Department : Department of Forestry, Wildlife and Environmental Sciences		
Academic Year : 2021-22		
Sr. No.	**Programme Code**	**Name of the Programme**
01.	201	B. Sc. (Forestry)

Following students have carried out their Project work/ Internship/ Field Project/Industrial Training for the academic session 2021-22

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TRAINING REPORT ON FOREST ATTACHMENT

(Session : 2021-22)

Submitted for partial fulfillment of requirement for the Degree of (Bachelor of Science In Forestry)

(Session: 2021-22)

Under the Supervision of:

Dr. Garima Tiwari
Assistant Professor
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Submitted By:

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

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I Wish Him All The In His Academics.

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Dr. GARIMA TIWARI

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I hereby declare that the present Village Attachment Report entitled: **"Training Report On Forest Attachment"** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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1.NURSERY MANAGEMENT

INTRODUCTION

Nursery refers to an area from which seedlings are raised for eventual planting out.

Nursery management :- nursery management may be define as the sum of the activities Performed for the successful production ,care and marketing of different planting material.

DETAILS ABOUT VISITED NURSERY:-

Fadhakhar nursery which is 9 k.m. away from Nehru chowk Bilaspur
Total area of fadhakhar nursery is 2 hectare.

Total 3 staff work in this nursery and also 10 workers are work under manrega yojna.

IMPORTANCE OF NURSERY:-

Establishment of nurseries is important for the following reason:

* Production of proposed size and age of seedling.
* Production of the desired number of seedling.
* Production of healthy plants of superior quality.
* Production of desired plants at the right time.
* Production of seedlings attach per cost.

PREPARATION OF NURSERY Selection of site :

1.The nursery area should be nearer of the water source.

2.Generally, the location should be partially shaded i.e. under the trees . If not, Artificial shade is to be provided.

3.It should be well protected from animals.

4. Proper drainage facilities should be provided.
Selection of soil A medium textured ,loam (or) sandy loam soil is preferred .Soil should be rich in organic matter. Soil depth should be preferably by 15-25cm.

Preparation of nursery beds.

A nursery bed is a specially prepared portion of land put aside for raising seedlings. It acts as a temporary home for young plants until they are eventually planted in a Permanent garden. seeds are shown on raised bed nursery bed or sunken beds Consisting of a 10cm layer of sandy loam, over laid by 3cm thick layer of saw Dust the standard size of the bed is 12m*1.2m.

Preparation of media for propagation :

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SOCIO-ECONOMIC SURVEY OF KONCHARA VILLAGE, BILASPUR, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for partial fulfillment of requirement

for the Degree of (Bachelor of Science In Forestry)

(Session: 2021-22)

Under the Supervision of:

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

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Dr. Garima Tiwari

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: ***"SOCIO-ECONOMIC SURVEY OF KONCHARA VILLAGE, BILASPUR, CHHATTISGARH"*** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behaviour and economics, and it examines how social norms, ethics and other social philosophies that influence consumer behaviour shape an economy, and uses history, politics and other social sciences to examine potential results from changes to society or the economy. Socioeconomics refers broadly to the "use of economics in the study of society."In general, its studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

1.4 SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors. These aspects and variables could, in general, be categorized into several categories including, economic, demographic, public services, fiscal and social.The social aspects may,for instance,involve community life as well as social and cultural attitude and values. Community services may meanwhile be concerned with housing and requirements for public services such as water,sanitation,communications,police and fire protection facilities, solid waste disposal as well as health and educational services. Demographic aspects may

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include population growth structures, distribution and density. Similarly, economic factors may include general characteristics, structures and changes various economic activities and employment.

A socioeconomic assessment is a way to learn about the social, cultural, economic and political conditions of any village including individuals, groups, communities or the entire area. The socioeconomic study is intended to:

- Assess the prevailing socioeconomic conditions in the study site. This includes provision of a baseline study and characterizing the existing state of the study site. This will assist in identifying the main areas of concern.
- Analyze the impacts of the prevailing study on the socioeconomic structure of the study sites.
- Develop a set of guidelines for judging the local conditions.

1.5 .AIM OF THE SURVEY:-

The main aim of the survey is to know and understand about the socio-economic conditions of the village Konchara. To identify and enlist the strengths and weakness of the village and then to find a way to boost the strengths and overcome the weakness.

1.6. OBJECTIVES OF THE SURVEY:-

The main aim of the work,i.e.the overall purpose of the study was clear and concisely defined. The overall study objective was to know about the socio-economic status of the Konchara ,to identify various obstacles in growth, development process and to formulate a broad planning and development framework. The development of area depends upon Socio-Economic setting of the area. The basic aims and objectives of our survey were:-

1. To collect information on demographics:population,age distribution, residence patterns and ratio of men to woman.

2. To know about the population growth and their views and consciousness regarding this.

3. To collect data on the local area, it's past and present and various problems of Socio-Economic condition.

4. To know about the educational status of the particular village and reasons of their educational backwardness if any.

5. To know about the transportation and communication facilities of the village.

1.7 METHODOLOGY ADOPTED FOR SURVEY:-

For a socioeconomic study to be organized and conducted properly, it should be systematic, and have minimum bias, and allow for consistent comparison and reasoned

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REPORT ON INDUSTRIAL TRAINING

(Session : 2021-22)

Submitted for partial fulfillment of requirement

for the Degree of (Bachelor of Science In Forestry)

(Session: 2021-22)

Under the Supervision of:

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I Wish Him All The In His Academics.

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I hereby declare that the present Village Attachment Report entitled: **"REPORT ON INDUSTRIAL TRANING"** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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1. WOOD INDUSTRY

INTRODUCTION

The **wood industry** or **lumber industry** is the industry concerned with forestry, logging, timber trade, and the production of primary forest products and wood products (e.g. furniture) and secondary products like wood pulp for the pulp and paper industry. Some of the largest producers are also among the biggest owners of timberland. The wood industry has historically been and continues to be an important sector in many economies.

History of use of wood

The wood economy was the starting point of the civilizations worldwide, since eras preceding the Paleolithic and the Neolithic. It necessarily preceded ages of metals by many millennia, as the melting of metals was possible only through the discovery of techniques to light fire (usually obtained by the scraping of two very dry wooden rods) and the building of many simple machines and rudimentary tools, as canes, club handles, bows, arrows, lances. One of the most ancient handmade articles ever found is a polished wooden spear tip (Clacton Spear) 250,000 years old (third interglacial period), that was buried under sediments in England, at Clacton-on-Sea.

OBJECTIVE

- To provide an effective framework for consultation, international cooperation and policy development among all members with regard to all relevant aspects of the world timber economy;
- To provide a forum for consultation to promote non-discriminatory timber trade practices;
- To contribute to the process of sustainable development;
- To enhance the capacity of members to implement a strategy for achieving exports of tropical timber and timber products from sustainably managed sources by the Year 2000;
- To promote the expansion and diversification of international trade in tropical timber from sustainable sources by improving the structural conditions in international markets, by taking into account, on the one hand, a long-term increase in consumption and continuity of supplies, and, on the other, prices which reflect the costs of sustainable forest management and which are remunerative and equitable for members, and the improvement of market access;

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TRAINING REPORT
ON
FIELD TRAINING, (ATTACHMENT UNDER RAIGARH FOREST DIVISION, CHHATTISGARH)

(FOREST ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

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Submitted By:

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I wish her all the success in her future academic endeavors.

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: **"TRAINING REPORT ON FIELD TRAINING, (ATTACHMENT UNDER RAIGARH FOREST DIVISION, *CHHATTISGARH*"** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

Abhishek Singh
B.Sc. Forestry VIIIth SEMESTER
Roll. No.: 18007003
Enrollment No.: GGV/18/6049

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FOREST ATTACHMENT

(FOREST ACTIVITIES AND OPERATIONS UNDER DEPARTMENT OF FORESTRY, RAIGARH (496001))

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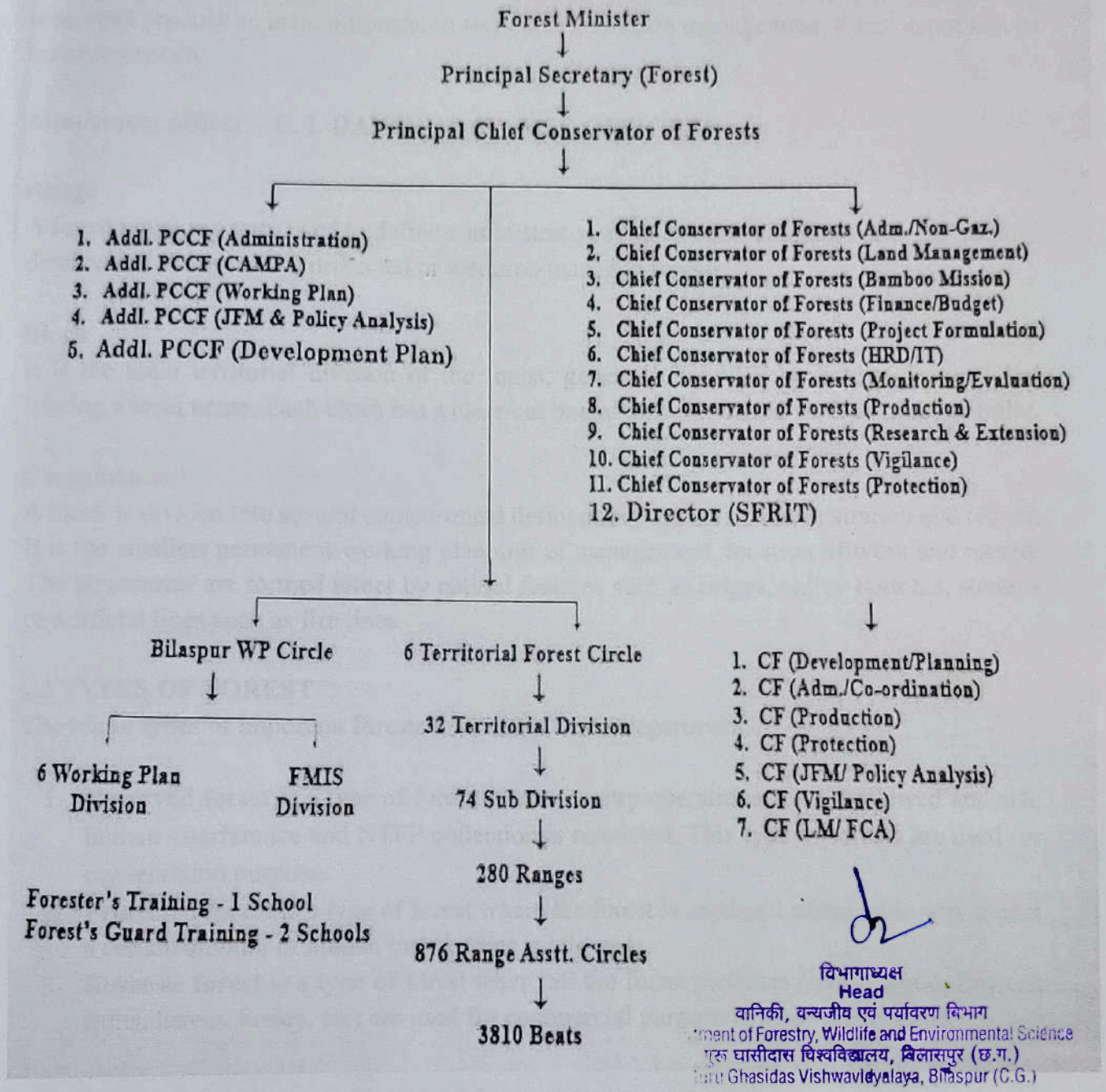
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CHAPTER-1

1. CHHATTISGARH FOREST DEPARTMENT: INTRODUCTION

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. The whole Chhattisgarh Forest is divided into 6 different working circle and circles are divided into coupes and compartments. All 6 working circle have their different management plans as per their requirement. In Chhattisgarh there are 34 forest division and for every division 10 years working plan is made.



ADMINISTRATIVE SETUP OF FOREST DEPARTMENT

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TRAINING REPORT ON

INDUSTRIAL TRAINING, RAIGARH, CHHATTISGARH

(INDUSTRIAL TRAINING REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

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Assistant Professor

Department of Forestry, Wildlife
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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

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(A central university established under Central Universities Act 2009, No. 25 of 2009)

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This is to certify that the Industrial Training Report entitled: **"TRAINING REPORT ON INDUSTRIAL TRAINING"** has been submitted for the partial fulfilment of Degree of **Bachelor of Science in Forestry** to the **Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya** Bilaspur, Chhattisgarh carried out by **Mr. A of B.Sc. Forestry, VIIIth semester student** **(Roll no – 18007003)** under my guidance and supervision.

His work was appreciable and satisfactory .I wish him success in future academic endeavours.

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Chapter-1

(INTRODUCTION)

1. Industrial Training

Industrial Training refers to the practical training in a company or an industrial environment that helps the students in developing the required skills which will help them in becoming a professional of the future.

PURPOSE

The purpose of Industrial Training is to expose students to real work of environment experience and at the same time, to gain the knowledge through hands on observation and job execution. From the industrial training, the students will also develop skills in work ethics, communication, management and others.

Industrial training is the carefully designed training program under the assistance of the professionals who guides with building exemplary modules. The students are equipped with the practical knowledge and nitty and gritty of technologies. The candidates build skills to sharpen their job acumen.

2. It's Aim & Importance

Aim

The aim of this training is as presented below:-

- To expose students to the working environment of industries on ground level
- To make the student face the pressure and physical burden during that industrial work
- To make the student understand how to handle pressure , real life management skills and the process of manufacturing , storage , marketing , collection of raw materials .
- To make the students understand the problems faced by a particular industry in a certain area.

Importance

Industrial Training helps students to develop their skills in the application of theory to practical knowledge.

Industrial training helps to develop the skills and techniques which are directly relevant to their desired goals.

Industrial Training also increases students' responsibility and good work habits.

3.Objectives

The objectives of industrial training are:

To provide students the opportunity to test their interest in a particular career before permanent commitments are made.

To develop skills in the application of theory to practical work situations.

To develop skills and techniques directly applicable to their careers.

The objective of industrial training is to give the student supervised opportunities to experience the essential practical tasks emphasised in their professional study and also to provide opportunities to apply their acquired skills and knowledge in working life.

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SOCIO-ECONOMIC SURVEY OF JURDA VILLAGE, RAIGARH, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

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Date:

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This is to certify that the Village Attachment Report entitled: ***"SOCIO-ECONOMIC SURVEY OF JURDA VILLAGE, RAIGARH, CHHATTISGARH"*** submitted for the partial fulfillment of Degree of ***Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr. Abhishek Singh of B.Sc. Forestry, VIIIth Semester, and Enrollment No. (GGV/18/6049) under my guidance and supervision.***

I wish her all the success in her future academic endeavors.

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: ***"SOCIO-ECONOMIC SURVEY OF JURDA VILLAGE, RAIGARH, CHHATTISGARH"*** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY: -

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socio-economic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 DEFINITION: -

Social economics is a branch of economics that focuses on the relationship between social behaviour and economics, and it examines how social norms, ethics and other social philosophies that influence consumer behaviour shape an economy, and uses history, politics and other social sciences to examine potential results from changes to society or the economy. Socioeconomics refers broadly to the "use of economics in the study of society" In general, it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY: -

Socio-economic observation helps to get the details about: -

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

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Village attachment report

Socio-Economic Survey of Sherpar Village,Rajnandgaon,C.G.

Submitted for partial fulfilment of requirement
for the Degree of
Bachelor of Science in Forestry

(SESSION-2021-2022)

Supervised by-

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Chapter-1

Introduction

Socioeconomics refers broadly to the"use of economics" in the study of society.In general,it studies the relation of economics to social values.

Socio-economic survey is an intervention which lets organizations validate their strategic decisions.By conducting socio-economic surveys, you get a lot of data about the social, political and economic aspects of a territory.This data helps you visualize the current scenario and consequences of your decision. Also,socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it.Socioeconomic status is based on income,education level,occupation,social status,perception and various other factors.

Demographics is the study of a population based on factors such as age, race, and sex. Demographic data refers to socio-economic information expressed statistically, also including employment, education, income, marriage rates, birth and death rates and more factors. Governments, corporations, and nongovernment organizations use demographics to learn more about a population's characteristics for many purposes, including policy development and economic market research.

Knowledge about the demographic profile of a village helps to identify and analyze the different socio-economic aspects of the village very easily so that further developmental strategies can be made and carried out which can lead to the development of the village and its people

Importance of Socio-Economic survey-

Socio economic survey helps us get details as folllows-

1. Social Status of the village Community
2. Demographic profile of the Society
3. Educational Status and Literacy rates
4. Culture and Customs of selected area
5. Economic status of the selected society

Objectives of the survey-

The aim ot this attachement was to provide exposure of a village lifestyle and community structure to students,to study about the socio-economic status of selected villages:identification of positive and negative aspects of that village and to suggest means to overcome negative issues.

Some highlights of objectives are as follows-

1. To collect information on demographics:population,age distribution,residence patterns and ratio of men to woman.
2. To know about the Population structure and their views regarding it
3. To collect data from village and know about the Past,Present of Village's Socio-economic Condition

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4. To study about educational status of the village and problems associated for particular gender,caste if any.
5. To collect data about the agricultural and landholding patterns.
6. To collect data about the different castes,religions in village and their socio-economic status.
7. To collect data about the benefits of government schemes and how much villager get benefited by them.
8. To study about the health and hygiene awareness of the village.
9. To study about the Transportation and marketing facalities available to villagers
10. To study about dependence of villagers over forest and forest products.
11. To study about the consumption capacity of villagers.
12. To collect data about migration of people for livelihood or education
13. To know about the crime rates.

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Forest Attachment Report

Submitted for partial fulfilment of requirement for the

Degree of

Bachelor of Science in Forestry

Session 2021-2022

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Koni, Bilaspur - 495009 (C.G.)

CERTIFICATE

This is to certify that the **Forest attachment report** submitted for the partial fulfilment of Degree of **Bachelor of Science in Forestry** to the Department of Forestry,Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by **Mr. AJAY AMARIA, B.Sc. Forestry, VIIIth Semester** (Roll no.-18007004) under my supervision.

His work was appreciable and satisfactory.I wish him success in future academic endeavours.

Dr .Garima Tiwari

Assistant Professor
Department of Forestry,Wildlife
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Chapter-1

Introduction

Chhattisgarh was carved out of Madhya Pradesh in the year 2000. It covers an area of 1,35,192 sq km,which is 4.11% of the geographical area of the country.

According to India State of Forest Report 2021,a total of 41.21% out of overall geographical area of state is under Forest cover.According to canopy density this forest cover is divided into three categories Very dense forest-5.23% moderately dense forest-23.87% and open forest-12.11%.By area 55716.60 sq kms is under forest cover in Chhattisgarh.Bijapur district is having the highest forest cover by geographical area 76.65% while Janjgir-Champa is having lowest just 3.93% of GA.

As per the Champion & Seth Classification of Forest Types (1968), the forests in Chhattisgarh belong to two Type Groups i.e Tropical Moist Deciduous Forests and Tropical Dry Deciduous Forests which are further divided into 12 Forest Types. The State's two main tree species are Sal (*Shorearobusta*) and Teak(*Tectona grandis*). Other major species are Bija (*Pterocarpus marsupium*), Saja (*Terminalia tomentosa*),Dhavdha (*Anogeissus latifolia*), Mahua (*Madhuca indica*), Tendu (*Diospyros melanoxylon*) and Bamboo(*Dendrocalamus strictus*) etc.

Three National Parks and 11 Wildlife Sanctuaries constitute the Protected Area network of the State covering 4.93% of its geographical area.

Keshkal Division-Keshkal is a forest division in Kanker Circle of Chhattisgarh.It is very rich in terms of flora and fauna.It is mostly covered with Sal forest and is famous its valley.Many types of medicinal plants are found here,Keshkal is one of the rising tourist destinations in Chhattisgarh.



Fig.1-Map of Keshkal Division

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Objective of Forest Attachment-

In the final semester of B.Sc Forestry programme students are attached with forest department.Through this attachment the students are given exposure to various tasks being carried out in forest and allied areas by forest department,so that, students can understand and learn about the diverse nature of works in forest and wildlife management,to build confidence and ability to work in project mode and understand the challenges in field conditions.

In addition to this students get an oppurtunity to know about the practical application of whatever they have learnt so far in their earlier classes.

We were attached with Keshkal forest division,Chhattisgarh.During our attachment we got to learn about Deparmental structure and working,Working plan,Nursery management,Plantation techniques and management,Medicinal plants,Ecotourism model,Timber Depot,NWFPs etc. Details of these are discussed in later chapters.

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Industrial Attachment Report

Submitted for partial fulfilment of requirement for the

Degree of

Bachelor of Science in Forestry

Session 2021-2022

Supervised by-

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Submitted by-

Ajay Amaria
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8th Semester
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(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)
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DECLARATION

I hereby declare that the present **Industrial Attachment Report** interpretation or part of it has not been submitted for any degree or diploma of any University.The source of material and all assistance received during the course of investigation have been duly acknowledged.All the data and observations given in the report are authentic to my knowledge.

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Chapter-1

Introduction

Forest based industry-

The industries that get their raw material from forests are known as forest-based industries.In other words it means all industries that rely on access to forested areas, including but not limited to timber, tourism, apiculture, wildflower picking, seed collecting, plywood industry and basic raw materials.The major forest-based industries are the paper and pulp industry, match wood industry,timber and sandalwood industry,Plywood industries,oil, and biodiesel industry ,herbal medicine industry etc.

The Forest-based Industries are an important link between urban, peri-urban and rural areas.

Forest based industries in Chhattisgarh-

Chhattisgarh is very rich in terms of forest and its diversity.According to India State of Forest Report 2021,a total of 41.21% out of overall geographical area of state is under Forest cover.According to canopy density this forest cover is divided into three categories Very dense forest-5.23% moderately dense forest-23.87% and open forest-12.11%.

Chhattisgarh has wide scope of forest based industrial boost such as medicinal plant industry,bamboo article manufacturing and much more as many of the raw materials are available easily.Also lot of indeginous knowledge in present in state about medicinal plants which can be used for betterment of people through proper research and developments.

Major forest based industries in Chhattisgarh are Plywood industry,Furniture industry,Timber industry,Bidi making. No pulp and paper industry is present in the state.

Aim of Industrial attachment-

In eighth semester of Bachelor of Science in Forestry,industrial attachment to forest based industries is a part of curriculum.Through this attachment students get to study the nature of industrial and business organization–structure, raw material–collection and processing of raw-material, hands on practical, production and management process, marketing and financial management.Overall it can be said that students learn about how forest based industries operate and their scope.

We as students learn about challenges associated to forest based industries and problems related to same.We were attached to Timber industry and Plywood industry details of these are discussed in later chapters.

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A REPORT

ON FOREST ATTACHMENT

Submitted for partial fulfilment of requirement

For the Degree of

Bachelor of Science

In

Forestry

(Session:2021-22)

Supervised by:
Dr. Garima Tiwari
Assistant Professor
Department of Forestry, Wildlife
&EnvironmentalSciences
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Submitted By:
Mrs Akash Kumar Patel
B.Sc. Forestry VIIIth Semester
Enrol No: GGV/18/6055
RollNo.18007006

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Date 4/5/22

CERTIFICATE

This is to certify that the **Forest Attachment** report submitted for the partial fulfilment of Degree of Bachelor of Science in Forestry to Department of Forestry, Wildlife &Environmental Science, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr. Akash Kumar Patel, B.Sc. Forestry, VIIIth Semester and Enrollment No. (GGV/18/6055) under my guidance and supervision.

I wish him all the success in his future academic endeavours.

Dr. GARIMA TIWARI
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DECLARATION

I hereby declare that the present **Forest Attachment Report** has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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INTRODUCTION

Chhattisgarh was carved out of Madhya Pradesh in the year 2000. It covers an area of 1,35,192 sq km, which is 4.11% of the geographical area of the country. The State is bordered by the Madhya Pradesh in the northwest, Uttar Pradesh in the north, Jharkhand in the northeast, Maharashtra in the southwest, Telangana in the south and Odisha in the southeast. The State falls under East Deccan physiographic zone and can be divided into three agro-climatic zones, viz. the Chhattisgarh Plains, the Northern Hills of Chhattisgarh and the Bastar Plateau. The State lies between 17°47'N to 24°06' N latitude and 80°15'E to 84°24' E longitude. It has a tropical hot and humid climate. The average annual rainfall varies from about 1,100 mm to about 1,700 mm and the average annual temperature ranges between 11°C to 47°C. The State is drained by number of rivers which include Rihand, Hasdo (a tributary of Mahanadi) and Indravati. There are 18 districts, out of which 11 are tribal districts. The State does not have any hill district. As per the 2011 census, Chhattisgarh has a population of 25.55 million accounting to 2.11% of India's population. The urban, rural and tribal population comprise 23.24%, 76.76% and 30.62% respectively. The average population density of the State is 189 per sq km, which is much lower than the national average of 382 persons per sq km. The 19th Livestock census 2012 has reported a total livestock population of 15.04 million.

FOREST RESOURCES

Recorded Forest Area (RFA) in the State is 59,772 sq km of which 25,786 sq km is Reserved Forest, 24,034 sq km is Protected Forest and 9,952 sq km is Unclassed Forest. In Chhattisgarh, during the period 1st January 2015 to 5th February 2019, a total of 3,793.05 hectares of forest land was diverted for various non-forestry purposes under the Forest Conservation Act, 1980 (MoEF&CC, 2019).

Chhattisgarh belong to two Type Groups i.e Tropical Moist Deciduous Forests and Tropical Dry Deciduous Forests which are further divided into 12 Forest Types. The State's two main tree species are Sal (Shorea robusta) and Teak (Tectona grandis). Other major species are Bija (Pterocarpus marsupium), Saja (Terminalia tomentosa), Dhavdha (Anogeissus latifolia), Mahua (Madhuca indica), Tendu (Diospyros melanoxylon) and bamboo (Dendrocalamus strictus) etc. The State is rich in mineral resources like, coal, iron, bauxite, limestone, corundum, tin etc which are mainly found in forest areas. About 50% of the villages in the State are located inside five kilometers radius of forests. The inhabitants are mainly tribal, economically backward, non-tribal and landless people who depend significantly on the forests for livelihood and other needs. Thus, the pressure on forests is high in the State. Joint Forest Management (JFM) began in the State in 1991 and as per the latest available report, there are 7,887 JFMCs covering an area of 33,19,000 hectares & involving 11,17,000 families.

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VILLAGE ATTACHMENT REPORT

ON

(SOCIO-ECONOMIC SURVEY OF BHARUHAMUDA)

SESSION- 2021-22

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR DEGREE IN FORESTRY.

SUPERVISED BY:-

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Department of Forestry,
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SUBMITTED BY:-

Akshay Suryavanshi
B.SC. FORESTRY 8th Sem
ROLL NO. - 18007007
ENROLLMENT- GGV/18/6056

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CERTIFICATE

This is to certify that the Village Attachment Report entitled: **"SOCIO-ECONOMIC SURVEY OF BHARUHAMUDA VILLAGE – PANCHAYAT– CHAITMA, KORBA CHHATTISGARH"** has been submitted for the partial fulfilment of degree of **Bachelor of science in forestry** to the Department of Forestry, Wildlife & Environmental Science, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh carried out by **Mr. AKSHAY SURYAVANSHI B.Sc. Forestry, VIIIth Semester, Student (Roll no. - 18007007)** under my supervision. His work was appreciable and satisfactory.

I wish him success in future academic endeavours.

Dr. Garima Tiwari

Assistant professor

Department of forestry, wildlife and Environmental Sciences.

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Signature & Date:

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: "SOCIO-ECONOMIC SURVEY OF – BHARUHAMUDA VILLAGE–, KORBA, CHHATTISGARH" submitted to the Guru Ghasidas Vishwavidyalaya is record of original work done by me under the guidance of Assistant professor and this training report work has been completed for the award of Bachelor degree in forestry. The source of the materials and the assistance received during the online work has-been duly acknowledged.

Signature

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Akshay Suryavanshi

B.sc. Forestry 8th sem.

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Abstract

Socioeconomic status is the foremost issue in the contemporary world, especially in thedeveloping world. Socioeconomic status in rural areas is gradually improving over a period of time. Many programmes and policies have been implemented to improve the socioeconomic status of population in rural areas. But in economic sense, people of therural areas could not develop equally over the region. Even within a small village, different types of economic classes are found.

In this report paper an attempt has been made to find out the actual socioeconomicstatus of population of different income groups. The entire study is based on primary data which have been collected by door to door survey with a suitable questionnaire by the researchers.

