	Nikhil	"	"	3359	<u>Nikhil</u>
38	Sachendraj	"	"	3351	<u>Sachendraj</u>
39	Surbhman	"	"	3343	<u>Surbhman</u>
40	Gaur Jain	"	2 <sup>nd</sup> Year	8341	<u>Gaur Jain</u>
41	Prateek Chausasia	"	2 <sup>nd</sup> Year	8293	<u>Prateek</u>
42	Pankaj Singh	"	2 <sup>nd</sup> year	8282	<u>Pankaj</u>
43	Oshika Gautam	"	3 <sup>rd</sup> yr	3293	<u>Oshika</u>
44	Shetal Jadam	"	3 <sup>rd</sup> yr	3316	<u>Shetal</u>
45	Lisa Kai	B.Sc (H) Geology	1 <sup>st</sup> Year	13702	<u>Lisa Kai</u>
46	Asinampangkam	BSC Zoology (H)	1 <sup>st</sup> year	14087	<u>Asinampangkam</u>
47	Kushi Tamwar	B.Sc Physical Science (CS)	1 <sup>st</sup> year	14464	<u>Kushi Tamwar</u>
48	Sonika Rani	B.Sc Zoology (Hons)	1 <sup>st</sup> yr	14065	<u>Sonika</u>
49	Tushar	B.Sc (H) chemisth	3 <sup>rd</sup> year	3323	<u>Tushar</u>
50	Rashi	"	"	3353	<u>Rashi</u>
51	Saurabh	B.Sc (H) Chem	3 <sup>rd</sup> year	3278	<u>Saurabh</u>



# HANSRAJ COLLEGE

(NAAC A++ CGPA 3.71)

**University of Delhi**

Mahatma Hansraj Marg, Malka Ganj, Delhi-110007

<http://www.hansrajcollege.ac.in>



## Department of Chemistry, Hansraj College

in collaboration with

## Institution's Innovation Council (IIC)

is organising

### One Day Workshop

### Plant Based Mosquito Repellents as Effective and Safe Alternative

2<sup>nd</sup> November 2023, 1:00 P.M. Onwards



### Resource Person

Dr. Pradeep Pratap Singh, Associate Professor, Department of Chemistry, Swami Shraddhanand College (DU)

Dr. Saraswati Kanodia, Associate Professor, Department of Chemistry, Swami Shraddhanand College (DU)

Dr. Ambika  
Convenor,  
IIC-HRC,DU

Dr. Aparna Bansal  
Convenor

Dr. Himanshu  
Co-Convenor

Dr. Shailendra Kumar Singh  
Coordinator

Ms. Alka Kacker  
Vice-President  
IIC-HRC, DU

Prof. (Dr.) Rama  
Principal, President  
IIC-HRC, DU