

GONDIA EDUCATION SOCIETY'S



**S. N. Mor College of Arts and Commerce and Smt.
G.D. Saraf Science College, Tumsar-441 912 District
Bhandara (M.S.)**

Department of Botany

**REPORT ON "Survey On Green Coverage Per House Of The Village
Hingana ,Tah: Tumsar "**

Academic Session:- 2022-23

Notice

All the students of B.Sc. Semester VI of Botany Department are hereby informed that Botany department has organized a Survey on Green Coverage per House of the Village Hingana with intension to know that the how many houses in the village Hingana have plant or green cover. The survey is organized on 15.04.2023 at 9.00am onward at Hingana village. In this connection you all are requested to join the survey as it is a part of your curriculum.

Date: 11.04.2023

(Dr. K.N. Sathawane)
Head Department of Botany

Sathawane
B.Sc. Sem-VI
11/04/23

6/c



GONDIA EDUCATION SOCIETY'S
SETH NARSINGDAS MOR COLLEGE OF ARTS, COMMERCE
& SMT. GODAVARIDEVI SARAF SCIENCE COLLEGE,
TUMSAR. 441 912. (M.S.) DISTT. : BHANDARA.

Tel. Off. (07183) 233300. Fax (07183) 233301

RES. (07183) 233301

E-Mail - principalsnmorcollege@Rediffmail.com.

Ref. No. _____

Date: 15/04/2023

To,
The Hon'ble Sarpanch/Gram Secretary
Hingna Grampanchayat
Hingna, Tahasil Tumsar Dist. Bhandara

Sub : Request for the grant permission to our college B.Sc. III year students to carry out survey on the Green Coverage of your village.

R/Sir,

I hereby informs you that our college Botany department under the guidance of Dr. K. N. Sathawane, is decided to carry out survey on the Green Coverage of your village as part of their curriculum. Hence, I request you to allow our B. Sc. Final year student to take survey on the above said subject.

Thanking you,



Copy of subject
15/4/2023


Principal

Principal
Seth Narsingdas Mor Arts, Commerce &
Smt. Godavaridevi Saraf Science College
Tumsar

Certificate

This is to certify that 46 (forty six) students of B. Sc. VI semester of Botany Department of S. N. Mor College of Art & Commerce & Smt. G. D. Saraf Science college, Tumsar, District Bhandara, Maharashtra, India, have carried out Survey on Green Coverage per House of the Village Hingana of Tahasil Tumsar, District Bhandara on 15th April, 2023 under the guidance of Dr. K. N. Sathawane and Dr. J.V. Gadpayale.

18/7/23
Dr. J.V. Gadpayale



Date: 18.07.2023

List of the students participated in the Survey on Green coverage

Page No. _____

Date 15/04/23

- 1) Trupti Zanakdev pandhi Trupti
- 2) Swati Sukhdev pandhi Swati
- 3) Ankita Kishor Tukde Ankita
- 4) Divya Haridas Chawale Divya
- 5) Shreyashi Dnyaneshwar Warkude Shreyashi
- 6) Monika Laxman Dhumankhede Monika
- 7) Akshay Vijay Tidke Akshay
- 8) Rashmi Vishanukumar Chaudhari Rashmi
- 9) Pina Ambrishbabu Srivastav Pina
- 10) Pina Alensao pandhi Pina
- 11) Muskan Yogesh Shukla Muskan
- 12) Dipika Ishwar Shendoe Dipika
- 13) Pina Ravindra Shembre Pina
- 14) Kajal Govinda Patil Kajal
- 15) Kavishma Govinda Patil Kavishma
- 16) Dileshwar Pushikumar Hatwar Dileshwar
- 17) Rachit Omprakash Kshirsagar Rachit
- 18) Anant Hansal Wasnik Anant
- 19) Shikha Rishikesh Tichkule Shikha
- 20) D. Disha Adnyani Hiwale Disha
- 21) Nikita Chaital Bopche Nikita
- 22) Punam Parmanand Bankar Punam
- 23) Ankita Rajesh Ikhari Ankita
- 24) Anant Hansal Washnie Anant
- 25) Sanika Satchidanand Bawankar Sanika
- 26) Gauri Ramji Chaudhari Gauri
- 27) Rukminee Prakash Rahangdale Rukminee
- 28) Mayuri Bheendra Bhongade Mayuri
- 29) Payal Prakash Bisne Payal
- 30)