There is a report paper on socioeconomic survey of "BHARUHAMUDA" a typical Indianvillage in **KORBA** district of **CHHATTISGARH.** According to 2011 census data thereis 400 inhabitants –80 families. Total no. Of household surveyed **65.47%**.Animals ownedby Bharuhamuda resident are cow, goat & chicken. In the living conditions most familyhave **4** member. Most house have only **two rooms.** In the nutrition condition most familyeating fish and meat in twice a week. There is **Farming** based economy.

Socio-Economic survey is a very development activity. In **socio-economic** we prepare demographic details, household category wise, population report, education status, landholding and cropping pattern, lives stock details of the village.

Annual income and expenditure of families in the village the information regarding every family in the village can be retrieved in any manner required. Once village information is collected and analysis the changes that take place in the entire villageas well as in each individual family.

We prepared a report paper from taking data of Bharuhamuda village Chhattisgarh, India.

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TRAINING REPORTON

FIELD TRAINING (ATTACHMENT WITH STATE FOREST DEPARTMENT)

SESSION- 2020-21

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT

OF BACHELOR DEGREE IN FORESTRY.

SUPERVISED BY:-

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CERTIFICATE

I have great pleasure in certifying that **Akshay Suryavanshi** is a regular student of B.Sc. Forestry VIII Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Science. She has completed this forest attachment training during this semester under my guidance. I wish her all the success in her academics.

Signature & date:

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DECLARATION

I hereby declare that the project work entitled: "Forest attachment report" submitted to the Guru Ghasidas Vishwavidyalaya is record of original work done by me under the guidance of , Assistant professor and this training report work has been completed for the award of Bachelor degree in forestry. The source of the materials and the assistance received during the online work has-been duly acknowledged.

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Akshay Suryavanshi

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CHAPTER -1
INTRODUCTION
1.1. What is forest?

Forest:- A forest is **a large area of land that's covered in trees**. The word forest can also refercollectively to those trees. An area that's covered in trees can be described with the adjective forested.Less commonly, forest can be used as a verb meaning to cover an area with trees.

or

According to UNFCCC, 2001: "Forest is a minimum area of land of 0.05-1.0 hectares with tree crown cover (or equivalent stocking level) of more than 10-30 per cent with trees with the potential to reach aminimum height of 2-5 meters at maturity in situ. A forest may consist either of closed forest formations where trees of various stories and undergrowth cover a high proportion of the ground or open forest. Young natural stands and all plantations which have yet to reach a crown density of 10-30 per cent or tree height of 2-5 meters are included under forest, as are areas normally forming part of theforest area which are temporarily unstacked as a result of human intervention such as harvesting or natural causes but which are expected to revert to forest.

1.2 TYPES OF FOREST

The major types of important forests in terms of forest department:

1. **Reserved forest:-** is a type of forest where forestry operations are not allowed and also human interference and NTFP collection is restricted. This type of forests are used for conservation purpose.
2. **Protected forest:-** is a type of forest where the forest is used in a sustainable way means a certainamount of human interference is allowed.
3. **Revenue forest:-** is a type of forest where all the forest products (like – wood, flowers, fruits,leaves, honey, etc) are used for commercial purpose to generate revenue.

Types of Indian Forest

Indian forests perform an important role to make a healthy environment and it reduce air pollutions. Near about 19.26% of total Indian areas are covered with forest. These forests can be classified in five major groupsnamely:

1. Moist tropical forest
2. Dry tropical forest
3. Montane temperate forest
4. Montane sub tropical forest

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TRAINING REPORTON

INDUSTRIAL TRAINING

SESSION- 2020-21

SUBMITTED FOR PARTIAL FULFILMENT FOR

THE REQUIREMENT OF BACHELOR DEGREE

IN FORESTRY.

SUPERVISED BY:-

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SUBMITTED BY:-

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I have great pleasure in certifying that **Akshay Suryavanshi** is a regular student of B.Sc. Forestry VIII Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Science. She has completed this forest attachment training during this semester under my guidance. I wish her all the success in her academics.

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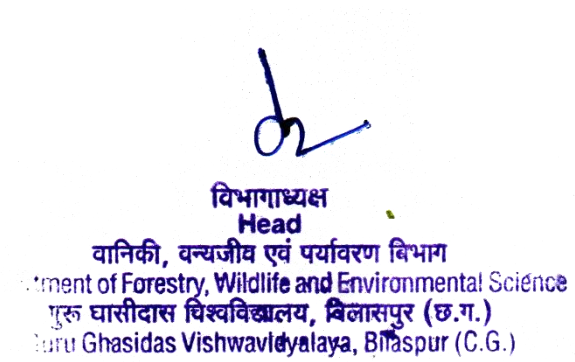
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CHAPTER 1

INTRODUCTION

Introduction- **Wood** is one of the most sustainable and environmentally favourable constructionmaterials available. This is due to its absorption of carbon dioxide while growing, adaptability asa product and recyclability or use as a biofuel. Wood is the most eco-friendly material we use. Using wood also helps keep carbon out of the atmosphere, helping to mitigate climate change. Trees store carbon dioxide as they grow. After harvest, wood products continue to store much ofthis carbon. Wood is better for the environment in terms of greenhouse gas emissions, air and water pollution, and other impacts. Coupled with greater wood construction in public and privateproperty developments, this would amount to around 1 million tonnes of carbon dioxide per year.If wood's carbon storage is added to the substitution effect, the calculated saving comes in at 2– 4 million tonnes of carbon dioxide per year. It is not good to use wood, because now a days the earth facing a huge problem of deforestation. Using excess wood means cutting down of more trees. This trees are the only hope that provide us oxygen and fulfil our needs. So without trees no oxygen on earth and life is impossible for humans as well as animals on earth. Here is anotherreason that wood gets termites. So if we use the same wood for many years or months, it would catch termites. Its alternative can be chemically synthesized materials like polystyrene is being widely used now a days.

Humans went into the forest and looked for the best suited tree (or part of a tree) for basic needs.Based on experiences and traditions to develop variety of technologies & uses such as .

*Burning and Heating

*Shelter, Tent and House Building

*Ship and Building

*Tools and Weapons

*Art and Religion

Major Technical characteristics of Wood from Human Utilization Point of View:-

Favourable.-

- ✓ Better strength: weight ratio
- ✓ Excellent shock absorbing ability & stiffness
- ✓ Inert to chemicals (mild acids).
- ✓ Bad conductor of heat & electricity.
- ✓ Attractive texture, figure, color
- ✓ Easy to work with simple tools.

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TRAINING REPORT
ON
FIELD TRAINING, (ATTACHMENT UNDER RAIGARH FOREST DIVISION, CHHATTISGARH)

(FOREST ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

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Assistant Professor
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Submitted By:

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I wish her all the success in her future academic endeavors.

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FOREST ATTACHMENT

(FOREST ACTIVITIES AND OPERATIONS UNDER DEPARTMENT OF FORESTRY, RAIGARH (496001))

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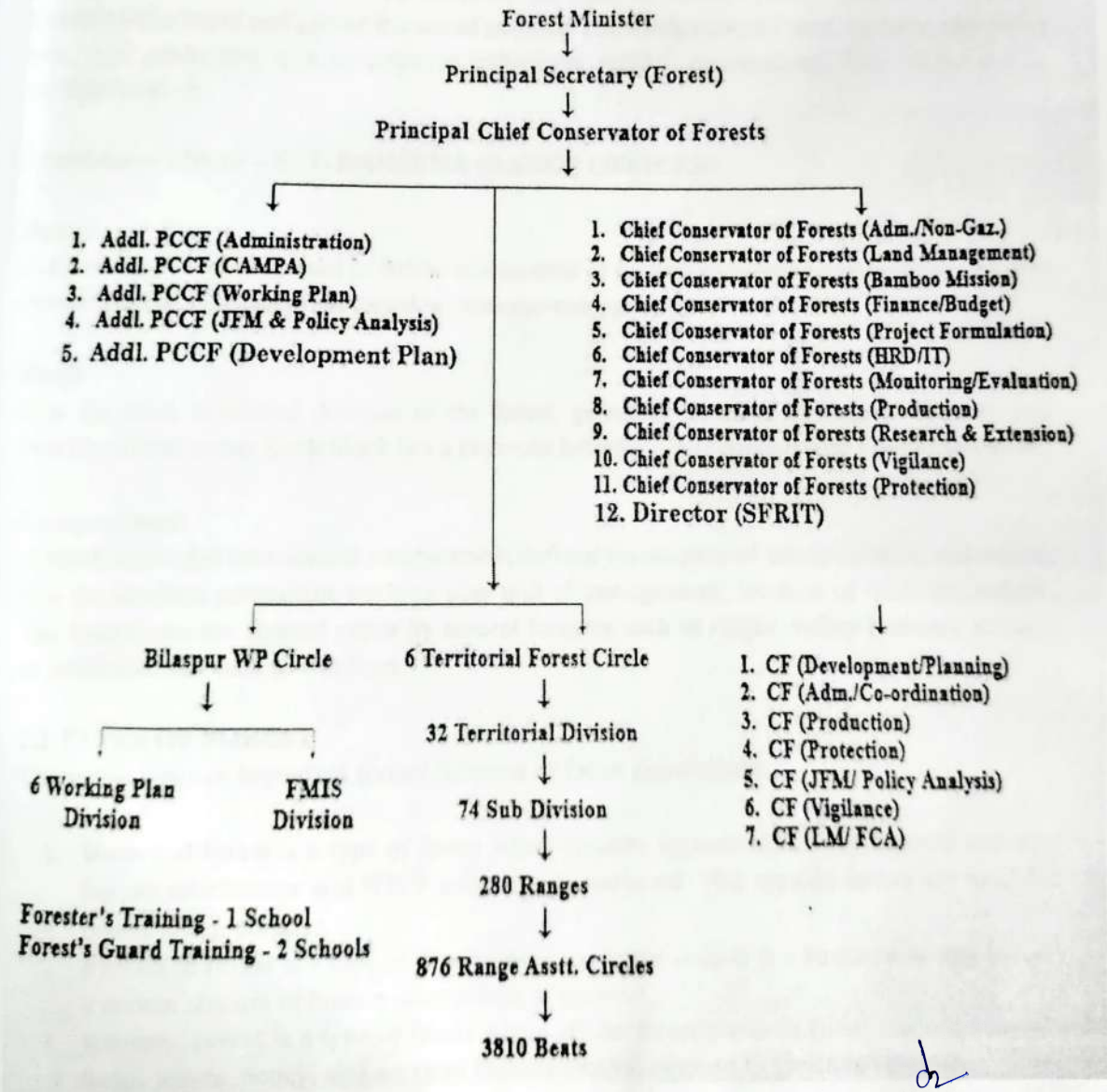
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CHAPTER-1

1. CHHATTISGARH FOREST DEPARTMENT: INTRODUCTION

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. The whole Chhattisgarh Forest is divided into 6 different working circle and circles are divided into coupes and compartments. All 6 working circle have their different management plans as per their requirement. In Chhattisgarh there are 34 forest division and for every division 10 years working plan is made.



ADMINISTRATIVE SETUP OF FOREST DEPARTMENT

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Village Attachment Report

Socio-Economic Survey Report Of Ghess Village, Bargarh, Odisha, 768034

Submitted for partial fulfilment of requirement

For the Degree of

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(SESSION – 2021-22)

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This is to certify that the Village Attachment Report entitled: **"SOCIO-ECONOMIC VILLAGE SURVEY OF VILLAGE GHESS, BARGARH, ODISHA"** has been submitted For the partial fulfilment of Degree of **Bachelor of Science in Forestry** to the **Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya** , Bilaspur, Chhattisgarh carried out by **Mr. AMIYA RANJAN MAHANANDA of B.Sc. Forestry, VIIIth semester student (Roll no – 18007008)** under my guidance and Supervision..

His work was appreciable and satisfactory .I wish him success in future academic endeavours.

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I hear by declare that the present Village Attachment Report entitled :*"SOCIO-ECONOMIC SURVEY OF VILLAGE – GHESS , BARGARH , ODISHA"* interpretation for part of it has not been submitted for any degree or diploma of any University . The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are authentic to my knowledge.

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Chapter-1
SOCIO-ECONOMIC VILLAGE SURVEY

Socio-economic survey is an assessment between the socialand economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance ofresources for households and villages also. Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is basedon income, education level, occupation, social status, perceptionand various other factors.

DEINITION

Social economics is a branch of economics that focuses on the relationship between social behaviour and economics, and itexamines how social norms, ethics and other social philosophiesthat influence consumer behaviour shape an economy, and uses history, politics and other social sciences to examine potential results from changes to society or the economy. Socioeconomicsrefers broadly to the "use of economics in the study of society". In general, it studies the relation of economics to social values.

OBJECTIVES

The main aim of the work, i.e. the overall purpose of the study was clear and concisely defined. The overall study objective wasto know about the socio-economic status of the Ghess, to identifyvarious obstacles in growth, development process and to formulate a broad planning and development framework. The development of area depends upon Socio-Economic setting of thearea. The basic aims and objectives of our survey were:-

1. To collect information on demographics: population, age distribution, residence patterns and ratio of men to woman.
2. To know about the population growth and their views and consciousness regarding this.
3. To collect data on the local area, it's past and present andvarious problems of Socio-Economic condition.
4. To know about the educational status of the particular villageand reasons of their educational backwardness if any.
5. To know about the transportation and communicationfacilities of the village.
6. To gathered information about energy source: collection offuel wood, use of L.P.G., gas and other fuel related sources.
7. To collect data on different schemes on going in the villageand how much villagers get benefited from Government scheme.
8. To know about the agriculture, livestock and livelihood of thevillagers.
9. To know about the health and hygiene of the villagers andmedical facilities of the area.
10. To know about the domestic production of the villagers.
11. To know that how much people are dependent on forest andtheir product.

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TRAINING REPORT ON INDUSTRIAL TRAINING

Submitted for partial fulfilment of requirement

For the Degree of

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(SESSION – 2021-22)

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His work was appreciable and satisfactory .I wish him success in future academic endeavours.

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Chapter-1

(INTRODUCTION)

1. Industrial Training

Industrial Training refers to the practical training in a company or an industrial environment that helps the students in developing the required skills which will help them in becoming a professional of the future.

PURPOSE

The purpose of Industrial Training is to expose students to real work of environment experience and at the same time, to gain the knowledge through hands on observation and job execution. From the industrial training, the students will also develop skills in work ethics, communication, management and others.

Industrial training is the carefully designed training program under the assistance of the professionals who guides with building exemplary modules. The students are equipped with the practical knowledge and nitty and gritty of technologies. The candidates build skills to sharpen their job acumen.

2. It's Aim & Importance

Aim

The aim of this training is as presented below:-

- To expose students to the working environment of industries on ground level
- To make the student face the pressure and physical burden during that industrial work
- To make the student understand how to handle pressure , real life management skills and the process of manufacturing , storage , marketing , collection of raw materials .
- To make the students understand the problems faced by a particular industry in a certain area.

Importance

Industrial Training helps students to develop their skills in the application of theory to practical knowledge.

Industrial training helps to develop the skills and techniques which are directly relevant to their desired goals.

Industrial Training also increases students' responsibility and good work habits.

3.Objectives

The objectives of industrial training are:

To provide students the opportunity to test their interest in a particular career before permanent commitments are made.

To develop skills in the application of theory to practical work situations.

To develop skills and techniques directly applicable to their careers.

The objective of industrial training is to give the student supervised opportunities to experience the essential practical tasks emphasised in their professional study and also to provide opportunities to apply their acquired skills and knowledge in working life.

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4.Site selection

As Raigarh is the nearest working environment from my home I choose the industries within Raigarh for my industrial training.

Moreover I choose the above 3 industry due to the following aspects:-

* They were more cooperative, friendly and best suited for my industrial training objectives .

* As my Aim was to work with forest based industry directly or indirectly so I choose the Paper and Pulp industry in Raigarh.

* As a typical saw mill comprises logging, transporting, sawing , manufacturing, marketing I choose the Phatte saw mill in Chote bhandar in Raigarh.

* As Tribal art and culture is a part of forest related conservation indirectly I choose the Dhobilal Jhara Silp Kala, Ektal, Raigarh.

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Village attachment report

Socio-Economic Survey of Ramtala Village,Bilaspur(C.G)

Submitted for partial fulfillment of requirement
for the Degree of
Bachelor of Science in Forestry

(Session 2021-22)

Supervised by:

Dr.Gunjan Patil
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Her work was appreciable and satisfactory.I wish her success in future academic endeavour.

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: **"Socio-Economic Survey of Ramtala Village ,Bilaspur ,Chhattisgarh"** interpretation or part of it has not been submitted for any degree or diploma of any University.The source of material and all the assistance received during the course of investigation have been duly acknowledged.All the records and data given in the report are authentic to my knowledge.

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Chapter-1

Introduction

More than 75% about of the population in our country have settled in rural areas where the problem of poverty, unemployment & improper living condition prevail & have persisted for long.these problem have not attained the adequate importance in policy made by government, though there is some progress seen in the economic condition of villages but the progress in education in not so acceptable.

Recently we are witnessing some of the policies which may play role in transforming the rural life.This has become possible because of quality data collection with the help of socio-economic surveys of villages.

Socio-economics is the social science that studies how economic activity affects and is shaped by social processes. In general it analyzes how modern societies, progress stagnate, or regress because of their local or regional economy.

Socio-economic survey is an assessment between the social and economic habits of the society.Socio-economic links the financial and social issues together.These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and avillages.Also,Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to resolve issues. Socio-economic status is based on income ,education level ,occupation ,social status ,perception and various other factors.

Socio economic survey is a statistical data on household expenditure and income as well as other data on the status of housing individual and house characteristics and living condition according to Dr.Vikram Singh ,Department of Social work, GGV

Survey is a research method used for collecting data from a predefined group accordig to Dr. Dilip Bande, Department of Rural Technology,GGV

Importance of Socio-economic Survey

Socio economic survey helps us get data about

- Social Status of people at the Community
- Demographic profile of the Society
- Educational Status and Literacy rates
- Culture and Customs of selected area
- Economic status of the selected society

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Report

on

"SOCIO ECONOMIC SURVEY OF VILLAGE PONDI"

SUBMITTED FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENT OF THE BACHELOR DEGREE OF SCIENCE IN FOESTRY

ACADEMIC SESSION : 2021-22

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SOCIO ECONOMIC SURVEY OF VILLAGE - PONDI (KALA)

INTRODUCTION-

DURATION - **19 JAN 2022 to 30 JAN 2022.**

A family's socioeconomic status is based on family income, education level, parental occupation, and social status in the community such as contacts within the community, group associations, and the community's perception of the family. Families with high socioeconomic status often have more success in preparing their young children for school because they typically have access to a wide range of resources to promote and support young children's development. They are able to provide their young children with high-quality child care, books, and toys to encourage children in various learning activities at home. Also, they have easy access to information regarding their children's health, as well as social, emotional, and cognitive development. In addition, families with high socioeconomic status often seek out information to help them better prepare their young children for school.

Socioeconomics is the social science that studies how economic activity affects and is shaped by social processes. In general it analyses how societies progress, stagnate, or regress because of their local or regional economy, or the global economy.

The term 'Social economics' may refer broadly to the "use of economics in the study of society." More narrowly, contemporary practice considers behavioural interactions of

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SUBMITTED FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENT OF THE BACHELOR DEGREE OF SCIENCE IN FOESTRY

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1. INDIAN FOREST

Forests are the green lungs of the nation and provide various ecological services like clean air, water, maintenance of soil-moisture regime by checking soil erosion etc. Forests maintain environment stability and ecological balance. Natural forests with the vast variety of flora and fauna are hub of biodiversity. India is endowed with rich forest types like Tropical Wet Evergreen Forests, Tropical Moist Deciduous Forests, Tropical Dry Deciduous, Sub Tropical Dry Evergreen Forests, Himalayan Moist Temperate Forests, Sub-Alpine and Alpine Scrub Forests etc.

o National Forest Policy of India, 1988 envisages a goal of achieving 33% of geographical area of the country under forest and tree cover.

o According to ISFR 2019 the total forest cover of the country is 7,12,249 sq km which is 21.67% of the geographical area of the country.

o The tree cover of the country is estimated as 95,027 sq km which is 2.89% of the geographical area.

o The total Forest and Tree cover of the country is 8,07,276 sq km which is 24.56% of the geographical area of the country.

Forest cover is classified into three density classes viz.

o Very Dense Forest (canopy density >70%) which is 99,278 sq km that is 3.02% of geographical area.

o Moderately Dense Forest (canopy density 40% to 70%) which 3,08,472 sq km that is 9.38% of geographical area of the country.

o Open Forest (canopy density 10% to 40%) which is 3,04,499 that is 9.26% of geographical area of the country .

2. Forest in Chhattisgarh

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ACADEMIC SESSION : 2021-22

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(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)
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CERTIFICATE

I have great pleasure in certifying that Mr. Aryan Pandey D/o Mr. Jugal Kishor Pandey is a regular student of B.Sc Forestry VIII[th] semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences. He has completed field training entitled **"Industrial Training"** under my guidance.

I wish him all success in his future academic endeavours.

Dr. Gunjan Patil

Assistant Professor

Signature and Date

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DECLARATION

I hereby declare that the field training entitled **" Industrial Training"** submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me with Forest Department and has not been submitted elsewhere for the award of any other degree. The facilities, cooperation and the assistance received during the field training is duly acknowledged.

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3.	Bagh van vatika (Donga Nala)
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1. SAW MILL

DATE -	5/04/2022

Saw Mill

- There are two definitions of a sawmill. One is a sawmill being the location where lumber milling takes place. It encompasses the entire area, including the log sort yard, the milling machines, the eventual sorting and storage area, and the administration and maintenance areas as well.
- The other sawmill definition is the actual sawing or cutting machine that turns a round log into square timbers. In sawmill industry terms, that core machine is called a head rig. However, a head rig needs a support system of complicated machinery for it to function as a sawmill. Perhaps the best sawmill definition is it's a complete system turning logs into lumber.

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Dhan ji Bhai Patel Saw Mill - Mangla Bilaspur

- On the day of training we want to a saw mill which is located in mangala Bilaspur.
- There we learned a lot about saw mills, machines and there functions which are used there
.
- They use mainly Babul , Sarai , Kadhi for cutting logs and making Tables , chairs, sofa's and other furnitures.
- Nilgiri is used for Centring or for making 'ballis'
- This trees/ logs are sold at Kota Depot in aunction .
- The machines and there functions are as Follows –

1. Belsa machine/ saw machine – This machine is used for cutting logs but it requires more man power as it has small size compared to another machines
2. Trolly machine – This machine is also used for cutting logs but it requires less man power as it has larger size and it is convenient to use
3. Beat cutter – This machine is used for cutiing logs into beats which is used for furnitures.
4. Band saw – This machine is used for wood working , lumbering and also cutting logs into smaller pieces for use in furniture
5. Hole wood – Its consist of a drill for making or drilling in a wood or making holes in wood of different sizes for different uses.
6. Blade harder – This machine is used for making blades sharp after they got blunt by continuous use in different machines
7. Weighing machine – It is used for weighing different logs and small pieces of wood for selling

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VILLAGE ATTACHMENT REPORT

Socio-Economic Survey of Bemtatoli Village, Jashpur (C.G.)

Submitted for partial fulfilment of requirement for the Degree of

Bachelor of Science in Forestry

(Session-2021-22)

Under the Supervision of:

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Assistant Professor
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Submitted By:

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

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CERTIFICATE

This is to certify that the Village attachment report entitled: **"Socio-Economic Survey of Bemtatoli village, Jashpur, Chhattisgarh"** has been submitted for the partial fulfilment of Degree of **Bachelor of Science in Forestry** to the Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh was carried out by **Mr. Atish Panna, B.Sc. Forestry VIII Semester** (Roll no.-18007011) under my supervision.

His work was appreciable and satisfactory. I wish him success in future academic endeavours.

Supervisor

Dr. Gunjan Patil

Assistant professor

Department of Forestry, Wildlife and Environmental Science

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: "Socio-Economic Survey of Bemtatoli Village, Jashpur, Chhattisgarh" interpretation or part of it has not been submitted for any degree or diploma of any university. The source of material and all the assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are authentic to my knowledge.

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Chapter-1

Introduction-

Socio-economics - Socio economics is the social science that studies how economic activity affects and is shaped by social processes . In general it analyzes how modern societies ,progress , stagnate , or regress because of their local or regional economy.

What is a Socio-Economic Survey?

Socio-economic survey is an assessment between the social and economic habits of the society.Socio-economic links the financial and social issues together.These surveys are designed to collect information regarding available local resources,resource use and management system and relative importance of resources for households and villages.Also,Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it.Socioeconomic status is based on income,education level,occupation,social status,perception and various other factors.

Need of Socio-Economic Survey-

Socio-Economic survey helps us assess following things-

- Social Structure and Status of people in selected area.
- Economy and economic condition of selected area and it's people
- Educational Status of selected area
- Cultures and Customs of Selected area
- Demographic Profile of the Society
- Positive and Negative Aspects of the selected area.

Aim Of the Survey-

The main aim of the Survey was to collect information about the Social,Political and Economic status of the selected village,find out positive and negative aspects of that village and to propose ways to solve problems in village.Through this survey it was aimed to formulate a broad plan of development which will be sustainable for the people of village and village itself .Students were appointed as surveyors so that they can get an exposure to the methodologies of Socio-Economic Survey and village lifestyle or livelihood in practical way.

Objectives of Survey-

The overall study objective was to know about the socio-economic status of the village-Bematatoli. The development of area depends upon Socio-Economic situation of the area. The basic objectives of the survey was:-

1. To collect information on demographics, population, residence patterns and ratio of men to woman.

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2. To know about the population growth and their views and consciousness regarding this.
3. To collect data on the local area, it's past and present and various problems of Socio-Economic condition.
4. To know about the educational status of village and issues related if any.
5. To know about the transportation and communication facilities of the village.
6. To gather information about energy sources.
7. To collect data about on going Govt. Schemes in the village and its effectiveness.
8. To know about the agriculture, livestock and livelihood of the villagers.
9. To know about the health and hygiene of the villagers and medical facilities of the area.
10. To know about the domestic production of the village.
11. To know about earning sources in the village.
12. To know about the dependence of villagers on forest and forest resources.
13. To collect data about crime rates.

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A
Report
On
"Industrial Training"

(Session-2021-22)

Submitted for partial fulfilment for the requirement of Bachelor of Science in Forestry

Under the Supervision of:

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I have great pleasure in certifying that Mr. **Atish Panna** s/o Mr. **Ajit Panna** is a regular student of **B.Sc. Forestry VIII** Semester during the session of **2021-22** of **Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur**. He has completed this online entitled **"FOREST BASED INDUSTRIAL TRANING"** during this semester under my guidance.

I wish him all the success in his academics.

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DECLARATION

I hereby declare that the project work entitled "Report on Industrial Training" submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of **Dr. Gunjan Patil, Assistant Professor** and **Dr. Mary Ekka** and this project work has been performed for the award of Bachelors degree in Forestry.

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Chapter 1

Saw mill and Timber Market

INTRODUCTION: - The wood industry or timber industry is the industry concerned with forestry, logging, timber trade, and the production of primary forest products and wood products and secondary wood products like wood pulp for the pulp and paper industry. The demand for timber is estimated to increase from 58 million cubic meters in 2005 to 135 million cubic meter in 2020. In Chhattisgarh major timber species are Babool(*acacia nilotica*), sal(*shorea robusta*),teak(*tectona grandis*), shesham(*dalbergia latifolia*), Bijasal(*pterocarpus marsupium*), Deodar (*Cedrus deodara*) amd many more.

We had a visit at saw mill and retail shops of wood products under our industrial training attachment. The two saw mills were DHANJI BHAI SAW MILL , Mangla, Bilaspur and Aara Mill at Shanichari Bazar, Bilaspur where we gained knowledge on different species of wood their uses and identification, types of machineries used, steps from auction of timber at wood depots to it processing and final products.

Sawmill or lumber mill is a facility where logs are cut into lumber. Modern sawmills use a motorized saw to cut logs lengthwise to make long pieces, and crosswise to length depending on standard or custom sizes.



Fig: 1 DHANJI BHAI PATEL SAW MILL

TYPES OF TIMBER INDUSRTIES

1. Wooden handicrafts
2. Pulp and paper
3. Plywood industries
4. Veneer industries

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In

Forestry

(Session-2021-22)

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Nursery

Nursery is defined as an area where plants are raised for eventual planting out. It comprises of nursery beds,paths irrigated channels etc. Nursery bed is defined as a prepared area in a nursery where seed is sown or into which seedlings or cuttings are raised. On the bases of kind of plants growing in them nursery beds are classified into seedling beds and transplant beds, seedlings, beds are those nursery beds in which seedlings are raised either for, transplanting in other beds or for planting out. A nursery which has only seedling bed.

