



KAZI NAZRUL UNIVERSITY

NAME : JAYSHRI MANDAL

COLLEGE ROLL NO. : BS001

DEPARTMENT : MICROBIOLOGY HONOURS

REGISTRATION NO : 113211220041

COURSE NAME : ENVIRONMENTAL STUDIES

COURSE CODE : AEE101

TOPIC OF THE PROJECT : QUALITATIVE CULTURE OF MEDICINAL PLANT
IN NEIGHBOURHOOD

A PROJECT SUBMITTED BY 1st SEMESTER
FOR ACADEMIC YEAR 2021 - 2022.

Raniganj Girls' College

Course Name: Environment Studies

Course Code: AEE101

Topic of the project: QUALITATIVE STUDY OF MEDICINAL PLANTS

A Project Report

Submitted by Semester-I students

(Academic Year 2021-22)

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SUDESHNA PANDA	113211220005
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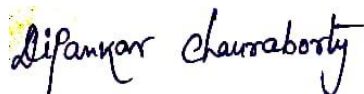
CERTIFICATE

This is to certify that this project titled “QUALITATIVE STUDY OF MEDICINAL PLANTS” submitted by the students for the award of degree of B.A. Honours/ Program is a bonafide record of work carried out under my guidance and supervision.

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Place: Raniganj

Date: 07.03.2022



State Aided College Teacher-II, Department of Geography

Signature of the supervisor with designation and department



Kazi Nazrul University
Asansol West Bengal - 713340

REGISTRATION CERTIFICATE

This is to certify that JAYSHRI MANDAL

Son/Daughter of DULAL CHANDRA MANDAL

of RANIGANJ GIRLS' COLLEGE

is registered as a student of this University,

His/Her registration number is 113211220041 *of* 2021-22



A handwritten signature in black ink, appearing to be 'S. N. Mandal'.

Registrar

CERTIFICATE FROM THE SUPERVISOR

This is to certify that the details of this project "Qualitative Culture of medicinal plant in neighbourhood" by "Jayshri Mandal" is the bonafide work of her submitted and presented to Raniganj Girls' College, Raniganj, Rajbari-713358 Paschim Bardhaman, WB.

The original report was collected by her under my supervision in the academic year 2021-2022. On keeping an eye on her sincerity and self declaration against the project, I recommend the project for evaluation.

SIGNATURE OF THE SUPERVISOR

NAME :

DESIGNATION :

DATE :

ACKNOWLEDGEMENT

Presentation, inspiration and motivation has played a key role in the fulfilment of any venture.

I express my sincere thanks and deep sense of gratitude to our principal Dr. Chhabi De of Ranigarj Girls' College, Ranigarj.

I feel to acknowledge my indebtedness and deep sense of appreciation to my guide Mr. Dipankar Chakraborty, whose valuable guidance, supervision and encouragement throughout the course of this venture.

Last, but not the least, my parents and my elder brother are also a constant source of support on this verge for me. So with due regards, I express a warm gratitude and thanks to them.



HOLY BASIL OR
TULSI

AIM OF THE PROJECT :

To Enquire about the Qualitative culture of medicinal plants in our neighbourhood.

MATERIALS AND METHODS USED :

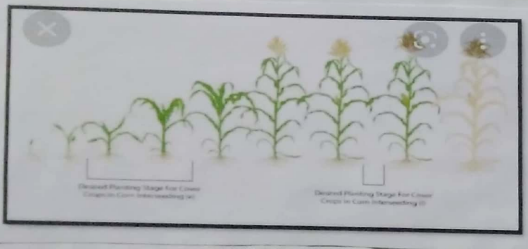
This project contains the various soil, climate and propagation requirements for cultivating Tulsi plants (Ocimum Sanctum). This plant has been chosen as medicinal plant because it is easily available as well as require such temperature conditions which can be easily provided.

SOIL REQUIREMENTS FOR TULSI FARMING :

Fertile soil with high organic content and having better draining property. The pH range of the soil should be 4.3 to 8.2. The type of soils suitable for basil cultivation is a rich loam, poor laterite, saline and alkaline soil. Too much alkaline or saline soil must be avoided.

CLIMATIC REQUIREMENTS FOR TULSI OR BASIL :

The tulsi plants need a warm climate for growth. The germination of tulsi seeds or re-juvenation of seeds needs a temperature of approximately 20°C and during growth phase it requires an approximate temperature of 7°C - 27°C . It is observed that the plant is susceptible to frost as well as cold climate. It grows really well under full sunny conditions. The plant can also be



STAGES OF GROWTH

Cultivated in shady conditions, but such leaves has low oil content. It requires drip method of irrigation.

PROPAGATION TECHNIQUES OF TULSI PLANTS :

- 1) Tulsi plant can be propagated either by seed or stem cuttings.
- 2) Seed propagation is done by sowing them in suitably created nursery beds.
- 3) The nursery beds has to be partially in shade, with sufficient water supply.
- 4) Germination of seeds starts in 8 to 12 days.
- 5) The terminal cuttings are used for propagating the Tulsi plants vegetatively.
- 6) This is generally done in the month of October to December.
- 7) It takes four to six weeks for the cutting to deeply root into the soil.

MEDICINAL BENEFITS OF TULSI :

- 1) Tulsi is rich source of vitamin C and zinc this helps in boosting natural immunity.
- 2) Tulsi acts as antipyretic and analgesic.
- 3) Reduces cough, cold, respiratory disorder, stress and blood pressure.
- 4) Tulsi has strong antioxidant property and is profoundly effective for heart health.
- 5) Tulsi acts as insect repellents and consumption of it clears out blemishes, acne, age marks and hair loss.
- 6) Tulsi also lowers blood sugar level.

CONCLUSION

With the onset of industrial growth and modern approaches of scientific research into tulsi (*Ocimum sanctum*) demonstrates the various psychological, physiological and medicinal benefits of consuming tulsi and provides testament to the wisdom inherent in Hinduism cultures and the richness of ancient Ayurveda. Tulsi the so called "Holy Basil" or "Queen of Herbs" finds place in worship. It can be ingested, made into tea and used for spiritual value as well. Providing as a soul source for ethical, sustainable and ecological farming practices that suits and sustains livelihood for thousands of farmers. It is a low cost cultivation with high profit. The rearing and cultivation of tulsi goes beyond providing benefits to each individual and households and begins to address broader social, economic and environmental issues. Though with advancement we are on the verge of eliminating all goodness, but the tulsi plant has been able to secure some bits of goodness in us and our environments.



IMAGE OF TULSI PLANT

BIBLIOGRAPHY AND REFERENCES

- 1) Special references from the article published by School of Health Sciences, RMIT University, Victoria, Australia (2014).
- 2) WHO Global Report, Geneva (2005).
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- 4) International Institute of Herbal Medicine, Lucknow, report on 2010.
- 5) web browsers.