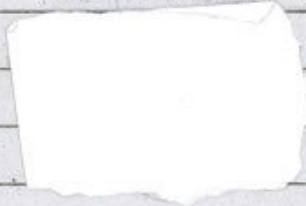
List of Survey
Date 15/04/23

- 30) Pranali Yashwant Bodekarik Pranali
- 31) Divya Bhumeswar Agre
- 32) Pallavi Dharmaraj Mulkare Pranali
- 33) Anjali Saranju Athikar Anjali
- 34) Hamshat Raju Ninave
- 35) Prachi Riup Bundebarik M. Prachi
- 36) Bhagyashri Harichand Birsane Birsane
- 37) Nikita Ganjal Parabhi Nikita
- 38) Neha Bhumeswar Parabhi Parabhi
- 39) Bhumeshwari Arvind Ambale
- 40) Neha Animesh Sharmar N. Sharmar
- 41) Raghavai K. Shende RK/De
- 42) Vamshikavi A. Selokar Selokar
- 43) Payal P. Agashe Agashe
- 44) Pranali M. Parabhi P.M. Parabhi
- 45) Khushi V. Shinde K.V. Shinde
- 46) Kaitani N. Ukey Nikita

(Signature)

Date - 15.04.2023

(Dr. K. N. Sahasrabudhe)



S.N. Mor college of Arts and Commerce and Smt. G.D. Saraf Science college Tumsar-441 912 Dist: Bhandara

DEPARTMENT OF BOTANY

Survey on Green Coverage per house of the village Hingna (Tah: Tumsar)

Name of student: Touphi Z. Pardhi

Signature T. Pardhi

Date of Survey: 15/04/2023

Sr. No.	Name of House Holder	Ward/ Nagar	Numbers of plants growing in a house	Number of members in a family			Sources of water for daily use			Signature of house holder / family member	Name & No. of the plants provided for plantation
				Male	Female	Total	Well	Bore well	Tap		
1.	Jayendra Tembhare	3	7	3	6	9	✓	-	-	A.J. Tembhare	
2.	Jagat Tembhare	3	8	2	1	3	✓			A. J. Tembhare	
3.	Tekchand Thakre	3	5	1	2	3	✓	-	-	Touphi	
4.	Anita Thakre	3	4	2	1	3			✓	Rajesh Thakre	
5.	Rajesh Rahangdale	1	6	2	3	5			✓	Rajesh	
6.	Ganesh Rahangdale	1	4	3	2	5	-	✓	✓	Ganesh	
7.	Anil Tembhare	3	5	2	1	3	-	-	✓	Anil	
8.	Bhimrao Bansod	1	6	2	2	4	-	-	✓	Bansod	
9.	Vijay Rahangdale	1	8	3	2	5	✓	-	-	Vijay	
10.	Baban Thakre	2	7	3	1	4	✓	-	-	Baban Thakre	

Touphi
15.4.2023 (Dr. K.N. Sathavane)

A Report on Survey on Green Coverage per House of the Village Hingana (Tah: Tumsar District: Bhandara)

Introduction:

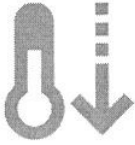
Green cover refers to plants present on the Earth by any means like trees plantation, crop in the fields or any other means by which the Earth appears to be green. Such green coverage is day by day declining due to the over and destructive activities of human. The reduction in the green coverage on the Earth is mainly due to over deforestation, urbanization, industrialization, over grazing and many other activities of the human being for the development and welfare of the human society. If we throw light on the importance and advantages of the green coverage on the Earth, Green ground cover has several advantages for the environment as well as society. Green ground cover provides a rainwater buffer, purifies the air, reduces the ambient temperature, and encourages biodiversity in the city, etc. Followings are the benefits of green coverage.