INTRODUCTION –

The need for forest nurseries emphasizes an important difference between agriculture and forestry. The farmer sowing the seeds where his crop is to grow. The forester in most cases slows seeds and raises seedlings in a nursery and then plants them on land to be afforested.

Objectives of Nursery:-

It occupies an important place in artificial regeneration. The following objects for which nursery is generally made, clearly bring out its importance.

1. Planting of nursery grown plants is the surest method of artificial regeneration on poor and barren sites.
2. Success of road side avenue plantations depends largely on planting tall and sturdy plants which can be only obtained from nursery.
3. Some important species do not seed ever year. Plantations of these species can be raised annually, only by sowing all available seeds in nursery to raise seedlings to be planted out various years.
4. Some species grow very slowly and if the seeds of these species are sown directly in plantation, the seedlings are most likely to-be suppressed by weeds and ultimately killed. Therefore, slow growing spices are generally raised in nursery and planted out, only when the seedlings are not liable to be damaged by weeds.
5. Plantations of some species, when raised by direct sowing are not so successful when raised by transplanting their seedlings. In such cases, nursery is an essential part of artificial regeneration to these species.

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GURU GHASIDAS VISHWAVIDYALAYA, KONI, BILASPUR, CHHATTISGARH

(A CENTRAL UNIVERSITY)

A

Report

on

"SOCIO-ECONOMIC SURVEY ATTACHMENT – REPORT"

SUBMITTED FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENT OF THE BACHELOR DEGREE OF SCIENCE IN FOESTRY

ACADEMIC SESSION : 2021-22

AYUSH CHANDRAKAR
B.SC FORESTRY VIIITH SEMESTER
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I have great pleasure in certifying that Mr. Ayush Chandrakar S/o Mr. Manoj Chandrakar is a regular student of B.Sc Forestry VIIIth semester during the session of 2020-21 of Department of Forestry, Wildlife and Environmental Sciences. She has completed field training entitled **"Socio economic survey Attachment Report"** under my guidance.

I wish him all success in him future academic endeavours.

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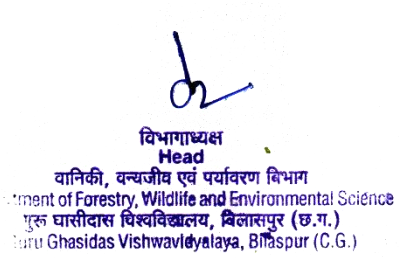
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- **CHAPTER – 1 (INTRODUCTION)**
  - SOCIO-ECONOMIC SURVEY
  - Definition
  - Importance of Socio-Economic survey
  - Village
  - Objectives of survey
  - Aim of the survey
  - Methodology adopted for survey
  - GEOGRAPHY AND SOCIAL STRUCTURE

- **CHAPTER – 2 (VILLAGE PORTRAIT)**
  - General profile of the village
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  - Problems & Suggestions



CHAPTER – 1

INTRODUCTION

This report is based on the results of fieldwork carried out in "Pircha Tola" from 18/01/2022 to 4/02/2022

- **SOCIO-ECONOMIC SURVEY**:-

  - Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, social status, perception and various other factors.

- **Definition**

  A socio economic survey is regarded as one of the most important source os statistical data on household expenditure and income as well as other data on the status of housing, individual and household characteristics and living conditions.

- **Importance of Socio-economic Survey**

  - Socio-economic observation helps to get the details about
  - Social, political and economic aspects of a territory.
  - Cultures and customs of the village.
  - Regarding the educational status and literacy rate.
  - Demographic profile of the society.
  - Provides information about health and medical conditions.

- **Area considered** –

  - In view of the corona period, the area was selected keeping in view the corona protocol; the area near it was selected.

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GURU GHASIDAS VISHWAVIDYALAYA, KONI, BILASPUR, CHHATTISGARH

(A CENTRAL UNIVERSITY)

A

Report

on

"FOREST ATTACHMENT – REPORT"

SUBMITTED FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENT OF THE BACHELOR DEGREE OF SCIENCE IN FOESTRY

ACADEMIC SESSION : 2020-21

AYUSH CHANDRAKAR
B.SC FORESTRY VIIITH SEMESTER
ROLL. NO. : 18007012
ENROLLMENT NO. : GGV/18/6065

DR. GUNJAN PATIL
ASSISTANT PROFESSOR
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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

CERTIFICATE

I have great pleasure in certifying that Mr. Ayush Chandrakar S/o Mr. Manoj Chandrakar is a regular student of B.Sc Forestry VIIIth semester during the session of 2020-21 of Department of Forestry, Wildlife and Environmental Sciences. She has completed field training entitled **"forest Attachment Report"** under my guidance.

I wish him all success in him future academic endeavours.

Dr. Gunjan Patil

Assistant Professor

(Supervisor)

Signature and Date

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DECLARATION

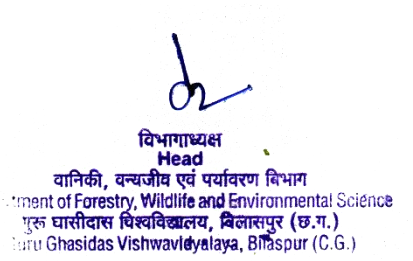
I hereby declare that the field training entitled **" Forest Attachment – Report"** submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me with Forest Department and has not been submitted elsewhere for the award of any other degree. The facilities, cooperation and the assistance received during the field training is duly acknowledged.

Ayush Chandrakar

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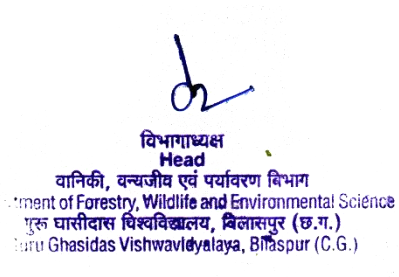
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1.	**Forest administration**
2.	Forest in Chhattisgarh
3.	Working plan
4.	Nursery
5.	Honey processing
6.	Regional geometric center
7.	Conclusion



• FOREST ADMINISTRATION

The forest administration is the body responsible for implementation of forest policy and forestry issues in a particular country through rules, legislation and financial that means information and forest programs, the forest policy aims to promote the sustainable management and use of forest land resources.

State Forestry Department:

The State Forestry Department is responsible for the administration and regulation of forest harvesting, forest revenue collection and development of the state forest resources. The Department also plans and coordinates the development of wood-based industries. The State Forestry Department is divided into Forest Operations and Forest Development Divisions and supported by District Forest Offices.

Development Divisions and supported by District Forest Offices.

Forest Development Division:

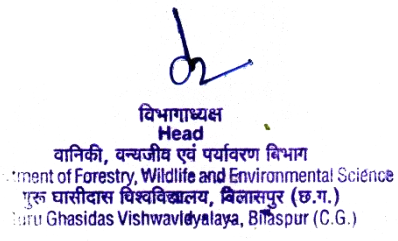
Responsible for planning, implementing and monitoring of forest management and development activities, including biodiversity conservation, ecotourism development and forest rehabilitation as well as the preparation and implementation of the State Forest Management Plan.

District Forest Office:

Responsible for administration, controlling forest harvesting, forest revenue collection and forest law enforcement. The office is also responsible for implementing forest management and development activities including the management of forest eco-park and state forest park.

Forest administration management:

Forest management is the process of planning and implementing practices for the stewardship and use of forests and other wooded land to meet specific environmental, economic, social and cultural objectives. It deals with the overall administrative, economic, legal, social, technical and scientific aspects related to natural and planted forests. It may involve varying degrees of deliberate human intervention, ranging from actions aimed at safeguarding and maintaining forest ecosystems and their functions, to those favoring specific socially or economically valuable species or groups of species for the improved production of forest goods and services.



DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCES

GURU GHASIDAS VISHAWAVIDYALAYA, KONI, BILASPUR, CHHATTISGARH

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A

Report

on

"INDUSTRIAL TRAINING ATTACHMENT – REPORT"

SUBMITTED FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENT OF THE BACHELOR DEGREE OF SCIENCE IN FOESTRY

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I wish him all success in him future academic endeavours.

Signature

Dr. Gunjan Patil

Assistant Professor

(Supervisor)

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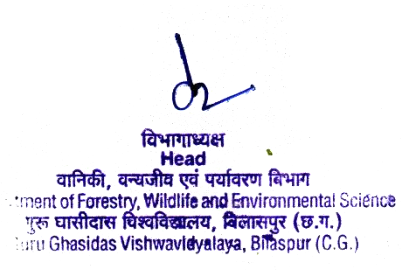
I hereby declare that the field training entitled **" industrial training Attachment Report "** submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me with Forest Department and has not been submitted elsewhere for the award of any other degree. The facilities, cooperation and the assistance received during the field training is duly acknowledged.

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- *CONTENT*

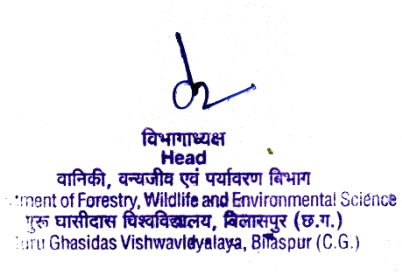
- **INTRODUCTION**
  - **DEFINATION**
  - **FOREST PRODUCTS**

- **HERBAL DRUG PROCESSING CENTER DONGANALA**
  - **WHAT IS HERBAL DRUG**
  - **GENERAL PROFILE**
  - **PROCESSING**
  - **MEDICENE AND THEIR COMPOSITION**

- **NTPC**
  - **INTRODUCTION**
  - **WORKING**
  - **TYPE GAS EMMISION**
  - **IMPACT ON ENVIROMENT**
  - **WASTE TYPE**
  - **CARING ENVIROMENT**

- **SAWMIIL**
  - **INTRODUCTIN**
  - **VISITED MILL**
  - **TREE SP.**

- **CONCLUSION**



➢ *FOREST BAISED INDUSTIES*

Definition –

The industries that use forest raw material are known as forest-based industries. The major forest-based industries are the paper and pulp industry, match wood industry, Timber and Sandalwood industry, Plywood industries, oil, and biodiesel industry, etc. Hence, this is the correct option**.**

List of Top Forest-Based Industries | Forestry

Pulp and Paper Industries: ...

Match Industries: ...

Timber and Sawn Wood Industries: ...

Plywood Industries: ...

Particle Board Industries: ...

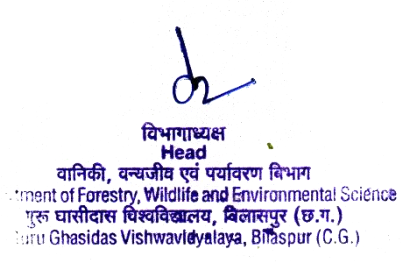
Fibre Board Industries: ...

Dendro Biomass Power Generation Industries: ...

Oil and Biodiesel Industries:

forest product

A **forest product** is any material derived **from** foresrty for direct consumption or commercial use, such as lumber, paper, or fodder for livestock. wood, by far the dominant product of forest, is used for many purposes, such as (e.g. in form of firewood or charcoal) or the finished structural materials used for the construction of building, or as a raw material, in the form of wood pulp, that is used in the production of paper. All other non-wood products derived from forest resources, comprising a broad variety of other forest products, are collectively described as non-wood forest product (NTFP). Non-timber forest products are viewed to have fewer negative effects on forest ecosystem when providing income sources for local community.



DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCE

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR, CHHATTISGARH

A

REPORT ON

"FOREST ATTACHMENT"

SUBMITTED FOR THE PARTIAL FULFILMENT OF THE REQUIREMENT OF BACHELOR OF SCIENCE IN FORESTRY

SESSION 2021-22

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UNDER GUIDANCE OF: -

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ASSISTANT PROFESSOR,

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& ENVIRONMENTAL SCIENCE

SUBMITTED BY:-

BHUMIKA LILHARE

BSC. FORESTRY 8TH SEM

ROLL NO.: -18007014

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(A central university established under Central Universities Act 2009, No. 25 of 2009)

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(A central university established under Central Universities Act 2009, No. 25 of 2009)

CERTIFICATE

I have great pleasure in certifying that **Ms. BHUMIKA LILHARE** D/O **SUKHDEV LILHARE** is a regular student of **B.Sc. Forestry VIII Semester** during the session of **2021-22** of **Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh**. She has completed **"FOREST ATTACHMENT TRAINING" in Bilaspur under Forest Department** during this semester under my guidance.

I wish her all the success in her academics.

Signature & date:

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Dr. GUNJAN PATIL,
Assistant Professor,
Department of Forestry, Wildlife and Environmental Sciences,
Guru Ghasidas Vishwavidyalaya

DECLARATION

I hereby declare that the project work entitled **"Forest Attachment Report"** submitted to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya is record of an original work done by me under the guidance of **Dr. Gunjan Patil** and this project work has been formed for the award of Bachelor of Science Degree in Forestry.

Date:

Place:

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CHAPTER -1

INTRODUCTION

1.1. What is forest?



Forest: - A Forest is a complex ecological system in which tress are the dominant life form.

or

According to UNFCCC, 2001: "Forest is a minimum area of land of **0.05-1.0 hectares** with tree crown cover (or equivalent stocking level) of more than 10-30 per cent with trees with the potential to reach a minimum height of 2-5 meters at maturity in situ. A forest may consist either of closed forest formations where trees of various stories and undergrowth cover a high proportion of the ground or open forest. Young natural stands and all plantations which have yet to reach a crown density of 10-30 per cent or tree height of 2-5 meters are included under forest, as are areas normally forming part of the forest area which are temporarily unstacked as a result of human intervention such as harvesting or natural causes but which are expected to revert to forest.

1.2 TYPES OF FOREST

The major types of important forests in terms of forest department:

1. **Reserved forest:-** is a type of forest where forestry operations are not allowed and also human interference and NTFP collection is restricted. This type of forests are used for conservation purpose.
2. **Protected forest:-** is a type of forest where the forest is used in a sustainable way means a certain amount of human interference is allowed.
3. **Revenue forest:-** is a type of forest where all the forest products (like – wood, flowers, fruits, leaves, honey, etc) are used for commercial purpose to generate revenue.

Types of Indian Forest: - Indian forests perform an important role to make a healthy environment and it reduce air pollutions.

DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCE

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR

A

REPORT ON

"SOCIO-ECONOMIC SURVEY OF PANGAON VILLAGE, SALEKASA, GONDIA, (M.H.)"

SUBMITTED FOR PARTIAL FULFILMENT OF REQUIREMENT FOR THE DEGREE OF BACHELORS OF SCIENCE IN FORESTRY.

SESSION: 2021-22

Under the Supervision of:

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Submitted By:

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G)

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CERTIFICATE

This is to certify that the Village Attachment Report entitled: **"SOCIO-ECONOMIC SURVEY OF PANGAON VILLAGE, SALEKASA, GONDIA, MAHARASHTRA"** submitted for the partial fulfillment of Degree of **Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh** has been carried out by **Ms. BHUMIKA LILHARE** of B.Sc. Forestry, VIII Semester, and Enrollment No. (GGV/18/6068) under my guidance and supervision.

I wish her all the success in her future academic endeavors.

Signature & date:

Dr. GUNJAN PATIL,
Assistant Professor,
Department of Forestry, Wildlife, Environmental sciences,
Guru Ghasidas Vishwavidyalaya.

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

DECLARATION

I hereby declare that the present Village Attachment Report entitled: ***"SOCIO-ECONOMIC SURVEY OF PANGAON VILLAGE, SALEKASA, GONDIA, (M.H.)"*** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

BHUMIKA LILHARE
B.Sc. Forestry VIII SEM.
Roll. No.: 18007014
Enrollment No.: GGV/18/6068

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o Importance of Socio-Economic survey

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o Aim of the survey o Objectives of survey

o Methodology adopted for survey

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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY: -

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socio-economic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 DEFINITION: -

Social economics is a branch of economics that focuses on the relationship between social behaviour and economics, and it examines how social norms, ethics and other social philosophies that influence consumer behaviour shape an economy, and uses history, politics and other social sciences to examine potential results from changes to society or the economy. Socio-economics refers broadly to the "use of economics in the study of society." In general, it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY: -

Socio-economic observation helps to get the details about: -

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

1.4 SOCIO-ECONOMIC ASSESSMENT: -

Socio-economic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors. These aspects and variables could in general be categorized into several categories including economic, demographic, public services, fiscal and social. The social aspects may for instance involve community life as well as social and cultural attitude and values. Community services may meanwhile be concerned with housing and requirements for public services such as water, sanitation, communications, police and fire protection facilities, solid waste disposal as well as health and educational services. Demographic aspects may include population growth structures, distribution and

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...uru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

UNDER GUIDANCE OF:-

Dr. GUNJAN PATIL,

ASSISTANT PROFESSOR

DEPARTMENT OF FORESTRY, WILDLIFE

& ENVIRONMENTAL SCIENCE

SUBMITTED BY:-

BHUMIKA LILHARE,

B.SC. FORESTRY 8th SEM.

ROLL NO. – 18007014

ENROLLMENT - GGV/18/6068

Department of Forestry, Wildlife and Environmental Sciences

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(A central university established under central universities act 2009, No. 25 of 2009)

GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (C.G.)

(A central university established under Central Universities Act 2009, No. 25 of 2009)

CERTIFICATE

I have great pleasure in certifying that **Ms. BHUMIKA LILHARE** D/O **Mr. SUKHDEV LILHARE** is a regular student of **B.Sc. Forestry VIII Semester** during the session of **2021-22** of **Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh**. She has completed training entitled **"FOREST BASED INDUSTRIAL TRAINING" in Sawmill, Donganala Herbal Processing Unit** in Bilaspur during this semester under my guidance.

I wish her all the success in her future academic endeavour.

Signature & date:

Dr. GUNJAN PATIL,

Assistant professor

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Guru Ghasidas Vishwavidyalaya

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DECLARATION

I hereby declare that the online training entitled "**FOREST BASED INDUSTRIAL TRAINING**" submitted to the **Guru Ghasidas Vishwavidyalaya** is record of original work done by me under the guidance of **Dr. Gunjan Patil, Assistant professor, Department of Forestry, Wildlife & Environment Science** and this training report work has been completed for the award of Bachelor degree in forestry. The source of the materials and the assistance received during the online work has-been duly acknowledged.

Signature & Date:-

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CHAPTER 1
INTRODUCTION

Introduction- **Wood** is one of the most sustainable and environmentally favourable construction materials available. This is due to its absorption of carbon dioxide while growing, adaptability as a product and recyclability or use as a biofuel. Wood is the most eco-friendly material we use. Using wood also helps keep carbon out of the atmosphere, helping to mitigate climate change. Trees store carbon dioxide as they grow. After harvest, wood products continue to store much of this carbon. Wood is better for the environment in terms of greenhouse gas emissions, air and water pollution, and other impacts. Coupled with greater wood construction in public and private property developments, this would amount to around 1 million tonnes of carbon dioxide per year. If wood's carbon storage is added to the substitution effect, the calculated saving comes in at 2–4 million tonnes of carbon dioxide per year. It is not good to use wood, because now a days the earth facing a huge problem of deforestation. Using excess wood means cutting down of more trees. This trees are the only hope that provide us oxygen and fulfil our needs. So without trees no oxygen on earth and life is impossible for humans as well as animals on earth. Here is another reason that wood gets termites. So if we use the same wood for many years or months, it would catch termites. Its alternative can be chemically synthesized materials like polystyrene is being widely used now a days.

Humans went into the forest and looked for the best suited tree (or part of a tree) for basic needs. Based on experiences and traditions to develop variety of technologies & uses such as: -

*Burning and Heating

*Shelter, Tent and House Building

*Ship and Building

*Tools and Weapons

*Art and Religion

Major Technical characteristics of Wood from Human Utilization Point of View: -

Favourable:-

- ✓ Better strength: weight ratio
- ✓ Excellent shock absorbing ability & stiffness
- ✓ Inert to chemicals (mild acids).
- ✓ Bad conductor of heat & electricity.
- ✓ Attractive texture, figure, color
- ✓ Easy to work with simple tools.

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Department of Forestry, Wildlife and Environmental Sciences

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BILASPUR -495009, CHHATTISGARH

REPORT
ON
INDUSTRIAL TRAINING
(Session: 2021-22)

Submitted for partial fulfillment of requirement
For the degree of
Bachelor of science
In
Forestry

Supervised by:
Dr.Gunjan Patil
Assistant Professor
Department of forestry,
Wildlife & Environmental
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Submitted by:
Mr. Deependra Pratap singh
B.Sc. Forestry VIIIth Sem
Enrl no: GGV/18/6071
Roll no.- 18007015

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CERTIFICATE

I have great pleasure in certifying that Mr. Deependra Pratap Singh S/o Late KS Portey is a regular student of B.Sc Forestry VIII[th] semester during the session of 2020-21 of Department of Forestry, Wildlife and Environmental Sciences. He has completed field training entitled **"A report on Industrial training.** Under my guidance.

I wish him success in future academic endeavors.

Dr. Gunjan Patil
Assistant Professor
(Supervisor)

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

Signature and Date

DECLARATION

I hereby declare that the field training entitled **"A report on Industrial training"** submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me with Forest Department and has not been submitted elsewhere for the award of any other degree. The facilities, cooperation and the assistance received during the field training is duly acknowledged.

DEEPENDRA PRATAP SINGH

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CHAPTER.1

SAW MILL : DHANJI BHAI PATEL




Saw mill is a facility where logs are cut into Lumber. It is a establishment where timber is sawn into plank etc. Early on, wood was cut into Lumber by hand, but now most sawmills are equipped with different types of machines that cut wood quickly and easily.

It is simpler and faster to do the work with the machinery, and the cost is less as well. Saw mill use use different types of motorized saw to cut logs Lenghtwise and crosswise depending on the standard or custom size.

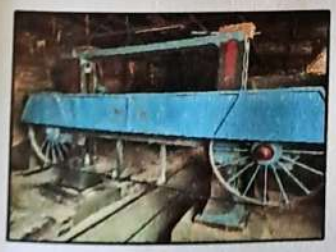
Lumber : Is also known as timber that has been processed into Beams and Planks.

In Dhanji saw mill we saw and learnt about different types of machines which are used to cut wood. That are :

- **Belsa Machine :** Is also known as small machine where woods were cut into halfs means 1log cut into 2 halfes and also usefull in peeling out the surface of wood logs. In belsa machine more man power is required. 2 main workers and 1-2 extra mens are required for adjustment.




- **Trolly Machine :** Is also a cutting machine which has a same function as belsa machine but in this machine more % of woods are cut. And less workers are required to use it. This machine is used for bigger timber.




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DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCESGURU GHASIDAS VISHAWAVIDYALAYA, KONI, BILASPUR, CHHATTISGARH

(A CENTRAL UNIVERSITY)

A

Report

on

"SOCIO-ECONOMIC SURVEY ATTACHMENT – REPORT"

SUBMITTED FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENT OF THE BACHELOR DEGREE OF SCIENCE IN FOESTRY

ACADEMIC SESSION: 2020-21

DEVASHISH YADAV

B.SC FORESTRY VIIITH SEMESTER

NO. : 18007016

ENROLLMENT NO. : GGV/18/6072

DR. GUNJAN PATIL

ASSISTANT PROFESSORROLL.

(SUPERVISOR)

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CERTIFICATE

I have great pleasure in certifying that Mr. Devashish Yadav S/o Mr. Sahesh Ram Yadav is a regular student of B.Sc Forestry VIIIth semester during the session of 2020-21 of Department of Forestry, Wildlife and Environmental Sciences. She has completed field training entitled **"Socio economic survey Attachment Report"** under my guidance.

I wish his all success in his future academic endeavours.

Dr. Gunjan Patil
Assistant Professor
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Signature and Date

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: "SOCIO-ECONOMIC SURVEY OF JHORA VILLAGE, **KORBA, CHHATTISGARH"** interpretation or part has not been submitted for any degree or dipoma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

Devashish Yadav
B.Sc. Forestry 8th sem
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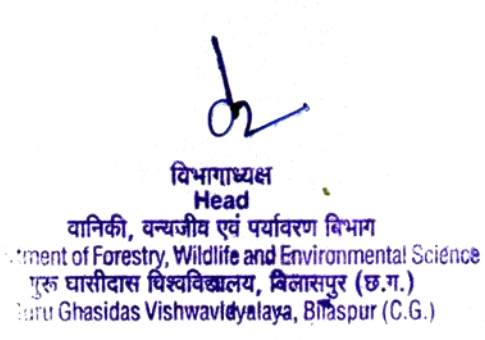
ACKNOWLEDGEMENT

First of all, I would like to thank 'God' who bestowed me with patience and favorable conditions and circumstances to achieve this feat.

I express my profound indebtness to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh for providing me all the necessary facility to complete my project work. I pay my deep regards to **Prof. S. S. Singh**, **Dean, School of Natural Sciences**, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh for his constant help and academic encouragement.

I express my deep regards to **Dr K.K CHANDRA ,Head**, Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh for their valuable guidance and comments.

"Dr.Rashmi Agrawal, Dr.S.S. Dhuria, Dr.S.C Tiwari" Associate Professor, **"Dr.Garima Tiwari, Dr.Gunjan Patil, Dr.Bhavna Dixit, Dr.Ajay Kumar Singh, Dr. Brijendra Pratap Singh, Dr.Atul Kumar Bhardwaj, Dr. Gavrav Kumar Padwar, Dr. Sharda Dubey, Dr.Anupma Mahato, Dr.Arvind Prajapati, Dr.Marry Ekka"** Assistant Professor (ADHOC), Department of Forestry, Wildlife & Environmental Science, GURU GHASIDAS VISHWAVIDYALAYA, Bilaspur Chhattishgarh, For his encouraging direction, analytical abilities, and much-needed critical during the study time.



DEVASHISH YADAV

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o Social Anatomy

o Sex Ratio

o Literacy Rate

o Level of Education

o Household Pattern

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o Source of Energy (Lighting and Cooking)

o Agricultural Practices

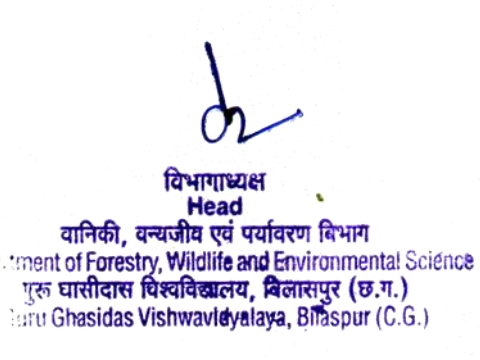
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CHAPTER-1

SOCIO-ECONOMIC SURVEY:-

INTRODUCTION

Socio-economic survey is an assessment between the social and economic habits of the society.Socio-economic links the financial and social issues together.These surveys are designed to collect information regarding available local resources,resource use and management system and relative importance of resources for households and villages.Also,Socio-economic survey and its analysis help to knowabout the problems of the area and steps and plans to solve it.Socioeconomic status is based on income,education level,occupation,social status,perception and various other factors.

DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behavior and economics,and it examines how social norms,ethics and other social philosophies that influence consumer behavior shape an economy,and uses history,politics and other social sciences to examine potential results from changes to society or the economy.Socioeconomics refers broadly to the"use of economics in the study of society."In general,it studies the relation of economics to social values.

IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social,political and economic aspects of a territory.

2.Cultures and customs of the village.

3.Regarding the educational status and literacy rate.

4.Demographic profile of the society.

5.Provides information about health and medical conditions.

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SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors.These aspects and variables could,in general,be categorized into several categories including,economic,demographic,public services,fiscal and social.The social aspects may,for instance,involve community life as well as social and cultural attitude and values.Community services may meanwhile be concerned with housing and requirements for public services such as water,sanitation,communications,police and fire protection facilities,solid waste disposal as well as health and educational services.Demographic aspects may include population growth structures,distribution

SOCIO-ECONOMIC SURVEY OF BHELWATIKRA VILLAGE, BILASPUR, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

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Date:

CERTIFICATE

This is to certify that the Village Attachment Report entitled: ***"SOCIO-ECONOMIC SURVEY OF BHELWATIKRA VILLAGE, RAIGARH, CHHATTISGARH"*** submitted for the partial fulfillment of Degree of ***Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Ms. Divya Dansena of B.Sc. Forestry, VIIIth Semester, and Enrollment No. (GGV/18/6077) under my guidance and supervision.***

I wish her all the success in her future academic endeavors.