1. Provides a rainwater buffer



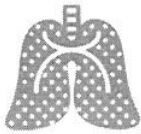
Replace paving stones with plants, a green area absorbs rainwater. This delays the discharge of rainwater to the sewage system, purifies the rainwater, and water also evaporates through the plants. So this all helps to stabilize the groundwater level, reduces the peak load on the sewage system and reduces the risk of flooding.

2. Reduces the ambient temperature



Plants absorb sunlight, 50% is absorbed and 30% reflected; so it helps to create a cooler and more pleasant climate by reducing 3°C temperature of environment.

3. Purifies the air



Plants filter particulate matter from the air and convert CO₂ into oxygen. Green ground cover is contributing for air purification.

4. Reduces ambient noise



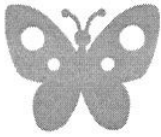
Green ground cover reduces noise in a busy area such as the city. It provides for a quieter environment, both inside and outside building.

5. Has a traffic calming effect



Roundabout and parks which are well structured and cared for have a better traffic calming effect. They are not only pleasant to see, but also promote traffic safety.

6. Increases biodiversity



A green ground cover provides a habitat for birds, butterflies and insects, especially in the city of where concrete and asphalt dominate.

7. Increases the feeling of well-being



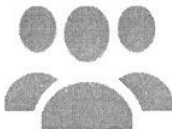
Living and working in a green environment has a positive effect on the well-being of people. Greenery offers relaxation and reduces stress.

8. Offers healing environment



Greenery encourages faster recovery for patients, resulting in a shorter hospital stay. A person's tolerance of pain is higher in a green environment. This is also known as a 'healing environment'.

9. More social interaction, less vandalism



Working or living in a green environment brings people together. A green environment gives a higher perceived and user experience. This has a positive effect on social cohesion in neighborhoods. Areas with more greenery suffer less hinder from aggression, violence and vandalism.

10. Direct-green, low maintenance



With plant mats or vegetation blankets one can lay direct-green ground cover. The mats are carefully pre-cultivated and on delivery boast 90% coverage. This means that weeds hardly get a chance to establish them and the maintenance required is minimal.

11. Erosion protection



On embankments, pre-cultivated plant mats and vegetation blankets ensure that the soil does not get washed away by the rain. It offers a solid, anti-erosion layer.

Study Area:

The village Hingna is located at the west of the Tumsartaluka of Bhandara district of Maharashtra state. Hingana lies between Lat 21.399228^o & Long 79.705297^o. Hingana village is governed by GrampanchayatHingana with a population of size of 1252 as per the 2011 census residing in 408 houses.

Problem Formulation:

In recent past, water shortage became more severe problem in most of the areas of the world due to human huge interference with environment. In the present situation everywhere there are problems of waterscarcity, may be the potable or non potable purposes. This situation becoming alarming day by day, this is due to vagaries of monsoon which results in the shortage of water in reservoirs, urban areas and industries in many areas.

Recent reports showed that the rain is directly dependant on the green coverage on the Earth. It is shown by many reports that, year after years the green coverage on the Earth gets reducing due to human activities for the welfare of human society. In cities the situation is more adverse as there is limited space reserve for greeneries. When we consider the rural areas, the situation is not bad as like cities.

In the present survey /study attempts have been made to know, what is the scenario of the green coverage in the villages? How many houses holding plants? What are sources of water for potable as well as non potable water with respect to the population of the village?

Keeping in mind these objectives, Department of Botany, S. N. Mor College of Arts & Commerce & Smt. G. D. Saraf Science College, Tumsar, District Bhandara, Maharashtra, India encouraged the students of B.Sc. Semester VI for carry out survey on green coverage per house of the village Hingana (tah: Tumsar district: Bhandara) under the guidance of Dr. K. N. Sathawane, Professor and Head Department of Botany.

The survey was carried out on 15. 04. 2023 in the village Hingana by **46 students** of B.Sc. Semester VI. The data was collected by the students in the prescribed format supplied by department. Upon analysis of the data, the surprising results were obtained and the same were discussed.

Result and Discussion:

In the present survey 319 houses of village Hingana area were randomly selected for the study out of 408. Out of 319 houses, 42 houses were found to be without any plant growing in the premises. The green coverage was adopted by 277 houses in Hingana village. The number of plants growing in 277 houses was found to be 1243.

In the present study data was also collected on how many houses are having wells, bore wells and Tap Water as the source of water for day to day works. Among 319 houses, 71 houses are having well while, 74 houses use water from bore wells and 200 houses use Tap water from Grampanchayat water supply scheme.

From the above data, it is clear that the houses using underground water by well or bore well also by tap water. This clearly indicates that

there is increase in water lifting from the ground water though having tap water facility.

Upon analysis, it is known that on an average 3.08 trees per house were planted. This seems to be very unfortunate. There is need to increase the number of trees per houses.

In the survey, it has been found that 1252 people are residing in 408 houses in wards/ nagars. The number of trees per head/people is found to be 0.99, which is less.

The above results on different parameters of the survey clearly indicate that there is very poor literacy among the peoples of Hingana regarding importance of green coverage/ tree plantation and conservation of water, environment and its importance.

Hence, this study suggests that there is an urgent need to look into the following matter:

1. How and what are the practices to be adopted so that the excess lifting of underground water can be checked.
2. Literacy campaigns are to be organized for the charging of underground water table.
3. Literacy campaigns are to be organized to increase the green cover in each house.
4. Practices are to be adopted by way of which the importance of plantation would be inculcated among the peoples.



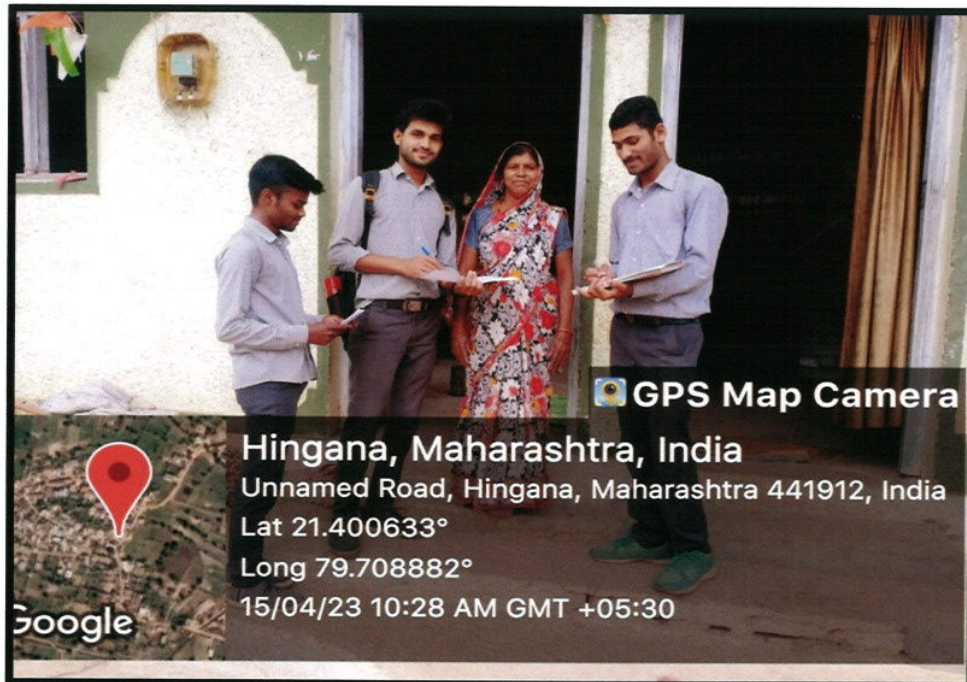
(Dr. K. N. Sathawane)
Head Department of Botany