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5/05/2021

(Dr. Bhavana Dixit)
Supervisor

DECLARATION

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Divya

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...ru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

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CHAPTER-1

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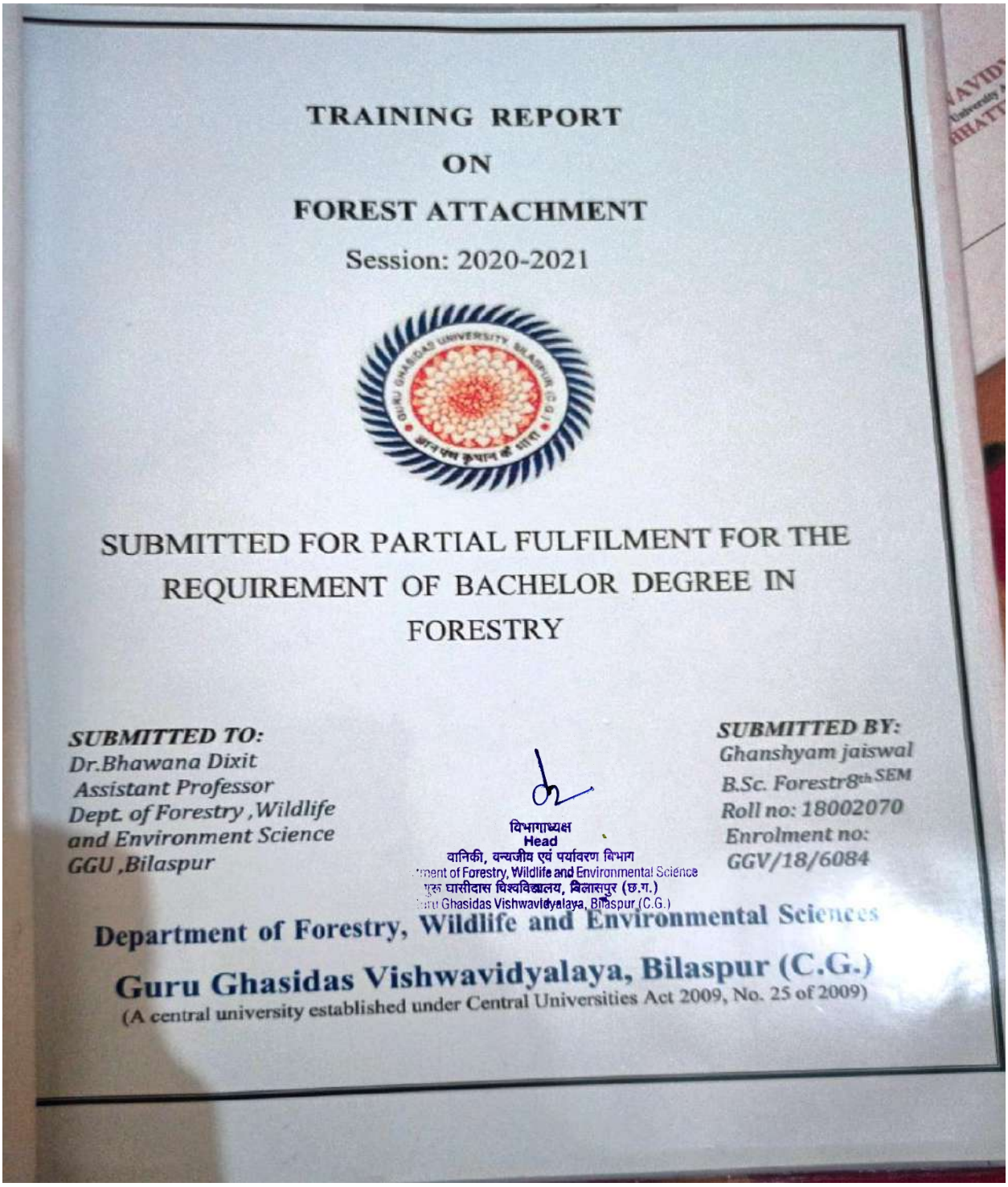
4.Demographic profile of the society.

5.Provides information about health and medical conditions.

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Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors.These aspects and variables could,in general,be categorized into several categories including,economic,demographic,public services,fiscal and social.The social aspects may,for instance,involve community life as well as social and cultural attitude and values.Community services may meanwhile be concerned with housing and requirements for public services such as water,sanitation,communications,police and fire protection facilities,solid waste disposal as well as health and educational services.Demographic aspects may include population growth structures,distribution and density.Similarly,economic factors may include general characteristics,structures and changes various economic activities and employment.

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TRAINING REPORT
ON
FOREST ATTACHMENT

Session: 2020-2021

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR DEGREE IN FORESTRY

SUBMITTED TO:
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SUBMITTED BY:
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Roll no: 18002070
Enrolment no: GGV/18/6084

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CERTIFICATE

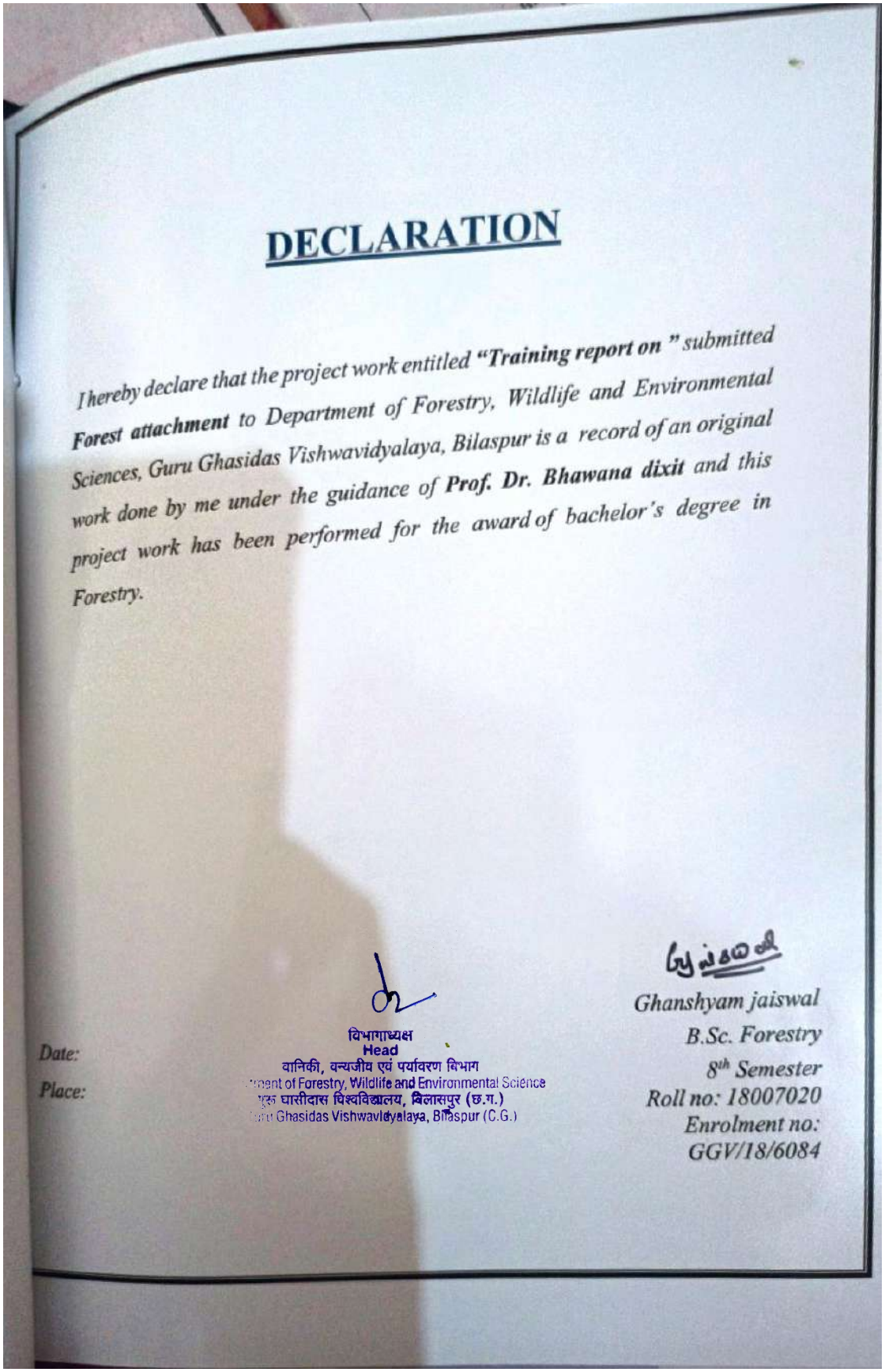
I have great pleasure in certifying that ***Mr. Ghanshyam jaiswal*** *s/o* ***Mr. Ramchandra jaiswal*** *is a regular student of B.Sc. Forestry 8th Semester during the session of 2020-2021 of Department of Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur. He has completed this Computer Application training entitled* ***"Training report on Forest attachment"*** *during this semester under my guidance.*

I wish him all the success in his academics.

4/05/2022

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INTRODUCTION
NURSERY MANAGEMENT

Nursery refers to an area from which seedlings are raised for eventual planting out.

Nursery management: -nursery management may be defined as the sum of the activities performed for the successful production care and marketing of different planting material.

DETAILS ABOUT VISITED NURSERY: -

Fadahakhar nursery which is 9 km. away from Nehru chowk Bilaspur.

Total area of fadahakhar nursery is 2 hectares.

Total 3 staff work in this nursery and also 10 workers are work under mahatma Gandhi NREGA.

IMPORTANCE OF NURSERY: -

Establishment of nurseries is important for the following reason:

- Production of proposed size and age of seedling.
- Production of the desired number of seedlings.
- Production of healthy plants of superior quality.
- Production of desired plants at the right time.
- Production of seedlings at cheaper cost.

PREPARATION OF NURSERY-

Selection of site

1. The nursery area should be nearer to the water source.
2. Generally, the location should be partially shaded i.e. under the trees. If not, artificial shade is to be provided.
3. It should be well protected from animals.
4. Proper drainage facilities should be provided.

Selection of soil

A medium textured, loam (or) sandy loam soil is preferred. Soil should be rich in organic matter. Soil depth should be preferably by 15-25 cm.

Preparation of nursery beds

A nursery bed is a specially prepared portion of land put aside for raising seedlings.it acts as temporary home for young plants until they are eventually planted in a permanent garden seeds are swn on raised

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TRAINING REPORT

ON

INDUSTRIAL TRAINING

Session: 2020-2021

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR DEGREE IN FORESTRY

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Sawmill

Sawmill is the small scale industry, in which the log are cut into lumbers and later lumber is cut into boards. In industrial terms sawmill is a wood based industry where large pieces of wood are cut into small and useable sizes, which are then used for making various household articles like bed, table, chairs and sofas etc.

Process at Sawmill

- Lumber are purchased by sawmills at the auction conducted by forest Department.
- Sometime standing trees are also auctioned.
- After trees are selected for harvest, the next step in logging is felling the trees, and bucking them to length.
- Branches are cut off the trunk. This is known as lambing.
- Logs are taken by logging truck, rail or a log drive to sawmill.
- Logs are scaled either on the way to the mill or upon arrival at the mill.
- Debarking removes bark from the logs.
- Decking is the process for sorting the logs by species, size and end use (Lumber, plywood, chips).
- The head saw, head rig or primary saw, breaks the log into cants (Unfinished logs to be further processed) and flinches (unfinished planks) with a smooth edge.
- Edging will take the flitch and trim off all irregular edges leaving four-Sided lumber. Trimming squares the ends at typical lumber lengths.
- Drying removes naturally occurring moisture from the lumber. This can be done with Seasoning.
- Planning smooth the surface of the lumber leaving a uniform width and Thickness.
- Shipping transports the finished lumber to market.

Sawmill Machines

Many machines which we saw which are used in the saw mill are listed below:

1. Trolley saw
2. Band saw
3. Power saw
4. Ramda machine

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SOCIO-ECONOMIC SURVEY OF KUWA VILLAGE, BILASPUR, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for Partial Fulfilment of Requirement

For the Degree of

Bachelor of Science

In

Forestry

Session: 2021-22

Under the Supervision of:

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Submitted By:

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B.Sc. Forestry VIII Sem.
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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

CERTIFICATE

This is to certify that the Village Attachment Report entitled: ***"SOCIO-ECONOMICSURVEY OF KUWA VILLAGE, TAKHATPUR BILASPUR, CHHATTISGARH"*** submitted for the partial fulfillment of Degree of ***Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr. Ghanshyam jaiswal of B.Sc. Forestry, VIIIth Semester, Student (Roll No. 18007020) under my supervision. His work was appreciable and satisfactory.***

I wish him all the success in his future academic endeavors.

4/07/2022

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: ***"SOCIO-ECONOMIC SURVEY OF KUWA VILLAGE, TAKHATPUR, BILASPUR, CHHATTISGARH"*** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

Ghanshyam Jaiswal

Ghanshyam jaiswal
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INTRODUCTION

This report is based on the results of fieldwork carried out in village **Kuwa** from **22/01/2022** to **30/01/2022**.

It is very important for the help of this survey. We know the actual condition of area that what kind of people lives in this area? It tells us about the economic condition that what types of economic activities are coming out by them. It tells about the social condition of the people in any area. What type of family, how the family survives? It also tells us about their education attainment and self-dependency. What types of crops are growing by them? It helps us to know about their cropping pattern and lives stock rearing tendency. What type of technology they use? Socio-economic data provide us actual situation of that area. Being surveyed we can analysis that what type of improvement can be implied there. We can think about the reforms of that area.

WHAT IS SOCIO-ECONOMIC SURVEY?

Socio - Economic survey is an important part of education to know the status of the people of various societies. The sole aim of the Socio-Economic planning of our country is to transform the socio -economic condition of the people living in the rural areas. Since the independence of our country, more than 65% of the population have settled in rural areas, where the problem of poverty unemployment and improper living condition prevail and have persisted for long these problems have not attained the adequate importance in policy made by the government. Though there is some progress seen in the economic conditions of the people and to bring about development and transformation in Socio-Economic condition and it is necessary to analyses the socio-economic condition of the rural areas and put forward the suggestions for the steps to be taken in order to solve the problems prevailing in the rural areas.

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A
REPORT ON
SOCIO-ECONOMIC SURVEY OF VILLAGE NEVSA

Submitted for partial fulfilment of requirement of the Bachelor of Science in Forestry

(Session-2021-22)

Under the Supervision of:

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DECLARATION

I hereby declare that the project work entitled "**Training report on Village attachment report: Socio-Economic Survey of Village Nevsa**" submitted to Guru Ghasidas Vishwavidyalaya is record of an original work done by me under the guidance of "Dr. Bhavana Dixit" and this project work has been formed for the award of Bachelor of Science Degree in Forestry.

Date: 05/05/22

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❖ **CHAPTER – 1 (INTRODUCTION)**
- Socio-Economic Survey
- Definition
- Importance of Socio-Economic survey
- Socio-Economic assessment
- Aim of the survey
- Objectives of survey
- Methodology adopted for survey
- Village

❖ **CHAPTER – 2 (VILLAGE PORTRAIT)**
- General profile of the village
- Map of the village
- Village infrastructures
- Some tree species recorded from village
- Others
- Problems & Suggestions

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CHAPTER-1
INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behavior and economics, and it examines how social norms, ethics and other social philosophies that influence consumer behavior shape an economy, and uses history, politics and other social sciences to examine potential results from changes to society or the economy. Socioeconomics refers broadly to the "use of economics in the study of society." In general, it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

1.4 SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic

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A REPORT

ON

FOREST ATTACHMENT

SESSION 2021-22

Submitted for Partial Fulfilment of Requirement for the of Bachelor of Science in Forestry

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DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCE

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G)
(A central university established under Central Universities Act 2009, No. 25 of 2009)

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR-495009 (CG)
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CERTIFICATE

This is to certify that the Forest Attachment Report entitled: ***"FOREST ATTACHMENT"*** *submitted for the partial fulfillment of Degree of* ***Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Ms.Harsha Rani Tandan of B.Sc. Forestry, VIIIth Semester, Student (Roll No. 18007022) under my supervision. She's work was appreciable and satisfactory.***

I wish her all the success in her future academic endeavors

.

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5/05/2022

Dr. Bhavna Dixit
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DECLARATION

I hereby declare that the present Forest Attachment Report entitled: **"FOREST ATTACHMENT"** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

Harsha Rani Tandan
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CHAPTER - 1

FOREST ADMINISTRATION

The forest administration is the body responsible for implementation of forest policy and forestry issues in a particular country through rules, legislation and financial that means information and forest programs, the forest policy aims to promote the sustainable management and use of forest land resources.

1.1 State Forest Department:

The State Forestry department is responsible for the administration and regulation of forest harvesting, forest revenue collection and development of the state forest resources. The department also plans and coordinates the development of wood-based industries. The State Forestry department is divided into Forest operations and Forest development divisions and supported by district Forest Offices.

Development Divisions and supported by District Forest Offices.

1.2 Forest Development Division:

Responsible for planning, implementing and monitoring of forest management and development activities, including biodiversity conservation, ecotourism development and forest rehabilitation as well as the preparation and implementation of the State Forest Management Plan.

1.3 District Forest Office:

Responsible for administration , controlling forest harvesting, forest revenue collection and forest law enforcement. The office is also responsible for implementing forest management and development activities including the management of forest eco-park and state forest park.

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REPORT ON

FOREST ATTACHMENT

SESSION 2021-22

SUBMITTED FOR PARTIAL FULFILLMENT OF THE REQUIREMENT OFA BACHELOR'S DEGREE IN FORESTRY WILDLIFE, ENVIRONMENT SCIENCE

UNDER THE GUIDANCE OF
Dr. BHAVANA DIXIT
ASSISTANT PROFESSOR
OF FORESTRY
DEPARTMENT

SUBMITTED BY
HEMANT LAHRE
B.SC FORESTRY 8TH SEMESTER
ENROLMENT NO – GGV/18/6089

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CERTIFICATE

I have great pleasure in certifying that Mr.Hemant Lahre S/O Mr. Devprasad Lahre is a regular student of B.Sc. Forestry VIII Semester during the session of 2022-23 of the Department of Forestry, Wildlife and Environmental Science. He has completed this forest attachment training entitled "Forest Attachment Report during this semester under my guidance. I wish him all the success in his academics.

Supervisor

Dr.Bhavana Dixit
Assistant professor
Department of Forestry, Wildlife and Environmental Science

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2

DECLARATION

I hereby declare that the project work entitled "**Forest Attachment Report**" submitted to Guru Ghasidas Vishwavidyalaya is the record of an original work done by me under the guidance of Dr. Bhavana and this project work has been formed for the award of Bachelor of Science Degree in Forestry.

Hemant

Submitted By:-
Hemant Lahre
B.Sc. Forestry
Roll No. 18007023

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Nursery

Nursery is defined as an area where plants are raised for eventual planting out. It comprises of nursery beds,paths irrigated channels etc. Nursery bed is defined as a prepared area in a nursery where seed is sown or into which seedlings or cuttings are raised. On the bases of kind of plants growing in them nursery beds are classified into seedling beds and transplant beds, seedlings, beds are those nursery beds in which seedlings are raised either for, transplanting in other beds or for planting out. A nursery which has only seedling bed.

INTRODUCTION –

The need for forest nurseries emphasizes an important difference between agriculture and forestry. The farmer sowing the seeds where his crop is to grow. The forester in most cases slows seeds and raises seedlings in a nursery and then plants them on land to be afforested.

Objectives of Nursery:-

It occupies an important place in artificial regeneration. The following objects for which nursery is generally made, clearly bring out its importance.

1. Planting of nursery grown plants is the surest method of artificial regeneration on poor and barren sites.
2. Success of road side avenue plantations depends largely on planting tall and sturdy plants which can be only obtained from nursery.
3. Some important species do not seed ever year. Plantations of these species can be raised annually, only by sowing all available seeds in nursery to raise seedlings to be planted out various years.
4. Some species grow very slowly and if the seeds of these species are sown directly in plantation, the seedlings are most likely to-be suppressed by weeds and ultimately killed. Therefore, slow growing spices are generally raised in nursery and planted out, only when the seedlings are not liable to be damaged by weeds.

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Village Attachment Report

Socio-Economic Survey of Mudiyapara Village, Kawardha (C.G)

Submitted for partial fulfillment of requirement

for the Degree of

Bachelor of Science in Forestry

(Session 2021-22)

Supervised by:

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Submitted by:

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CERTIFICATE

This is to certify that the Village attachment report entitled: **"Socio-Economic Survey of Mudiyapara village, Kawardha , Chhattisgarh"** has been submitted for the partial fulfillment of requirement for Degree of **Bachelor of Science in Forestry** to the Department of Forestry, wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya , Bilaspur , Chhattisgarh was carried out by **Mr. Hemant Lahre B.Sc. Forestry 8th semester** (roll no. 18007023) under my supervision.

His work was appreciable and satisfactory. I wish him success in future academic endeavour.

8/4/2022

Dr. Bhavana Dixit

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DECLARATION

I hereby declared that the present Village Attachment Report entitled: **"Socio-Economic Survey of Mudiyapara village Kawardha , Chhattisgarh"** interpretation or part of it has not been submitted for any degree or diploma of any university. The source of material and all the assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are authentic to my knowledge.

Hemant

Hemant Lahre

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Chapter-1

Introduction:

Socio-Economic Survey is the social science that studies how economic activity affects and is shaped by social processes. In general it analyzes how modern societies, progress stagnate, or regress because of their local or regional economy.

Socio-Economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources for households and a villages. Socio-economic status is based on income, education level, occupation, social status, perception and various other factors.

Socio-economic survey is a statistical data on household expenditure and income as well as other data on the status of housing individuals and house characteristics and living condition.

Importance of Socio-Economic Survey

Socio-economic survey helps us get data about

- Social status of people at the community
- Demographic profile of the society
- Educational status and Literacy rates
- Culture and Customs of selected area
- Economic status of the selected society

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Industrial Visit Report

Submitted for partial fulfillment of requirement

for the Degree of

Bachelor of Science in Forestry

(Session 2021-22)

Supervised by:

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This is to certify that the Industrial Visit Report entitled: **"Plywood factory Visit Report"** has been submitted for the partial fulfillment of requirement for Degree of **Bachelor of Science in Forestry** to the Department of Forestry, wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya , Bilaspur , Chhattisgarh was carried out by **Mr. Hemant Lahre B.Sc. Forestry 8th semester** (roll no. 18007023) under my supervision.

His work was appreciable and satisfactory. I wish him success in future academic endeavour.

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I hereby declared that the present Industrial visit Report entitled: **"Plywood Factory Visit Report"** interpretation or part of it has not been submitted for any degree or diploma of any university. The source of material and all the assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are authentic to my knowledge.

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INTRODUCTION

The Hardwood and Softwood is the raw material required for this project. The Hardwood i.e. raw material of trees will be bought from Kawardha District. The softwood is Rice husk, Cotton waste and Soyabin waste. The raw material is easily available in this region and hence, the project location is selected here. Indori (Kawardha) is connected to MadhyaPradesh by means of roads , Hence easy transportation.

The making of Plywood is the most universal spread manufacturing process all over. The process includes making log, cutting, vineer preparation and plywood sheets. The high quality adhesive is being used.

This industry has carved for itself an important place among the Plywoods of the State. It would provides fulltime employment to the labors and skilled workers. This will help the rural people of this region as they are getting paid for the agriculture waste instead of burning it and development of both agriculture and industry as well.

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TRAINING REPORT
ON
INDUSTRIAL TRAINING RAIGARH, CHHATTISGARH

(INDUSTRIAL TRAINING REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

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Assistant Professor
Department of Forestry, Wildlife
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GGV, Bilaspur , CG

Submitted By:

Mr. Hemant Suryawanshi
B.Sc. Forestry VIII[th] Semester
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This is to certify that the Industrial Training Report entitled : **"TRAINING REPORT ON INDUSTRIAL TRAINING"** has been submitted for the partial fulfilment of Degree of **Bachelor of Science in Forestry** to the **Department of Forestry , Wildlife & Environmental Sciences , Guru Ghasidas Vishwavidyalaya**, Bilaspur , Chhattisgarh carried out by **Mr. Hemant Suryawanshi of B.sc. Forestry, VIIIth semester student (Roll no – 18007024)** under my guidance and supervision.

His work was appreciable and satisfactory. I wish him success in future academic endeavours.

Dr. Bhavana Dixit

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DECLARATION

I hearby declare that the present Village Attachment Report entitled : ***" TRAINING REPORT ON INDUSTRIAL TRAINING"*** interpretation for part of it has not been submitted for any degree or diploma of any University . The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are authentic to my knowledge.

Hemant Suryawanshi

B.Sc. Forestry VIIIth semester
Roll no – 18007024
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Chapter-1

(INTRODUCTION) 1. Industrial Training

Industrial Training refers to the practical training in a company or an industrial environment that helps the students in developing the required skills which will help them in becoming a professional of the future.

PURPOSE

The purpose of Industrial Training is to expose students to real work of environment experience and at the same time, to gain the knowledge through hands on observation and job execution. From the industrial training, the students will also develop skills in work ethics, communication, management and others.

Industrial training is the carefully designed training program under the assistance of the professionals who guides with building exemplary modules. The students are equipped with the practical knowledge and nitty and gritty of technologies. The candidates build skills to sharpen their job acumen. 2. It's Aim & Importance

Aim

The aim of this training is as presented below:-

- To expose students to the working environment of industries on ground level
- To make the student face the pressure and physical burden during that industrial work
- To make the student understand how to handle pressure , real life management skills and the process of manufacturing , storage , marketing , collection of raw materials .
- To make the students understand the problems faced by a particular industry in a certain area.

Importance

Industrial Training helps students to develop their skills in the application of theory to practical knowledge. Industrial training helps to develop the skills and techniques which are directly relevant to their desired goals. Industrial Training also increases students' responsibility and good work habits.

3.Objectives

The objectives of industrial training are:

To provide students the opportunity to test their interest in a particular career before permanent commitments are made.

To develop skills in the application of theory to practical work situations.

To develop skills and techniques directly applicable to their careers.

The objective of industrial training is to give the student supervised opportunities to experience the essential practical tasks emphasised in their professional study and also to provide opportunities to apply their acquired skills and knowledge in working life.

4.Site selection

As Raigarh is the nearest working environment from my home, I choose the industries within Raigarh for my industrial training.

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TRAINING REPORT
ON
FIELD TRAINING, (ATTACHMENT UNDER RAIGARH FOREST DIVISION, CHHATTISGARH)

(FOREST ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

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I wish her all the success in her future academic endeavors.

8/05/2022

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FOREST ATTACHMENT

(FOREST ACTIVITIES AND OPERATIONS UNDER DEPARTMENT OF FORESTRY, RAIGARH (496001))

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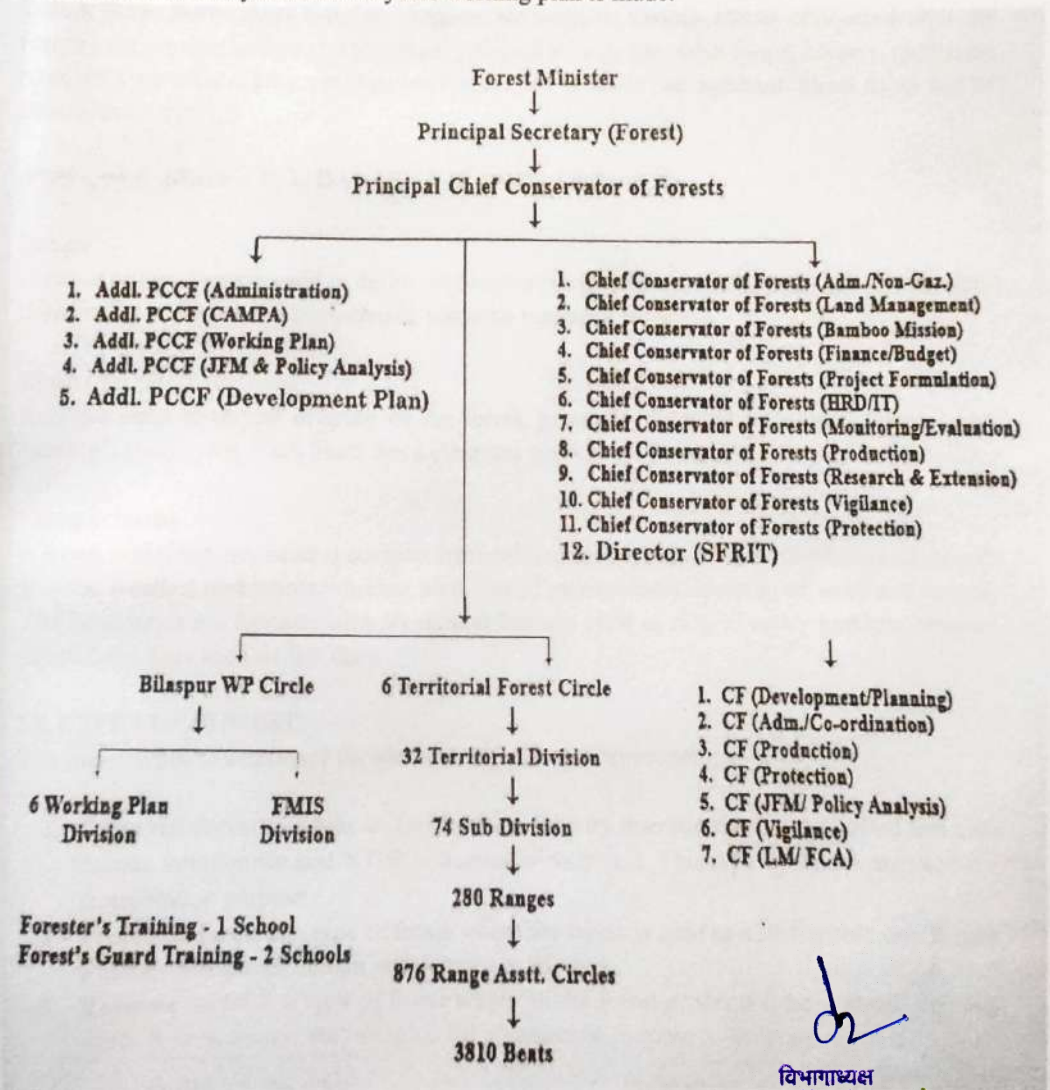
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CHAPTER-1

1. CHHATTISGARH FOREST DEPARTMENT: INTRODUCTION

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. The whole Chhattisgarh Forest is divided into 6 different working circle and circles are divided into coupes and compartments. All 6 working circle have their different management plans as per their requirement. In Chhattisgarh there are 34 forest division and for every division 10 years working plan is made.



ADMINISTRATIVE SETUP OF FOREST DEPARTMENT

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SOCIO-ECONOMIC SURVEY OF PANDARIPANI(EAST) VILLAGE, RAIGARH, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

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I wish her all the success in her future academic endeavors.

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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society.Socio-economic links the financial and social issues together.These surveys are designed to collect information regarding available local resources,resource use and management system and relative importance of resources for households and villages.Also,Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it.Socioeconomic status is based on income,education level,occupation,social status,perception and various other factors.

1.2 DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behavior and economics,and it examines how social norms,ethics and other social philosophies that influence consumer behavior shape an economy,and uses history,politics and other social sciences to examine potential results from changes to society or the economy.Socioeconomics refers broadly to the"use of economics in the study of society."In general,it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social,political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

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SOCIO-ECONOMIC SURVEY OF ARAIBAND VILLAGE, BILASPUR, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for Partial Fulfilment of Requirement

For the Degree of

Bachelor of Science

In

Forestry

Session: 2021-22

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I wish his all the success in his future academic endeavors.

5/Jul/2022

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INTRODUCTION –

This report is based on the results of fieldwork carried out in village Mardapal from 20/01/2022to 09/02/2022

It is very important for the help of this survey. Do we know the actual condition of the area and what kind of people lives in this area? It tells us about the economic condition and what types of economic activities are coming out of them. It tells about the social condition of the people in any area. What type of family, how the family survives? It also tells us about their educational attainment and self-dependency. What types of crops are growing by them? It helps us to know about their cropping pattern and lives stock rearing tendency. What type of technology do they use? Socio-economic data provide us actual situation of that area. Being surveyed we can analysis that what type of improvement can be implied there. We can think about the reforms in that area.

SOCIO-ECONOMIC SURVEY

The socio-Economic survey is an important part of education to know the status of the people of various societies. The sole aim of the Socio-Economic planning of our country is to transform the socio-economic condition of the people living in the rural areas. Since the independence of our country, more than 65% of the population have settled in rural areas, where the problem of poverty unemployment and improper living conditions prevail and have persisted for a long these problems have not attained the adequate importance in policy made by the government. Though there is some progress seen in the economic conditions of the people and to bring about development and transformation in Socio-Economic conditions and it is necessary to analyze the socio-economic condition of the rural areas and put forward the suggestions for the steps to be taken to solve the problems prevailing in the rural areas.

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A
REPORT ON
FOREST ATTACHMENT

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(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)
Koni, Bilaspur - 495009 (C.G.)

CERTIFICATE

This is to certify that the Forest Attachment Report entitled "A Report on Forest Attachment" submitted for the partial fulfillment of Degree of ***Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru GhasidasVishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr.Lavpratap Rana of B.Sc. Forestry, VIII Semester, Student (Roll No. 18007025) under my supervision. His work was appreciable and satisfactory.***

I wish his all the success in his future academic endeavors.

5/07/2022

Dr. Bhavna Dixit
Assistant Professor
Department of Forestry, Wildlife
And Environmental Science
GGV, Bilaspur (C.G.)

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

DECLARATION

I hereby declare that the present Forest Attachment Report entitled A Report on Forest Attachment interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

Lavpratap Rana
B.Sc. Forestry VIIISEMESTER
Roll. No.: 18007025
Enrollment No.: GGV/18/6099

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Report from the visit to Faldhakhar Nursery

Date – 14/03/2022

Location – Sirgitti Bilaspur Chhattisgarh

Aim - The visit aimed to see how the nursery is operating, how they are preparing seedlings and controlling pests and diseases, etc. We were hoping that such activities will help us to better understand nursery problems, needs, and goals as well as identify possible areasof cooperation between research and stakeholders.

General information about Faldhakhar Nursery -

The goal of the Faldhakhar Nursery is to produce healthy fruit tree species seedlings for manrenga purposes .and to keep pests and diseases to a minimal acceptable economic level.

Nursery type- permanent nursery Established year – 15 to 20 year Land area – 2heactare

Seedling production capacity – 80 thousand

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A

REPORT ON

INDUSTRIAL TRAINING

Submitted for Partial Fulfilment of Requirement

For the Degree of

Bachelor of Science

In

Forestry

Session: 2021-22

Under the Supervision of:

Dr.Bhavna Dixit
Assistant Professor
Department of Forestry, Wildlife
& Environmental Sciences
GGV, Bilaspur, CG

Submitted By:

Mr. Lavpratap Rana
B.Sc. Forestry VIII Sem.
Enroll.No: GGV/18/6099
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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

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गुरु घासीदास विश्वविद्यालय
(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)
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Guru Ghasidas Vishwavidyalaya
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Koni, Bilaspur – 495009 (C.G.)

CERTIFICATE

*This is to certify that the Industrial Training Report entitled "**A Report on Industrial Training**" submitted for the partial fulfillment of Degree of **Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru GhasidasVishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr.Lavpratap Rana of B.Sc. Forestry, VIII Semester, Student (Roll No. 18007025) under my supervision. His work was appreciable and satisfactory.***

I wish his all the success in his future academic endeavors.

8/5/2022

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DECLARATION

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Chapter 1

Saw mill and Timber Market

INTRODUCTION: - The wood industry or timber industry is the industry concerned with forestry, logging, timber trade, and the production of primary forest products and wood products and secondary wood products like wood pulp for the pulp and paper industry. The demand for timber is estimated to increase from 58 million cubic meters in 2005 to 135 million cubic meter in 2020. In Chhattisgarh major timber species are Babool(*acacia nilotica*), sal(*shorea robusta*),teak(*tectona grandis*), shesham(*dalbergia latifolia*), Bijasal(*pterocarpus marsupium*), Deodar (*Cedrus deodara*) amd many more.

We had a visit at saw mill and retail shops of wood products under our industrial training attachment. The two saw mills were DHANJI BHAI SAW MILL , Mangla, Bilaspur and Aara Mill at Shanichari Bazar, Bilaspur where we gained knowledge on different species of wood their uses and identification, types of machineries used, steps from auction of timber at wood depots to it processing and final products.

Sawmill or lumber mill is a facility where logs are cut into lumber. Modern sawmills use a motorized saw to cut logs lengthwise to make long pieces, and crosswise to length depending on standard or custom sizes.



Fig: 1 DHANJI BHAI PATEL SAW MILL

TYPES OF TIMBER INDUSRTIES

1. Wooden handicrafts
2. Pulp and paper
3. Plywood industries
4. Veneer industries

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A

REPORT ON

SOCIO-ECONOMIC SURVEY OF VILLAGE MANDESRA

SESSION 2021-2022

BACHELOR OF SCIENCE IN FORESTRY (4YDC)

DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCE

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR

UNDER THE SUPERVISION OF:-

DR.A.K. SINGH

Assistant professor

DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

SUBMITTED BY:-

MEHUL SINGH TOMAR

B.Sc FORESTRY

VIII SEMESTER

ROLL NO. 18007026

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GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G)

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CERTIFICATE

I have great pleasure in certifying that ***Mr.MEHUL SINGH TOMAR S/O Mr. PUTAN SINGH TOMAR*** *is a regular student of B.Sc Forestry VIII Semester during the session of 2021-2022 of Department of Forestry, Wildlife and Environmental Science. He has completed this Socio-Economic Survey of Village entitled* ***"A report on Socio-economic survey of village MANDESRA"*** *during this semester under my guidance. I wish him all he success in his academics.*

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DECLARATION

I hereby declare that the project work entitled "***A report on Socio-economic survey of village MANDESRA***" submitted to Guru Ghasidas Vishwavidyalaya is record of

an original work done by me under the guidance of "Dr.A.K.Singh" and this project work has been formed for the award of Bachelor of Science Degree in Forestry.

Date: 18/01/2022

Place: Mandesra, dist. Chittorgarh, Rajasthan.

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- Socio-Economic Survey
- Definition
- Importance of Socio-Economic survey
- Socio-Economic assessment
- Aim of the survey
- Objectives of survey
- Methodology adopted for survey
- Village

❖ **CHAPTER – 2 (VILLAGE POTRAIT)**

- General profile of the village
- Map of the village
- Village infrastructures
- Problems & Suggestions

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CHAPTER-1
INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socio-economic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behavior and economics, and it examines how social norms, ethics and other social philosophies that influence consumer behavior shape an economy, and uses history, politics and other social sciences to examine potential results from changes to society or the economy. Socioeconomics refers broadly to the "use of economics in the study of society." In general, it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

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A

REPORT ON

INDUSTRIAL TRAINING

SESSION 2021-2022

BACHELOR OF SCIENCE IN FORESTRY (4YDC)

DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCE

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR

UNDER THE SUPERVISION OF:-

DR.A.K. SINGH

Assistant professor

DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

विभागाध्यक्ष
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SUBMITTED BY:-

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B.Sc FORESTRY

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CERTIFICATE

I have great pleasure in certifying that ***Mr.MEHUL SINGH TOMAR S/O Mr. PUTAN SINGH TOMAR*** *is a regular student of B.Sc Forestry VIII Semester during the session of 2021-2022 of Department of Forestry, Wildlife and Environmental Science. He has completed this Industrial training from GHAVP (Gorakhpur Haryana Anu Vidyut Pariyojana) entitled* ***"A report on Environmental needs and clearances to establish a Nuclear Power Plant."*** *during this semester under my guidance. I wish him all he success in his academics.*

विभागाध्यक्ष
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Supervisor
Dr.A.K. SINGH
Assistant Professor
Department of Forestry, Wildlife and Environmental Science

DECLARATION

I hereby declare that the project work entitled ***"A report on Environmental needs and clearances to establish a Nuclear Power Plant."*** submitted to Guru Ghasidas Vishwavidyalaya is record of an original work done by me under the guidance of "Dr.A.K.Singh" and this project work has been formed for the award of Bachelor of Science Degree in Forestry.

Date: 01/04/2022

Place: GHAVP, dist. Fatehabad, Haryana.

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Mr. MEHUL SINGH TOMAR

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Enrollment no: GGV/18/6106

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- 3.2. Terms of Reference (TOR) points given by MoEF
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1. Nuclear Power Plant (NPP)

A Nuclear Power Plant is an industrial site that generates electricity from nuclear power, released in the form of thermal energy produced by nuclear fission chain reactions in the vessel of a nuclear reactor. A **nuclear power plant** analogous to thermal power station in which the heat source is a nuclear reactor. As is typical of thermal power stations, heat is used to generate steam that drives a steam turbine connected to a generator that produces electricity. The main component of a nuclear power plant is the nuclear reactor, which contains the nuclear fuel and has systems that make it possible to start, sustain and stop the nuclear reaction in a controlled manner.

Currently, 439 nuclear power reactors are in operation in 32 countries as per International Atomic Energy Agency's report. First time nuclear reactor was used to generate electricity on 20th December 1951 (Experimental breeder reactor I). Apsara was India and Asia's first nuclear reactor reached criticality on 4th August 1956 at Trombay.

First Nuclear Power Station to generate electricity for a power grid was Obninsk Nuclear Power Plant commenced operations in Obninsk, Soviet Union (USSR). World's first full scale Power station, was Calder Hall in U.K (17 Oct 1956). India's first NPP was Tarapur 1-2 (**BWR**) on 28th October 1969.

Nuclear Power is the fifth-largest source of electricity in India after coal, gas, hydroelectricity and wind power. The Carbon footprint of a **NPP** is comparable to that of renewable energy such as solar power plants and wind power plants.

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TRAINING REPORT

ON

FOREST ATTACHMENT

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

SUBMITTED TO:

Dr.Ajay Kumar Singh

Assistant Professor

(Department of Forestry, Wildlife & Environmental Sciences)

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SUBMITTED BY:

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CERTIFICATE

I have great pleasure in certifying that ***Mr. Mehul Singh Tomar*** *s/o* ***Mr.Putan Singh Tomar*** *is a regular student of B.Sc. Forestry 8th Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur. He has completed this Computer Application training entitled* ***"Training report on Forest attachment)"*** *during this semester under my guidance.*

I wish him all the success in his academics.

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Dr.Ajay Kumar Singh
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DECLARATION

I hereby declare that the project work entitled ***"Training report on Forest Attachment Training"*** *submitted to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of* ***Dr.Ajay Kumar Singh*** *and this project work has been performed for the award of Bachelor's degree in Forestry.*

Date:18/02/2022

Place: Hisar, Haryana

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SUBMITTED BY:

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Roll no: 18007026

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1. HARYANA FOREST DEPARTMENT: INTRODUCTION

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. Various Cadre posts are managed by Officers of Indian Forest Service (IFS). The total sanctioned strength of IFS is 69. The State Cadre strength of Haryana Forest Service (HFS) Officers is 54 and various Forest Divisions are also being managed by senior HFS Officers.

The Government Forests, called Territorial Forests are managed by well-defined Territorial Forest Divisions and Forest Circles. The Territorial Forests in each district are controlled and managed by Divisional Forest Officers (DFOs). The Forest Divisions are controlled administratively by Conservator of Forests of respective Forest Circles. There are four Territorial Forest Circles - North (Panchkula), South (Gurgaon), Central (Rohtak) and West (Hisar). The North and Central & South and West Circles are controlled by Chief Conservator of Forests (Protection-I) at Panchkula and (Protection-II) at Gurgaon respectively and they report to the Additional Principal Chief Conservator of Forests (APCCF: Forestry) under overall control of Principal Chief Conservator of Forests (PCCF) Haryana at Van Bhawan, Sector-6, Panchkula.

The administrative setup from the lowest rung till the Circle level is as follows:-

- Forest Beats- The basic management unit of Territorial wing is a Forest Beat having small area and limited forest boundaries. Forest Guards are posted to manage the Forest Beats. There are 861 Territorial Beats in 21 districts.
- Forest Blocks- The next higher unit is a Forest Block consisting of a number of Forest Beats. The Forest Blocks are managed by Foresters designated as Block Forest Officers. There are 235 Territorial Blocks in 21 districts.
- Forest Ranges- The next higher management unit is Forest Range managed by Forest Rangers or senior Dy. Rangers. Forest Ranger is a very important functionary in the Forest Department having headquarters at Sub-division level. There are 64 Territorial Forest Ranges in 21 districts.
- Forest Divisions- At the district level the Forest Management Unit is a Forest Division. Forest Divisions are managed by Divisional Forest Officers (DFOs). Forest Division consists of a number of Forest

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VILLAGE ATTACHMENT REPORT

ON SOCIO-ECONOMIC SURVEY OF KODENAR VILLAGE

Submitted for partial fulfilment of requirement of the Bachelor of Science in Forestry

(Session-2021-22)

Under the Supervision of:

Dr. Ajay Kumar Singh
Assistant Professor
Department of Forestry,
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GGV, Bilaspur (C.G.)

Submitted By:

Mishel Weldon
B.Sc. Forestry 8th Semester
Roll No. 18007027
Enroll No. GGV/18/1607

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

GURU GHASIDAS VISHWAVIDYLAYA BILASPUR (C.G.)

(A Central University Established Under Central University Act 2009, No.25 of 2009)

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This is to certify that the village attachment report entitled: ***"SOCIO-ECONOMIC SURVEY OF VILLAGE – KODENAR, DANTEWADA, CHHATTISGARH"*** submitted for the partial fulfillment of *Degree of Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh* carried out by ***MISHEL WELDON B.Sc. Forestry VIII Semester*** *Student (Roll no. 18007028)* under my supervision, her work was appreciable and satisfactory

I wish her all the success in her future academic endeavors.

(Dr. Ajay Kumar Singh)
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DECLARATION

I hereby declare that the present village attachment report entitled "***SOCIO ECONOMIC SURVEY OF VILLAGE KODENAR DANTEWADA CHHATTISGARH***" interpretation or part of it has not been submitted for an degree or diploma of any university the source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are authentic to my knowledge.

Mishel

MISHEL WELODN

B.Sc. FORESTRY 8TH SEMESTER

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   - Socio economy survey definition
   - Importance of socio economy survey
   - Aim and Objective of survey
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CHAPTER 1

INTRODUCTION

Socio-economic survey is regarded as one of the most important sources of statistical data on household expenditure and income as well as other data on the status of housing, individual and household characteristics and living conditions.

Socio-economic survey tools are designed to collect information as a means of improving understanding of local resource management systems, resource use and the relative importance of resources for households and villages.

Social economics is a branch of economics that focuses on the relationship between social behavior and economics,and it examines how social norms,ethics and other social philosophies that influence consumer behavior shape an economy,and uses history,politics and other social sciences to examine potential results from changes to society or the economy.Socioeconomics refers broadly to the"use of economics in the study of society."In general,it studies the relation of economics to social values.

This socio economics survey is done in the village kodenar located in state Chhattisgarh which covers an area of 1,35,192 sq km which is 4.11% of the geographical area of the country. The state falls under East Deccan physiographic zone and can be divided into three agro-climatic zones. It has a tropical hot and humid climate. The average annual rainfall varies from about 1,100 mm to about 1,700 mm and the average annual temperature ranges between 11℃ to 47℃. Chhattisgarh has a forest cover of 59,772 sq km which is 44.21% of the geographical area. There are three forest types in Chhattisgarh- Tropical Moist Deciduous, Tropical Dry Deciduous and Subtropical Broad-leaved hill forest. The forest have been classified as Sal (*shorea robusta*), Teak (*tectona grandis*) and miscellaneous, including bamboo.

The state has a total of 7,822,902 population of scheduled tribes in which Bastar is well known for its tribal population, which comprises around 63% of the total scheduled Tribes in the Chhattisgarh state. The largest and oldest tribe of Chhattisgarh is Gond tribes. Non-Timber forest products (NTFPs) are an integral part of development and survival of tribal people of Chhattisgarh. Major NTFPs collected in Chhattisgarh state are- Tendu leaves (Diospyros

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I wish her all the success in her future academic endeavors.

(Dr. Ajay Kumar Singh)

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- Saw mill and timber industry
- Timber species and its identifications
- Training site visit
- Timber auction steps

CHAPTER 2 ***14-19***

- NTPC Sipat
- Waste management
- Development and environment effect
- Awards of NTPC Sipat

CHAPTER 3 ***20-24***

- Vanaushadhi process unit
- Species of Donganala herbal garden
- Herbal medicinal prepared in Donganala

CHAPTER 4 ***25***

- Conclusion
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CHAPTER- 1

SAW MILL AND TIMBER INDUSTRY

INTRODUCTION: - The wood industry or timber industry is the industry concerned with forestry, logging, timber trade, and the production of primary forest products and wood products and secondary wood products like wood pulp for the pulp and paper industry. The demand for timber is estimated to increase from 58 million cubic meters in 2005 to 135 million cubic meter in 2020. In Chhattisgarh major timber species are Babool(*acacia nilotica*), sal(*shorea robusta*), teak(*tectona grandis*), shesham(*dalbergia latifolia*), Bijasal(*pterocarpus marsupium*), Deodar(*cedrus deodara*) and many more.

We had a visit at saw mill and retail shops of wood products under our industrial training attachment. The two saw mills were Jai Hanuman Woodworks, Mungeli Road, Bilaspur and Aara Mill at Shanichari Bazar, Bilaspur where we gained knowledge on different species of wood their uses and identification, types of machineries used, steps from auction of timber at wood depots to it processing and final products.

Sawmill or lumber mill is a facility where logs are cut into lumber. Modern sawmills use a motorized saw to cut logs lengthwise to make long pieces, and crosswise to length depending on standard or custom sizes.

TYPES OF TIMBER INDUSRTIES

1. Wooden handicrafts
2. Pulp and paper
3. Plywood industries
4. Veneer industries
5. Wooden furniture industries

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Forestry

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CERTIFICATE

I have great pleasure in certifying that **Mr. Mohan Ram Yadav** s/o **Mr. D.R. Yadav** is a regular student of **B.Sc. Forestry VIII Semester** during the session of 2021-22 of Department of **Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur**. He has completed this Computer Application training entitled **"Training report on Industrial Training"** during this semester under my guidance.

I wish him all the success in his academics.

(Dr. Ajay Kumar Singh)

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DECLARATION

I hereby declare that the project work entitled **"Training report on Industrial Training"** submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of **Dr. Ajay Kumar Singh** and this project work has been performed for the award of Bachelor's degree in Forestry.

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CHAPTER-1

Plywood Manufacturing Industry

Introduction-

Plywood - Plywood is a building material consisting of veneers (thin wood layers or plies) bonded with an adhesive. There are two types of plywood: softwood plywood and hardwood plywood. Softwoods generally correspond to coniferous species. The most commonly used softwoods for manufacturing plywood are firs and pines. Hardwoods generally correspond to deciduous species. For hardwood plywood, commonly used wood species include oak, poplar, maple, cherry, and larch

Softwood plywood is manufactured by gluing several layers of dry softwood veneers together with an adhesive. Softwood plywood is used for wall siding, sheathing, roof decking, concrete formboards, floors, and containers. Softwood plywood is classified under Standard Industrial Classification (SIC) code 2436, and North American Industrial Classification System (NAICS) code 321212 for "Softwood Plywood and Veneer"

Hardwood plywood is made of hardwood veneers bonded with an adhesive. The outer layers (face and back) surround a core which is usually lumber, veneer, particleboard, or medium density fiberboard. Hardwood plywood may be pressed into panels or plywood components (e.g., curved hardwood plywood, seat backs, chair arms, etc.). Hardwood plywood is used for interior applications such as furniture, cabinets, architectural millwork, paneling, flooring, store fixtures, and doors. Hardwood plywood is classified under SIC code 2435 and NAICS code 321211, for "Hardwood Plywood and Veneer".

Softwood plywood plants typically produce softwood veneers and softwood plywood on the same plant site. However, most hardwood plywood and veneer plants either produce hardwood plywood or hardwood veneer. Hardwood veneer plants cut and dry hardwood veneers. Hardwood plywood plants typically purchase hardwood veneers and press the veneers onto a purchased core material.

Process Description

The manufacture of softwood or hardwood plywood consists of nine main processes: log storage, log debarking and bucking, heating the logs, peeling the logs into veneers, drying the veneers, gluing the veneers together, pressing the veneers in a hot press, plywood cutting, and other finishing processes such as sanding. Figure 1 provides a generic process flow diagram for a plywood mill.

The initial step of debarking is accomplished by feeding logs through one of several types of debarking machines. The purpose of this operation is to remove the outer bark of the tree

Without substantially damaging the wood. After the bark is removed, the logs are cut to appropriate lengths in a step known as bucking.

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FOREST ATTACHMENT REPORT

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GURU GHASIDAS VISHWAVIDLAYA BILASPUR (C.G.)

(A Central University Established Under Central University Act 2009, No.25 of 2009)

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I have great pleasure in certifying that **Mr. Mohan Ram Yadav** s/o **Mr. Dujanand Ram Yadav** is a regular student of B.Sc. Forestry VIII Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur. He has completed this Computer Application training entitled **"Training report on Field Training" (Attachment with State Forest Department)** during this semester under my guidance.

I wish him all the success in his academics.

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DECLARATION

I hereby declare that the project work entitled "Training report on Field Training **(Attachment with State Forest Department)**" submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of **Dr. Ajay Kumar Sing** and this project work has been performed for the award of Bachlore's degree in Forestry.

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CHAPTER-1

INTRODUCTION-

Forest In Chhattisgarh- Chhattisgarh covers an area of 1,35,192 sq km which is 4.11% of the geographical area of the country. The state falls under East Deccan physiographic zone and can be divided into three agro-climatic zones. It has a tropical hot and humid climate. The average annual rainfall varies from about 1,100 mm to about 1,700 mm and the average annual temperature ranges between 11℃ to 49℃. Chhattisgarh has a forest cover of 59,772 sq km which is 44.21% of the geographical area. There are three forest types in Chhattisgarh- Tropical Moist Deciduous, Tropical Dry Deciduous and Subtropical Broad-leaved hill forest. The forest have been classified as Sal (shorea robusta), Teak (tectona grandis) and miscellaneous, including bamboo.

Chhattisgarh is rich in forest biodiversity so it is important to have a management program. There are two major categories of forests in Chhattisgarh namely-

- Tropical Humid Deciduous forest
- Tropical dry deciduous forest

TYPE OF FOREST	PROPORTION(%)
Reserve forest	43.41
Protected forest	40.21
Unclassified forest	16.65

TYPES OF FOREST

Types of forest in terms of forest department

1. Reserved forest is a type of forest where forestry operations are not allowed and also human interference and NTFP collection is restricted. This types of forests are used for conservation purpose.

2. Protected forest is a type of forest where the forest is used in a sustainable way means a certain amount of human interference is allowed.

3. Revenue forest is a type of forest where all the forest products (like - wood, flowers, fruits, leaves,honey, etc) are used for commercial purpose to generate revenue.

Forest Type in Chhattisgarh-

Within 5km radius of forest, numerous village are there. Most of the population there belongs to tribal or backward community. There are mostly dependent on forests for their livelihood.

There are 2 major species of trees in the state. Those are:

1. Sal (*Shorearobusta*), 2.Teak(*Tectonagrandis*)

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SOCIO -ECONOMIC REPORT OF MADANPUR INJKO VILLAGE JASHPUR CHHATTISGARH PIN-496118

(Village Attachment Report)

Submitted for partial fulfilment of requirement of the Bachelor of Science

In

Forestry

(Session-2021-22)

Under the Supervision of:

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Assistant Professor
Department of Forestry,
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Mohan Ram Yadav
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This is to certify that the Village Attachment Report entitled: **"SOCIO-ECONOMIC SURVEY OF MADANPUR INJKO VILLAGE, JASHPUR, CHHATTISGARH"** submitted for the partial fulfillment of Degree of **Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh** has been carried out by **Mr. Mohan Ram Yadav of B.Sc. Forestry, VIII Semester, and Enrollment No. (GGV/18/6110)** under my guidance and supervision.

I wish him all the success in his future academic endeavors.

(Dr. Ajay Kumar Singh)

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: ***"SOCIO-ECONOMIC SURVEY OF MADANPUR INJKO VILLAGE, JASHPUR, CHHATTISGARH"*** interpretation or part has not been submitted for any degree or dipoma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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CHAPTER 1

Introduction-

Socioeconomics is the social science that studies how economic activity affects and is shaped by social processes. In general it analyzes how modern societies, progress stagnate, or regress because of their local or regional economy.

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, social status, perception and various other factors.

Socio economic survey is a statistical data on household expenditure and income as well as other data on the status of housing individual and house characteristics and living condition. Attended lecture According to (**Dr.Vikram Sing ,department of social work, GGU)**

Survey is a research method used for collecting data from a predefined group. Attended lecture According to **(Dr. Dilip Bande , Department of Rural Technology, GGU)**

It is the measure of social standing of the individual or a family and has a wide impact on an individual/family 's health, educationattachment, diet, lifestyle, etc. Attended lecture According to **(Dr. Archna Yadav, dept of of social work GGU)**

Importance of Socio-economic Survey

Socio economic survey helps us get data about

1. Social Status of people at the Community
2. Demographic profile of the Society
3. Educational Status and Literacy rates
4. Culture and Customs of selected area
5. Economic status of the selected society

Aims of the Survey

The main aim of the Survey was to know about the Social,Political and Economic status of the selected village,recognize positive and negative aspects of that village and to propose ways to solve problems in village.we were appointed as surveyors so that we can get an exposure to the methodologies of Socio-Economic Survey and village lifestyle or livelihood through a practical procedure.