Date: 20th April, 2023

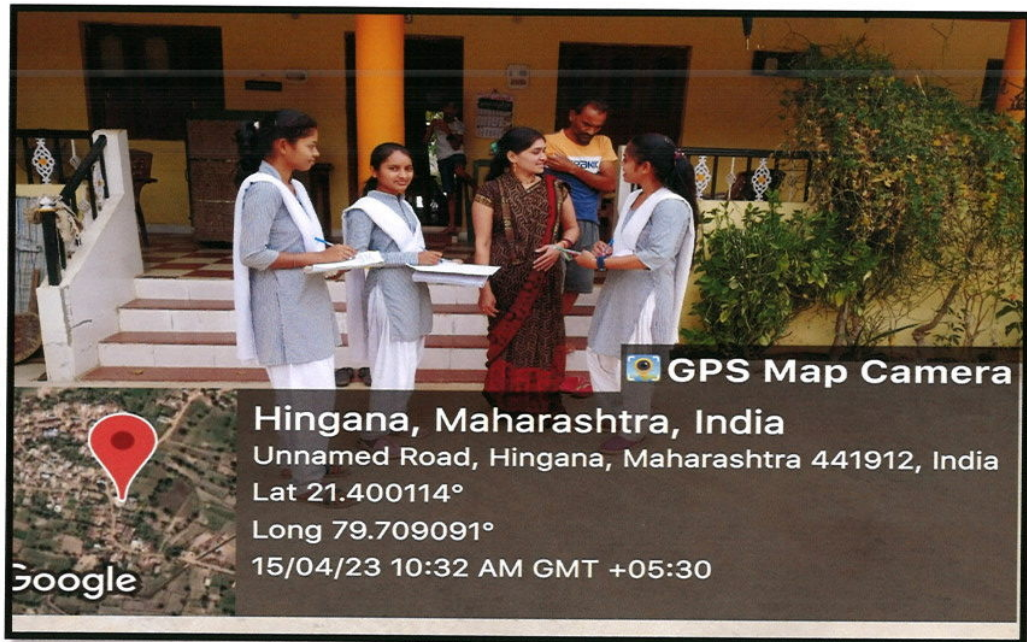
Glimpses of Survey



Students Standing Before Hingana Grampanchayat Office



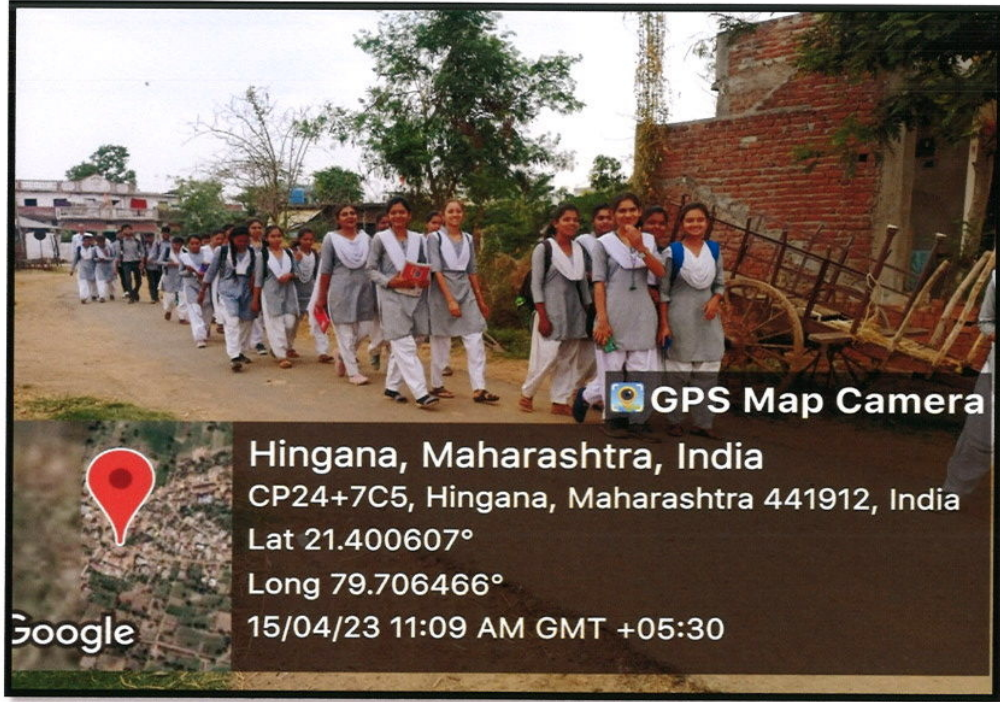
Surveying Students



Surveying Students



Surveying Students



Students moving around the Hingana Village



Students at Hingana Z.P. School Garden