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SOCIO-ECONOMIC SURVEY OF KHARGAHNI VILLAGE, KOTA, BILASPUR, CHHATTIGARH

(VILLAGE ATTACHMENT SURVEY)

Submitted for partial fulfilment of requirement of the

Bachelor of Science

In

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Session 2021-22

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I Have great pleasure to certify that Miss N. Jasmine d/o Mr. N. David Raju is a regular student of B.Sc. Forestry VII Semester during the session of 2021-2022 of Department of Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur. She has completed his Computer Application training entitled "Training report on Socio-economic survey" during this semester under my Guidance.

I wish her all the success in his academics.

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I hereby that the project work entitled ***"Socio-economic survey (Village attachment)"*** *submitted to Department of Forestry, Wildlife and Environment Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of* ***Ass. Proff. Dr. Ajay Kumar Singh*** *and this project has been performed for the award of Bachelor's degree in forestry.*

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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY

Socio-economic survey is the interaction between people of rural/village area and the person who is surveying. The survey is conducted among household peoples of village's. It refers to the interaction between the social and economical habits of a group of people. It refers one of the most important sources of statistical data on household expenditure and income as well as other data on the household status, characteristics, living conditions and their facilities.

1.2 IMPORTANCE OF SOCIO-ECONOMIC SURVEY

- # It highlights the initiatives done by the Govt in villages.
- # It summarizes the major development programs in certain areas.
- # It gives an outline of village.
- # It provides information about medical and health facilities, education facilities.
- # It provides village count.

1.3 GOAL OF THE SURVEY

The main aim of the survey is to collect information and then to understand the socio-economic status of the village khargahni and to study it to identify and enlist their weakness and strength. And to encourage them for a good living and to find a way to help solve their issues.

1.4 OBJECTIVES OF THE SURVEY

The main objectives of Socio-economic survey are listed below-

1. To gather the democratic graph of age distribution, recidency patterns and male- female ratio.
2. To learn about the population growth .
3. To gather the past and present local history of the village and socioeconomic issues.
4. To learn about the transportation and communication facilities in village.
5. To collect information about the Govt schemes implemented in the village and its effect on it.
6. To learn about their crops grown in fields and how much animal feed they need for their money.
7. To learn about the village medical facilities , their health and cleanliness.

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A

REPORT ON

"INDUSTRAIL TRANING"

SUBMITTED FOR PARTIAL FULFILMEN OF REQUIREMENT OF THE

BACHELOR OF SCIENCE

IN

FORESTRY

Session 2021-22

SUBMITTED TO:

Dr.Ajay Kumar Singh

Assistant Professor

Dept.of Forestry Wildlife

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CHAPTER-1

INTRODUCTION OF FOREST BASED INDUSTRIES

FOREST BASED INDUSTRIES-

India is one of fast growing forest-based industries in the world. The growing knowledge base coupled with synergistic contribution from the flagship schemes of the government. Forest-based Industry includes- the paper industry, match industry, silk industry, lac industry, sports goods industry and handicraft. The industries that use raw materials is known as forest based industries. India is a leading country in lac production. 60% of lac in the world is produced here. India is also the largest exporter of lac in the world.

The forest based industry is growing rapidly with the increasing demand for furniture, housing, construction material, packaging, agriculture good, sports goods, plywood, veneer, matches etc. Similarly the biomass based power generation industries are also on the raise across the country to generate electricity from forest biomass. This growing demand of wood and wood based industries will create a wood deficit of 20-70 million cubic meter by 2020.

It is estimated that approximately 40 per cent of the forest products are supplied from outside forest areas and more than 95 per cent of fuel wood and major timber requirement are obtained from outside forest areas. The following are the major forest based industries which depend heavily on forest and agroforestry plantation to meet the raw material requirement.

LIST OF FOREST BASED INDUSTRIES-

- Pulp and paper industries.
- Match industries.
- Timber and saw wood industries.
- Ply wood industries.
- Partical board industries.
- Fibre board industry.
- Dendro Biomass Power Generation Industries.
- Oil and bio-diesel industry.
- Value addition industries.
- Medicinal industries.
- NWFP based industries.

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In

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INTRODUCTION

FOREST ADMINISTRATION:

The **forest administration** is the body responsible for implementation of forest policy and forestry issues in a particular country through rules, legislation and financial that means information and forest programs, the forest policy aims to promote the sustainable management and use of forest land resources.

The **State Forestry Department** is responsible for the administration and regulation of forest harvesting, forest revenue collection and development of the state forest resources. The Department also plans and coordinates the development of wood-based industries. The State Forestry Department is divided into Forest Operations and Forest Development Divisions and supported by District Forest Offices.

Forest Development Division Responsible for planning, implementing and monitoring of forest management and development activities, including biodiversity conservation, ecotourism development and forest rehabilitation as well as the preparation and implementation of the State Forest Management Plan.

District Forest Office Responsible for administration, controlling forest harvesting, forest revenue collection and forest law enforcement. The office is also responsible for implementing forest management and development activities including the management of forest eco-park and state forest park.

AIM OF FOREST ADMINISTRATION-

- To protect the forest its flora and fauna.
- To provide sustainable forest management.
- To provide well economic condition.
- To provide well environmental condition.
- To provide well biodiversity composition.
- To provide better land management.
- To provide better health for the earth.
- Natural resource monitoring and development

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

INDUSTRIAL REPORT

ON

INDUSTRIAL TRAINING

Submitted for partial fulfillment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

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I wish her all the success in future academic endeavors.

(Dr. Ajay Kumar Singh)
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I hereby declare that the present Industrial Report entitled: ***"INDUSTRIAL TRAINING, CHHATTISGARH"*** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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CHAPTER NO- 01

SAW MILL AND TIMBER SHOP VISIT

Saw mill definition:

Saw mill, machine or plant with power-driven machines for sawing logs into rough-squared sections or into planks and board. A sawmill may be equipped with planning, molding, tenoning and other machine for finishing processes.

➢ INTRODUCTION

We had a visit at saw mill and retail shops of wood products under our industrial training attachment. The two saw mills were Jai Hanuman Woodworks, Mungeli Road, Bilaspur and Aara Mill at Shanichari Bazar, Bilaspur where we gained knowledge on different species of wood their uses and identification, types of machineries used, steps from auction of timber at wood depots to it processing and final products.

Sawmill or lumber mill is a facility where logs are cut into lumber. Modern sawmills use a motorized saw to cut logs lengthwise to make long pieces, and crosswise to length depending on standard or custom sizes.

➢ WOOD PRODUCTS AFTER PRIMARY PROCESSING

- **Poles and posts,** and certain mine timbers are products in round form. Poles are used in supporting telegraph and telephone lines and as pilings (foundations for wharves and buildings); posts are used in fences, highway guards, and various supports. As a rule, roundwood products are subjected to preservative treatment. The bark is removed in the forest or factory, and poles and posts are further processed by shaving to remove surface irregularities, by framing (boring holes and making necessary cuts), and by incising (punching slitlike depressions to facilitate the entrance of preservative chemicals).
- **Sawn wood**

  Lumber is the main sawn wood product. Lumber of large dimensions—more than about 10 cm (4 inches) in width and thickness—are [illegible] constructions is called timber.

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

(VILLAGE ATTACHMENT REPORT)

ON

SOCIO-ECONOMIC SURVEY OF MULMULA VILLAGE, JANJGIR CHAMPA, CHHATTISGARH

Submitted for partial fulfillment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

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CHAPTER NO-01

INTRODUCTION

1.1 SOCIOECONOMIC SURVEY

This survey is conducted in order to obtain information about the social behaviour, trends of people, economic conditions and the trends prevailing in that particular area. The social survey of a community is necessary for planning a new town or renewal programs. These survey deals with the populations of the area, age group, size and type of family, language and way of living. The economic survey is conducted to take care of the economical condition and the status of community such as source of income.

1.2 IMPORTANCE OF SOCIOECONOMIC SURVEY

Socio-economic observation helps to get the details about:-

Social political and economic aspects of a territory. Cultures and customs of the village. Regarding the educational status and literacy rate. Demographic profile of the society. Provides information about health and medical conditions.

It is very important for the help of this survey of village **Mulmula**. We know the actual condition of area that what kind of people lives in this area? It tells us about the economic condition that what types of economic activities are coming out by them. It tells about the social condition of the people in village **Mulmula** . What type of family, how the family survives, and what type of meal they use? It also tells us about their education attainment and self-dependency. What types of crops are growing by them? It helps us to know about their cropping pattern and livestock rearing tendency. What type of technology they use? Socio-economic data provide us actual situation of village **Mulmula**. Being surveyed we can analysis that what type of improvement can be implied there. We can think about the reforms of the village Mulmula.

1.3 SOCIO ECONOMIC ASSESSMENT: -

Socio-Economic Assessment (SEA) is a systematic appraisal of the potential social and economic impacts on different sectors of society, including individuals, communities and groups, civil society organizations, private sector and government. It analyses and manages the social and economic impacts, both positive and negative, of planned

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

FOREST ATTACHMENT REPORT

0N

FORESTRY OPERATIONS (WORKING EXPIRIENCE)

Submitted for partial fulfillment of requirement

for the Degree of

Bachelor of Science

In

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(Session: 2021-22)

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I wish her all the success in her future academic endeavors.

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CHAPTER NO - 01

INTRODUCTION

The geographical area of Chhattisgarh state is 1,35,194 square kilometers, which is 4.1 percent of the country's area. Forest area of the state approx. is 59,772 square kilometers, which is 44.21 percent of the state's geographical area. Which is third rank in the country in terms of forest covers.

Chhattisgarh state extends between 17 ° 46 'degrees, 24° 06' degrees north latitude and 80 °15' degrees, 84° 51' degrees in the center of east longitude. There is four major river systems Mahanadi, Indravati, Hasdev, Sivanath, and Arpa,. Climate of the state mainly co- humid and the average annual rainfall is 1200 to 1500 mm.

Forests of Chhattisgarh state divided into two major categories, namely Tropical Humid Deciduous forest and tropical dry Deciduous forest. The state's two main tree species are sal (*Shorea robusta*) and teak (*Tectona grandis*). In addition, the Top canopy species are bija (*Pterocarpus marsupium*), Saja (*Terminalia tomentosa*), Dhavdha (*Anogeissus latifolia*), Mahua (*Madhuca indica*), Tendu (*Diospyros melanoxylon*). Mid-Canopy species are Anwala *(Embilica officinalis*), Karra *(Cleistanthus collius*) and bamboo *(Dendrocalamus strictus*) etc. There is various vegetation found in state and which are so important in terms of environmental balance, as well as they are the principal means of livelihood of forest-dwellers.

Southern bio-geologically region include in Deccan, and Northern Chhattisgarh represents hilly terrains geographically and central Chhattisgarh region reperesents geographically plain area. Wildlife, such as tigers *(Panthera tigris*), the leopard (*Panthera pardus*), gaur (*Bos gaurus*), sambar (*Cervus unicolor*), chital (*Axis axis*), nilgai (*Boselaphus tragocamelus*) and wild boar *(Sus Scofa*). Rare wildlife such as forest buffalo (*Bubalus bubalis*) and hill myna (*Gracula religiosa*) valuable asset of the state, respectively, which have been declared, state animal and state bird. Sal tree announced state tree.

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A REPORT ON

SOCIO-ECONOMIC SURVEY OF VILLAGE (LOKHANDI) CHHATTISGARH

Submitted for partial fulfillment of requirement for the degree of Bachelor of Science in Forestry

Session – 2021-22

UNDER SUPERVISION

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I have great pleasure in certifying that ***Mr. Nikhil Raj*** *s/o* ***Mr.Santosh Raj*** *is a regular student of B.Sc. Forestry 8th Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur. He has completed this Socio -economic training entitled* ***"Training report on Socio –economic Survey of Village - Lokhandi"*** *during this semester under my guidance.*

I wish him all the success in his academics.

(Dr. Ajay kumar Singh)

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DECLARATION

I hereby declare that the project work entitled ***"Training report on Village attachment report Socio-economic Survey of Village Lokhadi"*** *submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me under the guidance of* ***Dr Ajay k.singh ,Dr Arvind Prajapati*** *and this project work has been performed for the award of Bachelor's degree in Forestry.*

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1. SOCIO- ECONOMIC STATUS AND ANALYSIS

1.1INTRODUCTION

This report is based on the results of fieldwork carried out in Lokhadi from 17/01/2022 to 03/02/2022.

In general it analyses how society progress, or regress because of their local or regional economy, or the global economy.

The term 'Social economics' may refer broadly to the "use of economics in the study of society." More narrowly, contemporary practice considers behavioral interactions of individuals and groups through social capital and social "markets" and the formation of social norms. In the latter, it studies the relation of economics to social values.

1.2 SOCIO –ECONOMIC ASSESSMENT

Socio economic impact assessment is the systematic analysis used during Economic Impact Assessment to identify and evaluate the potential socio economic and cultural impacts of a proposed development on the lives and circumstances of people, their families and their communities.

Assess the prevailing socio-economic conditions in the study site. This includes provision of a baseline study and characterizing the existing state of the study site. This will assist in identifying the main areas of concern.

Analyze the impacts of the prevailing study on the socio-economic structure of the study sites. Develop a set of guidelines for judging the local conditions.

Accordingly, the following section will be concerned with listing all possible socio- economic impacts and the indicators used to estimate their magnitude. This is followed by a general discussion of the methodology usually employed in conducting socio-economic analysis.

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A REPORT ON

INDUSTRIAL ATTACHMENT

Submitted for partial fulfilment of requirement for the degree of Bachelors of Science in Forestry

(Session: 2021-22)

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B.Sc. Forestry 8th semester
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I hereby declare that the project entitled ***"Industrial attachment"*** interpretation or part of it has not been submitted to any degree or diploma of any university. The source of material and all the assistance received during the course of investigation has been duly acknowledged. All the records and data provided in the report are authentic to my knowledge.



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Introduction

Forest based industries: The industries that use forest raw material are known as forest-based industries. The major forest-based industries are the paper and pulp industry, match wood industry, Timber and Sandalwood industry, Plywood industries, oil, and biodiesel industry, etc.1 For developing countries like India, forests are sustenance and survival for a large populace. Forests are renewable resource and contribute towards economic development. Forests occupied a share of 1.7 per cent to gross domestic product (Singh and Beniwal, 1995). At present a large section of population depends upon forests for their livelihood. Forests fulfil the needs of fuel, fodder, energy, housing, and timber, raw material for artisans and industries and employment. The minor forests products including fruits, flowers, seeds, grasses, dyeing and tanning agents, natural gums, resins etc. also contribute to the economy. The role of forests in ecological balance, bio-diversity conservation, food security, protection of soil and water resources, and mitigation of global warming, combating desertification and sustainable development has been widely accepted.

Importance of Forest based industries:

- Forest based industries provide employment opportunities.
- These industries help women become financially independent
- **Rural areas** – the industries help maintain employment and wealth generation in rural areas. They are rich sources of energy, housing, firewood, timber and fodder and they provide employment to a large section of the rural population
- **Low-carbon bio-economy** – the industries have expertise in wood and wood fibre, which is a natural renewable bio-based resource with carbon storage properties.
- Forests play an important role in the socio-economic development of a country like India.

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Introduction

A **forest** is an area of land dominated by trees. Hundreds of definitions of forest are used throughout the world, incorporating factors such as tree density, tree height, land use, legal standing, and ecological function. The United Nations' Food and Agriculture Organization (FAO) defines a forest as, "Land spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 10 per cent, or trees able to reach these thresholds *in situ*. It does not include land that is predominantly under agricultural or urban use.

Advantages of forests:

- Forests help maintain oxygen levels in the atmosphere, facilitating the breathing of humans and other animals.
- They help reduce soil loss and property damage by slowing the flow during floods
- The plantation of forests provides humans with wood and timber, which can be exported and used in a wide range of applications.
- Forests serve as a habitat for millions of animals.
- Forests provide many important natural medicines.
- Forests help to control the Earth's temperature and combat global warming.
- The natural beauty associated with forests is valuable.
- Forests are responsible for several jobs.
- Forests help regulate the climate and the ecosystem.

Forest administration

The forest administration is the body responsible for implementation of forest policy and forestry issues in a particular country through rules, legislation and financial that means information and forest programs, the forest policy aims to promote the sustainable management and use of forest land resources.

National Forestry Department: At the national level, the administrative structure includes Director General of Forests & Special Secretary (DGF&SS) to the Government of India, Additional Director General of Forests, Inspector General of Forests, Deputy Inspector General of Forests, and Assistant Inspector General of Forests in the MoEF, New Delhi; and it is supported by the Regional Offices headed by Additional Principal Chief Conservator of Forests (APCCF)/Chief Conservator of Forests. There should be adequate number of Chief Conservator/Conservator/Deputy Conservator of Forests for every state in the regional offices so that there is efficient monitoring of the whole process of working plan preparation and adherence to the prescriptions of working plans in all workings/management of forests.

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

FOREST ATTACHMENT

SUBMITTED FOR PARTIAL FULFILLMENT OF

THE DEGREE OF
BACHELOR OF SCIENCE
IN
FORESTRY

(Session: 2021-2022)

FIELD TRAINING

(ATTACHMENT WITH STATE FOREST DEPARTMENT)

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1. HONEY PROCESSING UNIT: KANAN PENDARI

Training officer: Mr. Nitin Kerketta

INTRODUCTION :-

Honey is a sweet food made by bees using nectar from flowers. The variety produced by honey bees (the Genus Apes) is the one most commonly referenced. It is the type of honey collected by beekeepers. Honey has a long history of human consumption, and is used in various foods and beverages but also for use in medicinal purposes. In the forest whenever they used to go for hunting they keep it along and if there is any kind of injury they use it in that part. Most of the time if they don't get food they have it as a sweetener and flavoring. It also has a role in religion and symbolism. Flavors of honey vary based on the nectar source, and various types and grades of honey are available. It is also used in various medicinal traditions to treat ailments. The study of pollens and spores in raw honey can determine floral sources of honey.

Worker bees collect both pollen and nectar from flowers to feed to the larvae and other members of the colony. Nectar is the sweet fluid made by flowers to attract bees and other insects, birds and mammals. Worker bees suck nectar and store it in a pouch-like structure called the crop .They fly back to the live and regurgitate the nectar to other. Honey bees mix the pollen with some nectar to form a mixture called beebread that is a protein-rich food used to feed the larvae. In addition to food, honey bees gather water for use in cooling the inside of the nest on hot days. They also use water to dilute the honey when they feed it to the larvae.



Fig. Honey Processing Unit, Kanan Pendari

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

VILLAGE ATTACHMENT REPORT

SUBMITTED FOR PARTIAL FULFILLMENT OF THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY

(Session: 2021-2022)

SOCIO-ECONOMIC SURVEY OF SELAR VILLAGE, BILASPUR, CHHATTISGARH

Supervised By:

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DECLARATION

I hereby declare that the project work entitled Training report entitled: ***"Socio-Economic Survey of Selar Village, Bilaspur, Chhattisgarh"*** *submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of* ***Dr. Ajay Kumar Singh*** *and this project work has been performed for the award of Bachelor's degree in Forestry.*

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❖ **CHAPTER – 7 (CONCLUSION)**

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CHAPTER-1

INTRODUCTION

1.1 Socio-Economic Survey:-

A socio-economic survey is regarded as one of the most important sources of statistical data on household expenditure and income as well as other data on the status of housing, individual and household characteristics and living conditions.

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resource, resource use and management system and relative importance of resources for households and villages. Also, socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it.

1.2 Definition:-

Socio-economics is the social science that studies how economic activity affects and is shaped by social process. Socio is derived from 'society',which is nothing but a group of people .The first and foremost condition for the development of a society is in its economic conditions. In later, it studies the relation of economics to social values and behaviour.

The field of study that examines social and economic factors to better understand, how the combination of both influences society. Social-economics is refers broadly to the "use of economics in the study of society.

1.3 Importance of socio-economic survey:-

Socio-economic survey is a development activity. In socio-economic we prepare demographic details, household category wise, population report, education status, land holding and cropping pattern, lives stock details of the village.

Annual income and expenditure of families in the village and information regarding every family in the village can be retrieved in any manner required. Once village information is collected and analise the changes that take place in the entire village as well as each individual family.

Socio-economic observation help to get the details about:-

- Profile of the society.
- Demographic profile provides information about health and medical conditions.
- Regarding the educational status and literacy rate.
- Social, political and economic aspects of a territory.

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

TRAINING REPORT

ON

INDUSTRIAL TRAINING

SUBMITTED FOR PARTIAL FULFILLMENT OF THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY

(Session: 2021-2022)

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DECLARATION

I hereby declare that the project work entitled ***"Training report on Industrial Training"*** *submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of* ***Dr. Ajay Kumar Singh*** *and this project work has been performed for the award of Bachelor's degree in Forestry.*

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1. WOOD INDUSTRY

1.1 INTRODUCTION-

The **wood industry** or **lumber industry** is the industry concerned with forestry, logging, timber trade, and the production of primary forest products and wood products (e.g. furniture) and secondary products like wood pulp for the pulp and paper industry. Some of the largest producers are also among the biggest owners of timberland. The wood industry has historically been and continues to be an important sector in many economies.





Fig. Students are receiving knowledge and information about Wood industry

1.1.1 History of use of wood-

The wood economy was the starting point of the civilizations worldwide, since eras preceding the Paleolithic and the Neolithic. It necessarily preceded ages of metals by many millennia, as the melting of metals was possible only through the discovery of techniques to light fire (usually obtained by the scraping of two very dry wooden rods) and the building of many simple machines and rudimentary tools, as canes, club handles, bows, arrows, lances. One of the most ancient handmade articles ever found is a polished wooden spear tip (Clacton Spear) 250,000 years old (third interglacial period), that was buried under sediments in England, at Clacton-on-Sea.

1.2 OBJECTIVE-

- To provide an effective framework for consultation, international cooperation and policy development among all members with regard to all relevant aspects of the world timber economy;
- To provide a forum for consultation to promote non-discriminatory timber trade practices;
- To contribute to the process of sustainable development;
- To enhance the capacity of members to implement a strategy for achieving exports of tropical timber and timber products from sustainably managed sources by the Year 2000;

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(A Central University Established Under Central University Act 2009, No.25 of 2009)

BILASPUR-495009, CHHATTISGARH

SOCIO-ECONOMIC SURVEY OF KANTADIH, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

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*This is to certify that the village attachment report entitled: "**socio-economic survey of village-Kantadih, Raipur, Chhattisgarh**" has been submitted for partial fulfilment of Degree of B.Sc. Forestry to Department of forestry, wildlife and environmental sciences, Guru Ghasidas university, Bilaspur Chhattisgarh, 8th semester of student Nishtha Shrivas Roll no-18007033 under my supervision. Her work was appreciable and satisfactory.*

I wish her success in future academic endeavours.

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DECLARATION

I hereby declare that the project entitled **Socio-Economic Survey of Village Kantadih, Raipur, Chhattisgarh** interpretation or part of it has not been submitted to any degree or diploma of any university. The source of material and all the assistance received during the course of investigation has been duly acknowledged. All the records and data provided in the report are authentic to my knowledge.

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Chapter 1

Introduction

This report is based on the socio-economic survey carried out in village Kantadih, district Raipur. As per the curriculum, B.Sc. (Forestry) VIII semester students were assigned to individual villages to conduct the socio-economic survey. 'A survey can be defined as gathering information about a particular group of people by asking questions to the people A socio-economic survey is collecting ' information on local resource management systems, resource use and relative importance of resources for households and villages. Surveys also provide information on local interaction with the government decision-making systems and community perceptions of trends and priority issues regarding the conservation and establishment of protected forests. Information about various socio-economic aspects of the village was collected such as schemes benefitting the villagers, exposure to health, water and education facilities, etc.

Importance of Socio economic surveys-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

Objectives of Socio-economic study

To study about:

- The local area and various problems of Socio-Economic condition.
- The past and present geography environment.
- The educational status of the particular village and reasons for their educational backwardness
- The economic background of the village and the families.
- The living standards of the villagers.
- The basic amenities water supply, electricity, etc.
- The health and hygiene of the villagers and the medical facilities of the area.
- The transportation & communication facilities.
- The population growth and their views and awareness regarding this.
- The attitude of the parents towards the education of children.

Components of Socio-economic study

* Education
* Health and well-being.
* Land access and use
* Protecting heritage and cultural resources

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(Session: 2021-22)

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I hereby declare that the project entitled ***"Forest attachment"*** interpretation or part of it has not been submitted to any degree or diploma of any university. The source of material and all the assistance received during the course of investigation has been duly acknowledged. All the records and data provided in the report are authentic to my knowledge.

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Chapter 1
Introduction

[2] A **forest** is an area of land dominated by trees. Hundreds of definitions of forest are used throughout the world, incorporating factors such as tree density, tree height, land use, legal standing, and ecological function. The United Nations' Food and Agriculture Organization (FAO) defines a forest as, "Land spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 10 per cent, or trees able to reach these thresholds *in situ*. It does not include land that is predominantly under agricultural or urban use.

Advantages of forests:

- Forests help maintain oxygen levels in the atmosphere, facilitating the breathing of humans and other animals.
- They help reduce soil loss and property damage by slowing the flow during floods
- The plantation of forests provides humans with wood and timber, which can be exported and used in a wide range of applications.
- Forests serve as a habitat for millions of animals.
- Forests provide many important natural medicines.
- Forests help to control the Earth's temperature and combat global warming.
- The natural beauty associated with forests is valuable.
- Forests are responsible for several jobs.
- Forests help regulate the climate and the ecosystem.

Forest administration

The forest administration is the body responsible for implementation of forest policy and forestry issues in a particular country through rules, legislation and financial that means information and forest programs, the forest policy aims to promote the sustainable management and use of forest land resources.

National Forestry Department: At the national level, the administrative structure includes Director General of Forests & Special Secretary (DGF&SS) to the Government of India, Additional Director General of Forests, Inspector General of Forests, Deputy Inspector General of Forests, and Assistant Inspector General of Forests in the MoEF, New Delhi; and it is supported by the Regional Offices headed by Additional Principal Chief Conservator of Forests (APCCF)/Chief Conservator of Forests. There should be adequate number of Chief Conservator/Conservator/Deputy Conservator of Forests for every state in the regional offices so that there is efficient monitoring of the whole process of working plan preparation and adherence to the prescriptions of working plans in all workings/management of forests.

State Forestry Department: In the states, there is no uniformity in the constitution of the working plan wing. A working plan unit (WPU) at the field level should be headed by a

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In

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(Session: 2021-22)

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Chapter 1

Introduction

Forest based industries: The industries that use forest raw material are known as forest-based industries. The major forest-based industries are the paper and pulp industry, match wood industry, Timber and Sandalwood industry, Plywood industries, oil, and biodiesel industry, etc. [1] For developing countries like India, forests are sustenance and survival for a large populace. Forests are renewable resource and contribute towards economic development. Forests occupied a share of 1.7 per cent to gross domestic product (Singh and Beniwal, 1995). At present a large section of population depends upon forests for their livelihood. Forests fulfil the needs of fuel, fodder, energy, housing, and timber, raw material for artisans and industries and employment. The minor forests products including fruits, flowers, seeds, grasses, dyeing and tanning agents, natural gums, resins etc. also contribute to the economy. The role of forests in ecological balance, bio-diversity conservation, food security, protection of soil and water resources, and mitigation of global warming, combating desertification and sustainable development has been widely accepted.

Importance of Forest based industries:

- Forest based industries provide employment opportunities.
- These industries help women become financially independent
- **Rural areas** – the industries help maintain employment and wealth generation in rural areas. They are rich sources of energy, housing, firewood, timber and fodder and they provide employment to a large section of the rural population
- **Low-carbon bio-economy** – the industries have expertise in wood and wood fibre, which is a natural renewable bio-based resource with carbon storage properties.
- Forests play an important role in the socio-economic development of a country like India.

List of Top Forest-Based Industries | Forestry

- Pulp and Paper Industries
- Match Industries
- Timber and Sawn Wood Industries
- Plywood Industries
- Particle Board Industries
- Fibre Board Industries
- Oil and Biodiesel Industries
- Medicinal industries
- NWFP based industries

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Village attachment report

Socio-Economic Survey of Borai Village,Durg (C.G.)

Submitted for partial fulfillment of requirement
for the Degree of
Bachelor of Science in Forestry

(Session 2021-22)

Supervised by-

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This is to certify that the Village attachment report entitled: **"Socio-Economic Survey of Borai village, Durg, Chhattisgarh"** has been submitted for the partial fulfilment of requirement for Degree of **Bachelor of Science in Forestry** to the Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh was carried out by **Mr. Paras Kumar Sahu, B.Sc Forestry, VIIIth Semester** (Roll no.-18007034) under my supervision.

His work was appreciable and satisfactory.I wish him success in future academic endeavour.

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I hereby declare that the present Village Attachment Report entitled: **"Socio-Economic Survey of Borai Village, Durg, Chhattisgarh"** interpretation or part of it has not been submitted for any degree or diploma of any University.The source of material and all the assistance received during the course of investigation have been duly acknowledged.All the records and data given in the report are authentic to my knowledge.

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CHAPTER-1

Introduction

Socio-economics is the social science that studies how economic activity affects and is shaped by social processes. In general it analyzes how modern societies, progress stagnate, or regress because of their local or regional economy.

Socio-economic survey is an assessment between the social and economic habits of the society.Socio-economic links the financial and social issues together.These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and avillages.Also,Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to resolve issues. Socio-economic status is based on income,education level,occupation,social status,perception and various other factors.

Socio economic survey is a statistical data on household expenditure and income as well as other data on the status of housing individual and house characteristics and living condition according to Dr.Vikram Singh ,Department of Social work, GGU

Survey is a research method used for collecting data from a predefined group accordig to Dr. Dilip Bande, Department of Rural Technology,GGU

Importance of Socio-economic Survey

Socio economic survey helps us get data about

- Social Status of people at the Community
- Demographic profile of the Society
- Educational Status and Literacy rates
- Culture and Customs of selected area
- Economic status of the selected society

Aim of the Survey-

The main aim of the Survey was to know about the Social,Political and Economic status of the selected village,recognize positive and negative aspects of that village and to propose ways to solve problems in village.We were appointed as surveyors so that we can get an exposure to the methodologies of Socio-Economic Survey and village lifestyle or livelihood through a practical procedure.

Some purposes of survey are given below-

1. To collect information on demographics:population,residence patterns and ratio of men to woman.
2. To know about the population growth and their views and consciousness regarding this.

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Forest Attachment Report

Submitted for partial fulfillment of requirement for the

Degree of

Bachelor of Science in Forestry

Session 2021-2022

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His work was appreciable and satisfactory.I wish him success in future academic endeavours.

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Chapter-1

Introduction-

Forest survey a complex of tasks that involves the division of a forest into homogeneous areas and the description of the areas. The task performed include a survey of the boundaries of the forest area, the division of the area into compartments and the survey of the compartment grid, the establishment of valuation plots within the compartments, and the compilation of a valuation description gives the area and industrial characteristics of each section of the stands, including the origin, composition, shape, age, density, volume and marketability index (the commercial evaluation) of the stands, as well as the average height and diameter of the trees, the type of forest, and the presence, of seedlings growth and brushwood. In describing unreforested cutting areas, vacant lands and clearing, the possibility of reforestation is determined. The forest survey is preceded by topographic work, which is done mainly by aerial photography.

Forest in India--India is not only famous for its diverse wildlife, architectural marvels and culture, but also for its dense and vast forest cover. Indian climate befits the variety of flora and fauna.

Forest is the second largest land use in India next to agriculture. The forest cover of India is assessed as 67.83 million hectares which constitute 20.64 per cent of the country's geographical area, ranging from the Himalayan Temperate to Dry Zone forests. The National Forest Policy stipulates that one-third of area should be under forest or tree cover. Being a mega-bio diversity country, the nation possesses high level of endemism.

The forests play vital role in harboring more than 45,000 floral and 81,000 faunal species of which 5150 floral and 1837 faunal species are endemic. The nation has established 597 Protected Areas comprising 95 National Parks, 500 Wildlife Sanctuaries, 2 conservation reserves covering 1.56 million ha area or 4.75 per cent geographical area of the country. The rising demand for forest based products and resultant deforestation and encroachment has led to a severe loss of natural resources and destruction of habitat.

Forest areas in Chhattisgarh-

As per the Champion & Seth Classification of Forest Types (1968), the forests in Chhattisgarh belong to two Type Groups i.e Tropical Moist Deciduous Forests and Tropical Dry Deciduous Forests which are further divided into 12 Forest Types. The State's two main tree species are Sal (*Shorea robusta*) and Teak (*Tectona grandis*). Other major species are Bija (*Pterocarpus marsupium*), Saja (*Terminalia tomentosa*), Dhavdha (*Anogeissus latifolia*), Mahua (*Madhuca indica*), Tendu (*Diospyros melanoxylon*) and bamboo (*Dendrocalamus strictus*) etc. The State is rich in mineral resources like, coal, iron, bauxite, limestone, corundum, tin etc which are mainly found in forest areas. About 50% of the villages in the State are located inside five kilometers radius of forests. The inhabitants are mainly tribal, economically backward, non-tribal and landless people who depend significantly on the forests for livelihood and other needs. Thus, the pressure on forests is high in the State. Joint Forest Management (JFM) began in the State in 1991 and as per the latest available report,

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CHAPTER-1

Introduction to Forest based industries

The industries that get their raw material from forests are known as forest-based industries.In other words it means all indstries that rely on access to forested areas, including but not limited to timber, tourism, apiculture, wildflower picking, seed collecting, plywood industry and basic raw materials.The major forest-based industries are the paper and pulp industry, match wood industry,timber and sandalwood industry,Plywoodindustries,oil, and biodiesel industry ,herbal medicine industry etc.

India is fastest growing forest based industries in the world. The growing knowledge base coupled with synergistic contribution from the flagship schemes of the government is giving boost to forest based industries India. India is a leading country in Lac production . 60% of lac in the world is produced here. India is also the largest exporter of Lac in the world.

Types of forest based industries

- Plywood industries
- Paper industries
- Match industries
- Tendu leaves/tobacco/ bidi industries;
- Bamboo
- Soft wood
- Silk industries
- Sericulture
- Sports goods industries

Objectives of Industrial Attachment

The objective of industrial attachment was giving exposure to us about forest based industries,so that we can understand and learn about organizational structure of businesses,raw materials used,processing of raw materials,management of industries,marketing and financial aspects.Overall we got to learn about how forest based industry operate and their scope.

We also learned about challenges and problems associated with industries.We were attached to plywood industry and timber industry details of which is given is chapters ahead.

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(Session: 2021-22)

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This is to certify that the Forest Attachment Report entitled: **FOREST DEPARTMENT OF RAIGARH CHHATTISGARH** submitted for the partial fulfillment of Degree of Bachelor of Science in **Forestry to Department of Forestry, Wildlife& Environmental Sciences,Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh** has been carried out by **Mr. Pawan Kumar Patel** of **B.Sc. Forestry, VIII Semester**, and **Enrollment No. (GGV/18/6023)** under my guidance and supervision.

I wish him all the success in him future academic endeavors.

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Chapter-1
(INTRODUCTION)

1. Industrial Training

Industrial Training refers to the practical training in a company or an industrial environment that helps the students in developing the required skills which will help them in becoming a professional of the future.

PURPOSE

The purpose of Industrial Training is to expose students to real work of environment experience and at the same time, to gain the knowledge through hands on observation and job execution. From the industrial training, the students will also develop skills in work ethics, communication, management and others.

Industrial training is the carefully designed training program under the assistance of the professionals who guides with building exemplary modules. The students are equipped with the practical knowledge and nitty and gritty of technologies. The candidates build skills to sharpen their job acumen.

2. It's Aim & Importance

Aim

The aim of this training is as presented below:-

- To expose students to the working environment of industries on ground level
- To make the student face the pressure and physical burden during that industrial work
- To make the student understand how to handle pressure , real life management skills and the process of manufacturing , storage , marketing , collection of raw materials .
- To make the students understand the problems faced by a particular industry in a certain area.

Importance :-

Industrial Training helps students to develop their skills in the application of theory to practical knowledge. Industrial training helps to develop the skills and techniques which are directly relevant to their desired goals. Industrial Training also increases students' responsibility and good work habits.

3.Objectives

- The objectives of industrial training are:
- To provide students the opportunity to test their interest in a particular career before permanent commitments are made.
- To develop skills in the application of theory to practical work situations.
- To develop skills and techniques directly applicable to their careers.
- The objective of industrial training is to give the student supervised opportunities to experience the essential practical tasks emphasised in their professional study and also to provide opportunities to apply their acquired skills and knowledge in working life.

4.Site selection

As Raigarh is the nearest working environment from my home I choose the industries within Raigarh for my industrial training.

Moreover I choose the above 3 industry due to the following aspects:-

- They were more cooperative , friendly and best suited for my industrial training objectives .
- As my Aim was to work with forest based industry directly or indirectly so I choose the Paper andPulp industry in Raigarh.
- As a typical saw mill comprises logging , transporting, sawing , manufacturing, marketing I choose the Phatte saw mill in Ghate bhandar in Raigarh.
- As Tribal art and culture is a part of forest related conservation indirectly I choose the Dhobilal Jhara Silp Kala , Ektal , Raigarh.

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This is to certify that the Forest Attachment Report entitled: **FOREST DEPARTMENT OF RAIGARH CHHATTISGARH** submitted for the partial fulfillment of Degree of Bachelor of Science in **Forestry to Department of Forestry, Wildlife& Environmental Sciences,Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh** has been carried out by **Mr. Pawan Kumar Patel** of **B.Sc. Forestry, VIII Semester**, and **Enrollment No. (GGV/18/6023)** under my guidance and supervision.

I wish him all the success in him future academic endeavors.

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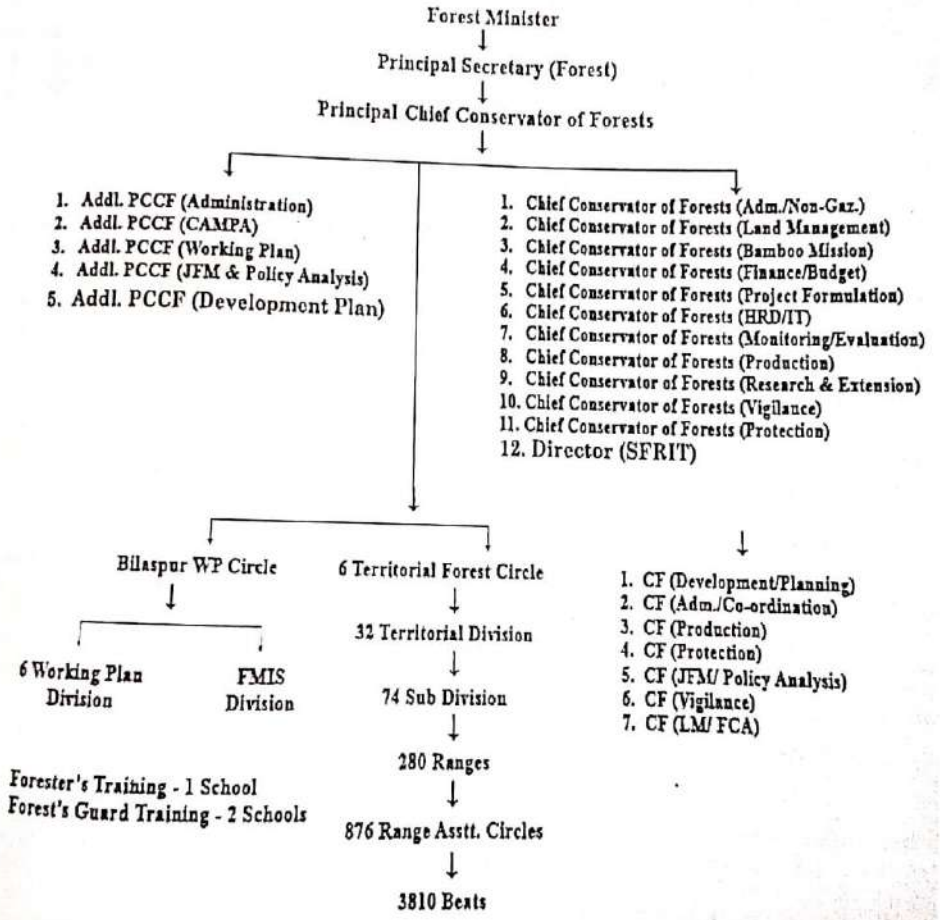
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1.CHHATTISGARH FOREST DEPARTMENT:

INTRODUCTION

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. The whole Chhattisgarh forest is divided into 6 different working circle and circles are divided into coupes and compartments. All 6 working circle have their different management plans as per their requirement. In Chhattisgarh there are 34 forest division and for every division 10 years working plan is made.



ADMINISTRATIVE SETUP OF FOREST DEPARTMENT

1.1 ATTACHMENT WITH CHHATTISGARH FOREST DEPARTMENT

As a student of B.Sc. Forestry VIII semester it is very essential to be aware of building up of all action plans of State Forest Department and their implementation on natural forest. To fulfill the practical knowledge, the Department of Forestry, GGV has organized a training program for Seven days (16th February to 23rd February, 2022). The attachment program was conducted at Forest department, Raigarh .

Here in the working plan office, D.F.O made us feel welcome. He exposed to us about Chhattisgarh Forest department as well as the different running/ future action plans and policies of State Forest Department for the forest development in Raigarh.

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VILLAGE ATTACHMENT REPORT

(SOCIO-ECONOMIC SURVEY OF PALSADA VILLAGE)

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILLMENT OF REQUIREMENTFOR THEDEGREE OF BACHELOR OF SCIENCE IN FORESTRY

SUPERVISED BY:
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Chapter:-1

Introduction

Socio Economic Survey

A socio-economic survey is regarded as one of the most important sources of statistical data on household expenditure and income as well as other data on the status of housing, individual and household characteristics and livingconditions.
The National Sample Survey Office (NSSO) conducts nationwide sample surveys relating to various socio-economic topics to collect data for planning and policy formulation. The Socio-Economic (SE) Surveys are in the form of Rounds, each Round being normally of one-year duration and occasionally for a period of six months. The first Round of NSS was conducted during 1950-51. The subject coverage of SE inquiries for different Rounds is decided on the basis of a 10 year cycle. In this cycle, 1 year is devoted to Land and Livestock Holdings, Debt and Investment; 1 year to Social Consumption (education, health care, etc.), 2 years to quinquennial surveys on household consumer expenditure, employment & un-employment situation and 4 years to non-agricultural enterprises, namely, manufacturing, trade and services in un-organized sector. The remaining 2 years are for open Rounds in which subjects of current/special interest on the demand of Central Ministries, State Governments and research organizations are covered.

The responsibility of executing the field work for SE surveys rests with the Field Operations Division (FOD) of NSSO for central samples and with respective State Governments/Union Territories except Andaman & Nicobar Islands, Dadra & Nagar Haveli, Chandigarh and Lakshadweep for state samples. Before taking up data collection work, multi-stage training programmes are conducted. All-India Training of Trainers (AITOT) is organized to discuss the sampling design, schedules of enquiry and procedures for data collection. The officers who are trained at All-India Training in turn train the field functionaries in Regional Training Camps (RTCs) held at all the Regional Offices of the FOD.

Well qualified and trained field officers/investigators of NSSO and the State Governments collect information through interview method, using the uniform methodology and schedules that are specially designed for the survey. Various instruments, for example, inspection, scrutiny, super-scrutiny of filled-in schedules are used to monitor the fieldwork and to ensure the quality of data collected in the field. Collected data is sent for processing to Data Processing Division. Various publicity measures through print advertisement and visual/digital media are taken to increase the awareness about these surveys among the public/respondents.

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ON

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(Session: 2021-22)

Submitted For Partial Fulfilment of the Requirement for
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CHAPTER-1

INTRODUCTION

A. SOCIO ECONOMIC SURVEY

This survey is conducted in order to obtain information about the social behaviour, trends of people, economic conditions and the trends prevailing in that particular area. The social survey of a community is necessary for planning a new town or renewal programs. This survey deals with the population of the area, age group, size and type of family, language and way of living. The economic survey is conducted to take care of the economical condition and the status of community such as source of income.

B. IMPORTANCE OF SOCIO ECONOMIC SURVEY

For planning purposes of any existing area, socio economic survey is out of utmost importance, because it is only the direct way to come in contact with the residents and to get the real existing data.

C. OBJECTIVES OF SOCIOECONOMIC SURVEY

This kind of survey is carried out for the following objectives.

- To note down the existing socio-economic condition.
- To know the opinion, demands and problems of people.
- To record the people's level of satisfaction and perception of improvement in relation to a plan or programme which is to be implemented?
- To note the people's reaction and acceptability of some already worked out proposals/plans.

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FOREST ATTACHMENT REPORT

ON

FORESTRY OPERATIONS (WORKING EXPIRIENCE)

(Session: 2021-22)

Submitted For Partial Fulfilment of the Requirement for
Bachelor of Science in Forestry

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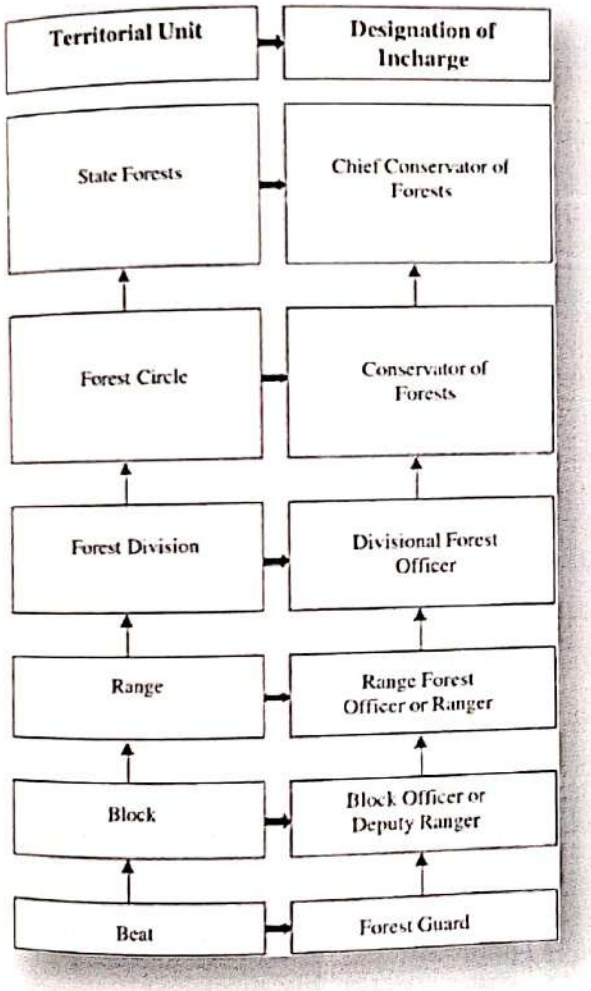
CHAPTER 1

ORGANIZATIONAL SETUP OF FOREST DEPARTMENT

In forestry there are two aspects of organization i.e

1. **FOREST ORGANIZATION** "schematic subdivision and arrangement of forest areas with a view to regular management." It includes :

   a) Working circle- Working circles are divisions of forest into different units each having its own objective and own silvicultural system. Eg if the objective of w/c is timber it will be managed under a shelterwood system, if objective of w/c is recreation it will be managed under the selection system with long rotation.



   b) Division- It is the term used to signify an area containing one or more demarcated and protected or resource-managed forests, for administrative purposes.

   c) Range- 4 to 6 ranges comprise a division. If range is too long it is declared as sub-division

   d) Block- It is the main territorial division of the forest, generally bounded by natural features and bearing a local name each block has a clear cut boundary, all rounded with several pillars.

   e) Beat-Block is further divided to form beat, the basic unit in wildlife surveying such as transects.

   f) Compartments- defined for purpose of administration and record. It is the smallest permanent working plan unit of management, location of work and record. The

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A REPORT ON INDUSTRIAL TRAINING

(Session: 2021-22)

Submitted For Partial Fulfilment of the Requirement for Bachelor of Science in Forestry

Supervised by:

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

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❖ WOOD PRODUCTS AFTER PRIMARY PROCESSING

- **Poles and posts,** and certain mine timbers are products in round form. Poles are used in supporting telegraph and telephone lines and as pilings (foundations for wharves and buildings); posts are used in fences, highway guards, and various supports. As a rule, roundwood products are subjected to preservative treatment. The bark is removed in the forest or factory, and poles and posts are further processed by shaving to remove surface irregularities, by framing (boring holes and making necessary cuts), and by incising (punching slitlike depressions to facilitate the entrance of preservative chemicals).
- **Sawn wood**

  Lumber is the main sawn wood product that is the wood that has been processed and finished into beams and planks.
- **Veneer** is a thin sheet of wood of uniform thickness and finest expression of wood. It is the thin decorative covering of wood applied to any other material and maximises the use of harvested wood.
- **Plywood and laminated wood** are both made of layers (laminae) of wood glued together. The basic difference is that in plywood the grain of alternate layers is crossed, in general at right angles, whereas in laminated wood it is parallel

- **Particleboard**, is manufactured of particles of wood glued together. Particles are flakes or flake like forms such as wafers and strands, planer shavings, slivers (or splinters), and fines produced from wood by cutting, breaking or friction.
- **Pulp and Paper**- Wood is the main source

  Pulping processes are of three principal types: mechanical, or grinding; chemical, or cooking with added chemicals; and semichemical, or a combination of heat or chemical pretreatment with subsequent mechanical reduction to fibres.

  Paper manufacture involves beating or refining (defibring) the pulp, sizing and filling or loading (introducing various additives), and running the pulp into the proper machine

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TRAINING REPORT
ON
SOCIO –ECONOMIC SURVEY
OF VILLAGE -KOLIHA

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

SUBMITTED TO:

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Department of Forestry,

Wildlife & Environmental Sciences

SUBMITTED BY:

Pitamber Lal Sahu

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1. INTRODUCTION:

SOCIO-ECONOMIC SURVEY

Socio - Economic survey is an important part of education to know the status of the people of various societies. The sole aim of the Socio Economic planning of our country is to transform the socio -economic condition of the people living in the rural areas. Since the independence of our country, more than 65% of the population have settled in rural areas, where the problem of poverty unemployment and improper living condition prevail and have persisted for long these problems have not attain the adequate importance in policy made by the government. Though there is some progress seen in the economic conditions of the people and to bring about development and transformation in Socio-Economic condition and it is necessary to analyses the socio-economic condition of the rural areas and put forward the suggestions for the steps to be taken in order to solve the problems prevailing in the rural areas.

SOCIO-ECONOMIC ASSESSMENT:

A socioeconomic assessment is a way to learn about the social, cultural, economic and political conditions of any village including individuals, groups, communities or the entire area. The socioeconomic study is intended to:

- Assess the prevailing socioeconomic conditions in the study site. This includes provision of a baseline study and characterizing the existing state of the study site. This will assist in identifying the main areas of concern.
- Analyze the impacts of the prevailing study on the socioeconomic structure of the study sites.
- Develop a set of guidelines for judging the local conditions.

Accordingly, the following section will be concerned with listing all possible socioeconomic impacts and the indicators used to estimate their conditions followed by a general discussion of the methodology usually employed in conducting socioeconomic survey.

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TRAINING REPORT

ON

INDUSTRIAL TRAINING

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

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CHAPTER-01

INTRODUCTION

A Sawmill is a facility where logs are cut into lumber. Sawmill is a place where the cuttings of wood takes place. A sawmill's basic operation is much like those of hundreds of years ago; a long enters on one end and dimensional timber exist on the other end. In a saw mill we can cut the logs in various shape and sizes. There were number of saw mills present in this region and they got permission for the setup of mill also. They have to take permission from the forest department and the department gives them separate license for separate machine.

Sawmill is not an ordinary place, license is provided by the forest department and normal people cannot go inside the saw mill until they have permission for visiting. Regular visit of forest officials also takes place monthly to check the mill weather any illegal work is done or not.

Some important points to be considered –

- Saw mill should have license.
- The electricity department also keeps a keen eye in the work of saw mill
- The permission of three phase meter should have to the owner.
- Separate permission for each machine should be taken from the forest department.
- Ilegal felled wood logs should not be presented in the depot of saw mill.

OBJECTIVES OF SAW MILL'S SURVEY

To know the actual use of the wood lots and other balli and chiran wood, the purchasing of the wood, status of different timber used in frequent way and the status of forest. Further illegal work done by the saw mill owners and their current status of working.

SAW MILL'S LICENSE

License is the basic requirement for starting of any saw mill and they have to renew it every year. There are two types of license which are provided by the Forest department to any saw mills. Which are –

1. Saw mill license (Public Service)

2. V-Nirmata

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TRAINING REPORT

ON

FIELD TRAINING (ATTACHMENT WITH STATE FOREST DEPARTMENT)

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

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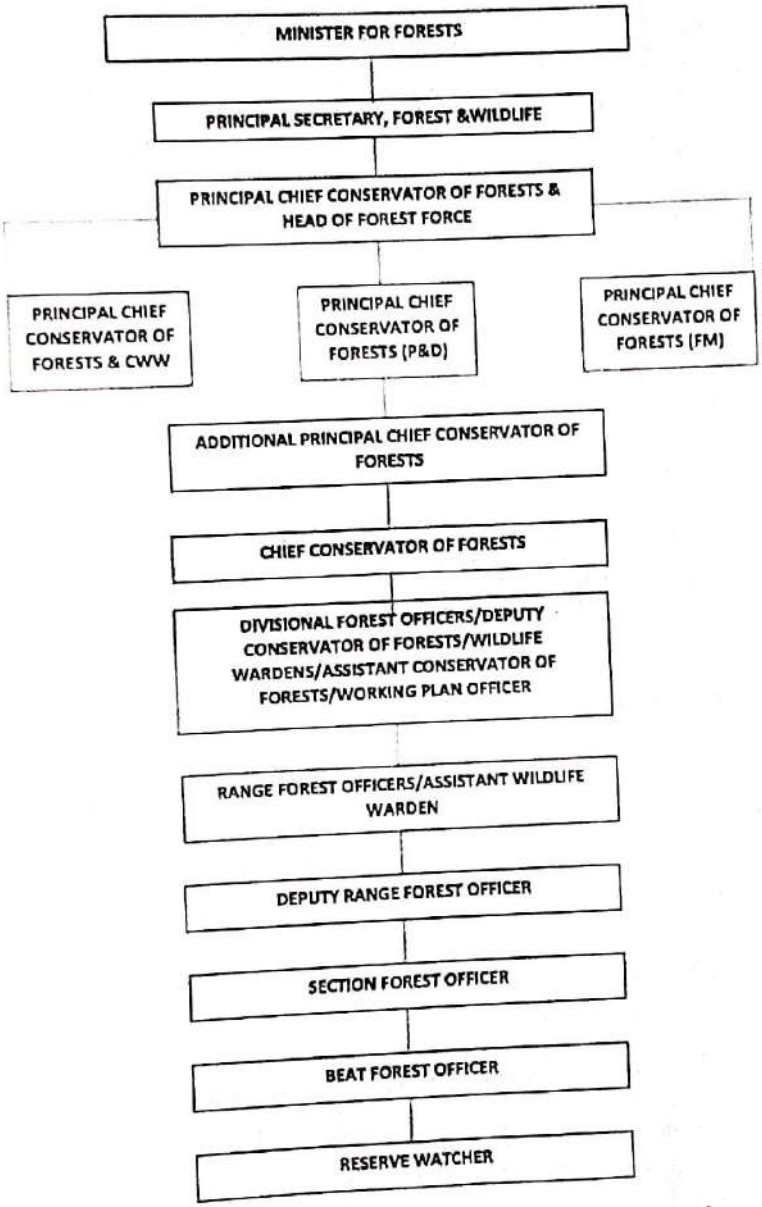
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1. CHHATTISGARH FOREST DEPARTMENT: INTRODUCTION

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. The whole Chhattisgarh forest is divided into 6 different working circle and circles are divided into coupes and compartments. All 6 working circle have their different management plans as per their requirement. In Chhattisgarh there are 34 forest division and for every division 10 years working plan is made.

ADMINISTRATIVE SETUP OF FOREST DEPARTMENT



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DECLARATION

I hereby declare that the project work entitled ***"Training report on Field Training (Attachment with State Forest Department, 'Durg')"*** *submitted to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of* ***Dr.Brijendra Pratap Singh*** *and this project work has been performed for the award of Bachelor's degree in Forestry.*

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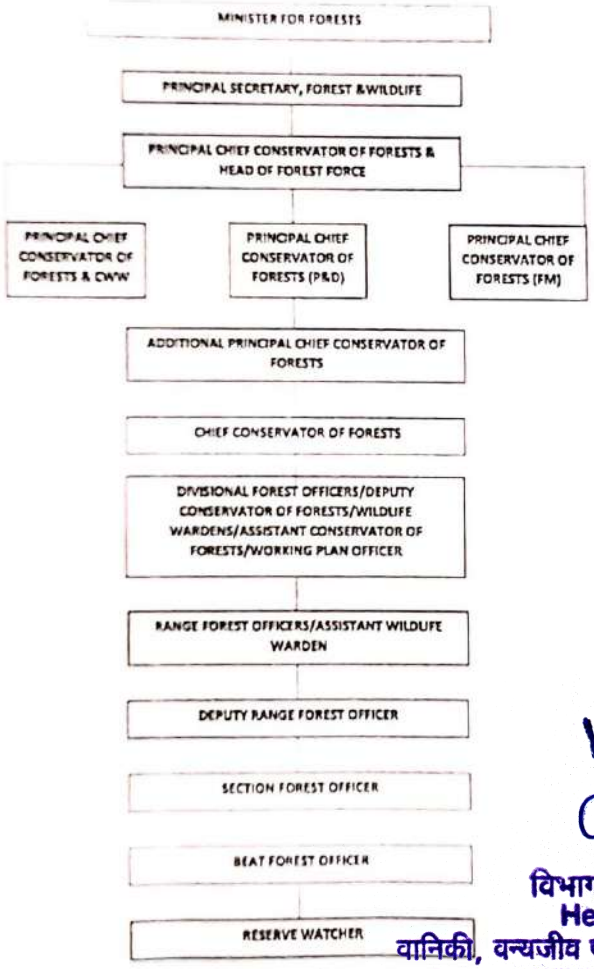
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1. CHHATTISGARH FOREST DEPARTMENT: INTRODUCTION

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. The whole Chhattisgarh forest is divided into 6 different working circle and circles are divided into coupes and compartments. All 6 working circle have their different management plans as per their requirement. In Chhattisgarh there are 34 forest division and for every division 10 years working plan is made.

ADMINISTRATIVE SETUP OF FOREST DEPARTMENT



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TRAINING REPORT

ON

INDUSTRIAL TRAINING

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

SUBMITTED TO:
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1.SAWMILL

Sawmill is the small scale industry, in which the log are cut into lumbers and later lumber is cut into boards. In industrial terms sawmill is a wood based industry where large pieces of wood are cut into small and useable sizes, which are then used for making various household articles like bed, table, chairs and sofas etc.

Process at Sawmill

- Lumber are purchased by sawmills at the auction conducted by forest Department.
- Sometime standing trees are also auctioned.
- After trees are selected for harvest, the next step in logging is felling the trees, and bucking them to length.
- Branches are cut off the trunk. This is known as lambing.
- Logs are taken by logging truck, rail or a log drive to sawmill.
- Logs are scaled either on the way to the mill or upon arrival at the mill.
- Debarking removes bark from the logs.
- Decking is the process for sorting the logs by species, size and end use (Lumber, plywood, chips).
- The head saw, head rig or primary saw, breaks the log into cants (Unfinished logs to be further processed) and flinches (unfinished planks) with a smooth edge.
- Edging will take the flitch and trim off all irregular edges leaving four-Sided lumber. Trimming squares the ends at typical lumber lengths.
- Drying removes naturally occurring moisture from the lumber. This can be done with Seasoning.
- Planning smooth the surface of the lumber leaving a uniform width and Thickness.
- Shipping transports the finished lumber to market.

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TRAINING REPORT
ON
SOCIO –ECONOMIC SURVEY
OF VILLAGE - BHURWAL

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

SUBMITTED TO:
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CHAPTER-1
INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behavior and economics, and it examines how social norms, ethics and other social philosophies that influence consumer behavior shape an economy, and uses history, politics and other social sciences to examine potential results from changes to society or the economy. Socioeconomics refers broadly to the "use of economics in the study of society." In general, it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

1.4 SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors. These aspects and variables could, in general, be categorized into several categories including, economic, demographic, public services, fiscal and social. The social aspects may, for instance, involve community life as well as social and cultural attitude and values. Community services may meanwhile be concerned with housing and requirements for public services such as water, sanitation, communications, police and fire protection facilities, solid waste disposal as well as health and educational services. Demographic aspects may includepopulation growth structures, distribution and density. Similarly, economic factors may include general characteristics, structures and changes various economic activities and employment.

A socioeconomic assessment is a way to learn about the social, cultural, economic and political conditions of any village including individuals, groups, communities or the entire area.

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TRAINING REPORT

ON

FOREST ATTACHMENT

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE

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CHAPTER 1

NURSERY MANAGEMENT

Nursery refers to an area from which seedlings are raised for eventual planting out.

Nursery management:-nursery management may be define as the sum of the activities performed for the successful production,care and marketing of different planting material.

DETAILS ABOUT VISITED NURSERY:-

Fadhakhar nursery which is 9 k.m. away from Nehru chowk bilaspur

Total area of fadhakhar nursery is 2 hectare.

Total 3 staff work in this nursery and also 10 workers are work under manrega yojn

IMPORTANCE OF NURSERY:-

Establishment of nurseries is important for the following reason:

- Production of proposed size and age of seedling.
- Production of the desired number of seedling.
- Produvtion of healthy plants of superior quality.
- Production of desired plants at the right time.
- Production of seedlings at cheaper cost.

CAMPA

Compensatory Afforestation Fund Management and Planning Authority (CAMPA) are meant to promote afforestation and regeneration activities as a way of compensating for forest land diverted to non-forest uses. National CAMPA Advisory Council has been established that lays down broad guidelines for State CAMPA. The prime task of State CAMPA would be regenerating natural forests and building up the institution engaged in this task in the State Forest Department

SELF HELP GROUP

A self help groupis a financial intermediary committee usually composed of 12 to 25 local women between the age of 18 and 50. Most self-help group are in india.

Self help group of poor people the member of an SHG face similar problem. They help eachother to solve their problem. SHGs promotesmall saving among their members.the saving are kept with the bank

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TRAINING REPORT

ON

SOCIO-ECONOMIC SURVEY

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

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DECLARATION

I hereby declare that the project work en tled **"Training report on Socio-Economic Survey "** submi ed to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of **Dr.Brijendra Pratap Singh** and this project work has been performed for the award of Bachelor's degree in Forestry.

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

Rajat kumar yadav

B.Sc. Forestry 8th Semester
Roll no:18007039
Enrolment no: GGV/18/6029

Date:
Place:

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TRAINING REPORT

ON

INDUSTRIAL TRAINING

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

SUBMITTED TO:
Dr.Brijendra pratap Singh
Department of Forestry,
Wildlife & Environmental
Sciences

विभागाध्यक्ष
Head
वानिकी, वन्यजीव एवं पर्यावरण विभाग
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SUBMITTED BY:
Rajat kumar yadav
B.Sc. Forestry 8th Semester
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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

(A central university established under Central Universities Act 2009, No. 25 of 2009)

CERTIFICATE

I have great pleasure in certifying that ***Mr. Rajat kumar yadav*** *s/o* ***Raj kumar yadav*** *is a regular student of B.Sc. Forestry 8th Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur. He has completed this Computer Application training entitled* ***"Training report on industrial training"*** *during this semester under my guidance.*

I wish him all the success in his academics.

Dr.Brijendra pratap Singh

Assistant Professor

Department of Forestry,

GGV,Bilaspur

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Head
वानिकी, वन्यजीव एवं पर्यावरण विभाग
rtment of Forestry, Wildlife and Environmental Science
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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

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DECLARATION

I hereby declare that the project work entitled ***"Training report on Industrial Training "*** *submitted to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of* ***Dr.Brijendra Pratap Singh*** *and this project work has been performed for the award of Bachelor's degree in Forestry.*

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B.Sc. Forestry 8th Semester

Roll no:18007038

Enrolment no: GGV/18/6028

Date:
Place:

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HERBAL MEDICINAL PROCESSING CENTER

INTRODUCTION

Product made from botanicals ,or plants that are used to treat diseases or to maintain health are called herbal product,or phytomedicines.

A product made from plants and used solely for internal use is called an herbal supplement.there are approximately 75-100 kinds of herbs and flowers in the national library of medicines herb garden. Plants havea long and rich history of medicine use and even in the era of modern medicine their medicine properties are still sought after.

An herb is a plant or plant part used for its scent,flavor or therapeutic properties.

VISITED SITE

VAGBHAT VAN AUSADHI VATIKA which is 45 km away from the bilaspur.

Working group	Haribol swa. Sahayta samuh
Organization	Van prabandhan samiti doganala
Forest zone	Pali forest zone
Forest division	Katghora
District	Korba
Area	445.3hecare





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A REPORT ON

FOREST ATTACHMENT

SESSION 2021-22

BACHELOR OF SCIENCE IN FORESTRY (4YEARS)

DEPARTMENT OF FORESTRY WILDLIFE , AND ENVIRONMENTAL SCIENCE

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR

nder The Guidance By:-

r. Brijendra Singh

ssistant Professor

विभागाध्यक्ष
Head
वानिकी, वन्यजीव एवं पर्यावरण विभाग
rment of Forestry, Wildlife and Environmental Science
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Submitted By:-

Ritu Maravi

B.Sc. Forestry 8th

Roll No. 18007042

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G)

(A central university established under Central Universities Act 2009, No. 25 of 2009)

CERTIFICATE

I have great pleasure in certifying that **Miss.RITU MARAVI** D/O **Mr. R.L. MARAVI** is a regular student of B.Sc. Forestry 8th Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Science. He has completed this forest attachment training entitled "Forest Attachment Report- , Chhattisgarh" during this semester under my guidance. I wish him all the success in his academics.

Supervisor
Brijendra Pratap Singh
Assistant Professor
Department of
Forestry, Wildlife and
Environmental Science

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

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DECLARATION

I hereby declare that the project work entitled **"forest attachment report"**submitted to Guru Ghasidas Vishwavidyalaya is record of an original work done by me under the guidance of **Dr.Brijendra pratap singh** and this project work has been formed for the award of Bachelor of Science Degree in Forestry.

Date:

Place:

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Submitted By:-

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B.Sc. Forestry

Roll No. 1800742

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Chapter -1

FOREST ADMINISTRATION

The forest administration is the body responsible for implementation of forest policy and forestry Issues in a particular country through rules, legislation and financial that means information and forest programs, the forest policy aims to promote the sustainable management and use of forest land resources.

State Forestry Department:

The State Forestry Department is responsible for the administration and regulation of forest harvesting, forest revenue collection and development of the state forest resources. The Department also plans and coordinates the development of wood-based industries. The State Forestry Department is divided into Forest Operations and Forest Development Divisions and supported by District Forest Offices.

Development Divisions and supported by District Forest Offices.

Forest Development Division:

Responsible for planning, implementing and monitoring of forest management and development activities, including biodiversity conservation, ecotourism development and forest rehabilitation as well as the preparation and implementation of the State Forest Management Plan.

District Forest Office:

Responsible for administration, controlling forest harvesting, forest revenue collection and forest law enforcement. The office is also responsible for implementing forest management and development activities including the management of forest eco-park and state forest park.

Forest administration management:

Forest management is the process of planning and implementing practices for the stewardship and use of forests and other wooded land to meet specific environmental, economic, social and cultural objectives. It deals with the overall administrative, economic, legal, social, technical and scientific aspects related to natural and planted forests. It may involve varying degrees of deliberate human intervention, ranging from actions aimed at safeguarding and maintaining forest ecosystems and their functions, to those favoring specific socially or economically valuable species or groups of species for the improved production of forest goods and services.

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SOCIO-ECONOMIC SURVEY OF LUFA VILLAGE, BILASPUR, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

For the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

SUPERVISED BY:
DR.BIJENDRA PRATAP SINGH
Assistant Professor
Department of Forestry, wildlife
And Environmental Sciences

SUBMITTED BY:
RITU MARAVI
B.Sc. Forestry
VIII Semester
Roll no. 18007042
Enrollment No:GGV/18/6141

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

GURU GHASIDAS VISHWAVIDYALAYA
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Guru Ghasidas Vishwavidyalaya, Bilaspur, (C.G.)

(A Central University Established Under Central University Act 2009, No. 25 of 2009)

CERTIFICATE

I have great pleasure in certifying that Mrs. Ritu Maravi D/o R.L. Maravi is a regular student of B.Sc. Forestry VIIIth Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences. He has completed field training entitled, "**Socio-Economic Survey of Village Lufa**" under my guidance.

I wish him all success in his future academic endeavours.

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Dr. Brijendra Pratap Singh
Assistant Professor
Department of forestry,
Wildlife & Environmental
Science

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DECLARATION

I hereby declare that the field training entitled, "Attachment With State Forest Department, Bilaspur Forest Circle" submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me with Forest Department and has not been submitted elsewhere for the award of any other degree. The facilities, cooperation and the assistance received during the field training is duly acknowledged.

Ritu Maravi

B.Sc. Forestry

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Roll No. – 18007042

Enrollment No. - GGV/18/6141

Signature

Date

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

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A REPORT ON

INDUSTRIAL TRANNING

SESSION 2021-22

BACHELOR OF SCIENCE IN FORESTRY

(4YEARS)

DEPARTMENT OF FORESTRY WILDLIFE , AND

ENVIRONMENTAL SCIENCE

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR

SUPERVISED BY :-
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SUBMITTED BY :-
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CERTIFICATE

I have great pleasure in certifying that Miss. **Ritu Maravi** D/o **R.L. Maravi** is a regular student of B.Sc. Forestry **VIIIth Semester** during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences. He has completed field training entitled, **"Training Report on Industrial Training"** under my guidance.

I wish him all success in his future academic endeavours.

Dr. Brijendra Pratap Singh
Assistant Professor
Department of forestry,
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DECLARATION

I hereby declare that the **Project Work** entitled, "" submitted to Guru Ghasidas Vishwavidyalaya is a record of a"**Training Report on Industrial Training** n original work done by me with Forest Department and has not been submitted elsewhere for the award of any other degree. The facilities, cooperation and the assistance received during the field training is duly acknowledged.

Ritu Maravi

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VIIIth Semester

Roll No. – 18007042

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Signature

Date

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CHAPTER -1

SAW MILL AND SHOP VISIT

Saw mill—INTRODUCTION

A factory in which logs are sawn into planks or boards by machine .a sawmill or lumber mill is a facility where logs are cut into lumber .morden sawmills use a motorized saw to cut logs lengthwise to make long pieces ,and crosswise to length depending on standard or costom sizes .the portable sawmill is of simple operation A saw mill is a facility where logs are cut into lumber .sawmill is a place where the cutting of wood takes place. A sawmill s basic operation is much like those of hundreds of years . ago a long enters on one end and dimensional timber exist on the other end .an saw mill we can cut the logs in various shape and size s.

Some important point to be considered—

- Saw mill should have license .
- The electricity department also keeps a keen eye in the work of saw mill.
- The permission of three phase meter should have to be the owner .
- Separate permission for each machine should be taken from the forest department .

OBJECTIVES OF SAW MILLS SURVEY –

To know the actual use of the wood lots and other balli and chiran wood ,the purchasing of the wood, status of different timber use in frequent way and the status of forest. Further illegal work done by the saw mill owner s and their current status of working.

SAW MILL'S LICENCE

License is the basic requirement for starting any saw mill and they have to renew it every year. There are two types of license which are provided by the forest department to any saw mills. Which are –

1. Saw mills license(Public Service)
2. V-Nirmata

When the license is given to the any miller than it is of different power (watt) for different machine and separate license is given for the seprate machine .

विभागाध्यक्ष
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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

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SOCIO -ECONOMIC SURVEY OF CHHOTE SIPAT VILLAGE BILASPUR CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted For PartialFullfilment for the Degree of (Bachelor of sciencein Forestry)

(Session:2021-22)

SUPERVISED BY:
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Assistant Professor
Department of Forestry, wildlife
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SUBMITTED BY:
SANDHYA LAHARE
B.Sc. Forestry
VIII Semester
Roll no. 18007043
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...uru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

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Guru Ghasidas Vishwavidyalaya, Bilaspur, (C.G.)

(A Central University Established Under Central University Act 2009, No. 25 of 2009)

CERTIFICATE

I have great pleasure in certifying that Mis. **Sandhya lahare.** D/o **Hem kumar lahare** is a regular student of B.Sc. Forestry 8th Semester during the session of **2021-22** of Department of Forestry, Wildlife and Environmental Sciences. She has completed field training entitled, "**Socio-Economic Survey of Village Chhotesipat"** under my guidance.

I wish him all success in his future academic endeavours.

Dr.Atul Bharadwaj
Assistant Professor
(Supervisor)

Signature
Date

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DECLARATION

I hereby declare that the field training entitled, "Attachment With State Forest Department, Bilaspur Forest Circle" submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me with Forest Department and has not been submitted elsewhere for the award of any other degree. The facilities, cooperation and the assistance received during the field training is duly acknowledged

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CHAPTER – 1

INTRODUCTION

1.1 Socio-economic Survey

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. A socio economic survey is regarded as one of the most important sources of statistical data on household expenditure and income as well as other data on the status of housing , individual ,and household characteristics and living conditions .

1.2 Definition

Socio-economic is the field of study that examines social and economic factors to better understand how the combination of both influences society. Socio-economics is refers broadly to the "Use of economics in the study of society."

Socio-economics is the social science that studies how economic activity affects and is shaped by social process. Socio is derived from 'Society', which is nothing but a group of people. The first and foremost condition for the development of a society is in its economic conditions. In the later, it studies the relation of economics to social values and behavior.

1.3 Importance of Socio-economic Survey

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions in village .

1.4 Socio-economic Assessment

Socio-economic survey is an intervention which lets organization validate their strategic decisions.Socio-economic assessment is a way to figure out the positive and negative factors and various prevailing conditions of the village.

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SOCIO-ECONOMIC SURVEY OF BATANG VILLAGE, DURG, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

SUBMITTED FOR PARTIAL FULFILLMENT OF REQUIREMENT FOR THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY WILDLIFE AND ENVIRONMENTAL SCIENCES

(SESSION 2021-2022)

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Her work was appreciable and satisfactory.

I wish her all the success in her future academic endeavors.

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I hereby declare that the Village Attachment Report entitled; "**SOCIO ECONOMIC SURVEY- VILLAGE ATTACHMENT**" interpretation or part of it submitted to Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh is a record of an original work done by me and has not been submitted elsewhere for the award of any other degree. The facilities, cooperation and the assistance received during the Online training is duly acknowledged.

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INTRODUCTION

• SOCIO ECONOMIC SURVEY

A socio-economic assessment is a way to learn about the social, cultural, economic and political conditions of any village including individuals, groups, communities or the entire area.

Socio-economic survey is an intervention which lets organizations validate their strategic decisions. By conducting socio-economic surveys, you get a lot of data about the social, political and economic aspects of a territory. This data helps you visualize the current scenario and consequences of your decision.

The term 'Social economic' may refer broadly to the "use of economic in the study of society." More narrowly, contemporary practice considers behavioral interactions of individuals and groups through social capital and social "markets" and the formation of social norms. In the latter, it studies the relation of economic to social values.

To bring about the economic development the transformation of Socio-economic condition and control of population growth is necessary. Hence, it is the need of the hour to analyses the socio-economic condition of the rural areas and put forward the suggestions for the steps to be taken in order to solve the problems prevailing in the rural areas.

- **The socio-economic study is intended to:**

1. Assess the prevailing socio-economic conditions in the study site: This includes provision of a baseline study and characterizing the existing state of the study site. This will assist in identifying the main areas of concern.

2. Analyse the impacts of the prevailing study on the socio-economic structure of the study sites: This will help in identifying various problems of the village and provide us with a set of guidelines to remove existing problems.

3. Development of action plan or village development programme: All the data collected help in development of a set of guidelines for action plan for development of village. These guidelines provide as a basis to work.

Socio-Economic survey is a very development activity. In socio-economic we prepare demographic details, household category wise, population report, education status, land holding and cropping pattern, lives stock details of the village. This survey report is a modest attempt to develop an awareness and insight to Socio-Economic Study of the various social, cultural and economic aspects of the population residing at "Batang" village.

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REPORT ON FIELD TRAINING

(ATTACHMENT WITH STATE FOREST DEPARTMENT REPORT)

SUBMITTED FOR PARTIAL FULFILLMENT OF REQUIREMENT FOR THE DEGREE OF BACHELOR OF SCIENCE IN FORESTRY WILDLIFE AND ENVIRONMENTAL SCIENCES

(SESSION 2021-2022)

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This is to certify that the Forest Attachment Report entitled: **"FOREST ATTACHMENT REPORT"** submitted has been for the partial fulfillment of Degree of Bachelor of Science in Forestry to the Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Ms. Sefali Sahu B.Sc. Forestry, VIIIth Semester student, and Enrollment No. (GGV/18/6151) under my supervision.

Her work was appreciable and satisfactory.

I wish her all the success in her future academic endeavors.

Dr. Atul Kumar Bhardwaj

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1. INTRODUCTION

Recorded forest area in the State is 59,772 sq km of which 25,786 sq km is Reserved Forest, 24,034 sq km is Protected Forest and 9,952 sq km is Unclassed Forest. In Chhattisgarh, during the period 1st January 2015 to 5th February 2019, a total of 3,793.05 hectares of forest land was diverted for various non-forestry purposes under the Forest Conservation Act, 1980 (MoEF&CC, 2019).

As per the Champion & Seth Classification of Forest Types (1968), the forests in Chhattisgarh belong to two Type Groups i.e., Tropical Moist Deciduous Forests and Tropical Dry Deciduous Forests which are further divided into 12 Forest Types. The State's two main tree species are Sal (Shorea robusta) and Teak (Tectona grandis). Other major species are Beeja (Pterocarpus marsupium), Saja (Terminalia tomentosa), Dhavdha (Anogeissus latifolia), Mahua (Madhuca indica), Tendu (Diospyros melanoxylon) and bamboo (Dendrocalamus strictus) etc. The State is rich in mineral resources like, coal, iron, bauxite, limestone, corundum, tin etc. which are mainly found in forest areas. About 50% of the villages in the State are located inside five kilometers radius of forests.

The inhabitants are mainly tribal, economically backward, non-tribal and landless people who depend significantly on the forests for livelihood and other needs. Thus, the pressure on forests is high in the State. Joint Forest Management (JFM) began in the State in 1991 and as per the latest available report, there are 7,887 JFMCs covering an area of 33,19,000 hectares & involving 11,17,000 families.

➢ PROTECTED AREA: -

Three National Parks and 11 Wildlife Sanctuaries constitute the Protected Area network of the State covering 4.93% of its geographical area.

➢ FOREST COVER: -

Based on the interpretation of IRS Resourcesat-2 LISS III satellite data of the period Nov 2017 to January 2018, the Forest Cover in the State is 55,610.57 sq km which is 41.14 % of the State's geographical area.

In terms of forest canopy density classes, the State has 7,067.72 sq km under Very Dense Forest (VDF), 32,197.56 sq km under Moderately Dense Forest (MDF) and 16,345.29 sq km under Open Forest (OF). Forest Cover in the State has increased by 63.57 sq km as compared to the previous assessment reported in ISFR 2017.

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FOREST ATTACHMENT REPORT

SUBMITTED FOR PARTIAL FULFILMENT OF REQUIREMENT FOR THE DEGREE OF BACHELORS OF SCIENCE IN FORESTRY

Session: 2021-2022

DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCE

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CERTIFICATE

I have great pleasure in certifying that Mr. Shashwat Sheit is a regular student of B.Sc Forestry VIII Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Science. He has completed this "FOREST ATTACHEMENT TRAINING" With the support of Chhattisgarh forest department during this semester under my guidance. I wish him all the success in his academics.

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DECLARATION

I hereby declare that the project work entitled ***"REPORT ON FOREST ATTACHEMENT TRAINING"*** *submitted to Guru Ghasidas Vishwavidyalaya is record of an original work done by me under the guidance* ***of Dr Atul kumar Bhardwaj and Dr. Anupama Mahato*** *and this project work has been performed for the award of Bachelor of Science Degree in Forestry.*

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CHAPTER 1

INTRODUCTION

This is a report based on "Forest management and working plan of forest". Forest Attachment training includes all the basic and important information about the forest and different works performed.

The information is helpful in many ways and considered through a average perspective.

Details of the forest and forest based works are taken into account and are useful in many ways for the growth and conservation of the forest, environment & wildlife .

Different Attachment officers and forest staff members helped us with the training and provided us with productive knowledge and learnings.

Further you will find the different topics covered while the forest attachment training in detail.



Figure 1 B.sc Forestry 8th Semester on field

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SOCIO-ECONOMIC REPORT

SUBMITTED FOR PARTIAL FULFILMENT OF REQUIREMENT FOR THE DEGREE OF BACHELORS OF SCIENCE IN FORESTRY

Session: 2021-2022

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CERTIFICATE

I have great pleasure in certifying that Mr. Shashwat Sheit is a regular student of B.Sc Forestry VIII Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Science. He has completed this Socio-Economic Survey of Village entitled "Village attachment report- Socio-Economic Survey of Village Hirmi" during this semester under my guidance. I wish him all the success in his academics.

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DECLARATION

I hereby declare that the project work entitled **"Training report on Village attachment report: Socio-Economic Survey of Village Hirmi"** submitted to Guru Ghasidas Vishwavidyalaya is record of an original work done by me under the guidance of ***Dr Atul kumar Bhardwaj and Dr. Anupama Mahato*** and this project work has been performed for the award of Bachelor of Science Degree in Forestry.

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CHAPTER 1

Introduction

This is a report based on socio-economic survey of a village. Socio-economic survey includes all the basic and important information about the village and the people living there.

The information is helpful in many ways and considered through a average perspective.

Details of the families and facilities present in the village are taken into account and are useful in many ways for the growth of the village.

Definitions

- **Socio-economic Survey:-**

  A socio-economic survey is regarded as one of the most important sources of statistical data on household expenditure and income as well as other data on the status of housing, individual and household characteristics and living conditions.

  The economic survey holds significance as it apprises common people about the state of economic affairs of the country and makes them affair about the key economic decisions of the government which impact their lives in a considerable way.

- **Questionnaire:-**

  A list of questions that are answered by many people of a particular area, village or city. A questionnaire is used to collect information about a particular subject.

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INDUSTRIAL TRAINING REPORT

SUBMITTED FOR PARTIAL FULFILMENT OF REQUIREMENT FOR THE DEGREE OF BACHELORS OF SCIENCE IN FORESTRY

Session: 2021-2022

DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCE

GURU GHASIDAS VISHWAVIDYALAYA

BACHELOR OF SCIENCE IN FORESTRY (4YDC)

GURU GHASIDAS VISHWAVIDYALAYA, KONI, BILASPUR

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

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CERTIFICATE

I have great pleasure in certifying that Mr. Shashwat Sheit is a regular student of B.Sc Forestry VIII Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Science. He has completed this "FOREST ATTACHEMENT TRAINING" With the support of Chhattisgarh forest department during this semester under my guidance. I wish him all the success in his academics.

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I hereby declare that the project work entitled **"REPORT ON FOREST ATTACHEMENT TRAINING"** submitted to Guru Ghasidas Vishwavidyalaya is record of an original work done by me under the guidance **of *Dr Atul kumar Bhardwaj and Dr. Anupama Mahato*** and this project work has been performed for the award of Bachelor of Science Degree in Forestry.

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CHAPTER 1

INTRODUCTION

This is a report based on "Industrial training and working plan and structure of forest based industries". Industrial training includes all the basic and important information about the forest based industries, how these industries perform and how they help in the market.

The information is helpful in many ways and considered through a average perspective.

Details of the forest and forest based works and market requirements are taken into account and are useful in many ways for the growth of the market and the economy.

Different Attachment officers and particular industry staff members helped us with the training and provided us with productive knowledge and learnings.

The industrial training not only helps us to know how forest based industries work but also tells what opportunities a forestry student can get in industrial field.

Further you will find the different topics covered while the Industrial attachment training in detail.

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(VILLAGE ATTACHMENT REPORT)

SOCIOECONOMIC SURVEY OF MOHANDI VILLAGE, DURG, CHHATTISGARH

SUBMITTED FOR PARTIAL FULFILLMENT OF REQUIREMENT FOR THE DEGREE OF BACHELOR OF SCIENCE INFORESTRY

UNDER THE SUPERVISION OF:

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Or Dr. Anupama Mahato

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GGV, BILASPUR, CG

SUBMITTED BY:

MR.SHIVAM BHARDWAJ

B.SC. FORESTRY VIIITH SEM.
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This is to certify that the Village Attachment Report entitled **"SOCIO-ECONOMIC SURVEY OF MOHANDI VILLAGE, DURG, CHHATTISGARH"** submitted for the partial fulfilment of a **Bachelor of Science in Forestry degree to the Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh** was completed under my guidance and supervision by **Mr. Shivam Bhardwaj**

I wish to him & best of luck in him academic pursuits in the future.

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Or Dr. Anupama Mahato
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DECLARATION

I thus certify that no part or interpretation of the present Village Attachment Report entitled **"SOCIO-ECONOMIC SURVEY OF MOHANDI VILLAGE, DURG, CHHATTISGARH"** has been submitted for any university degree or dipoma. The source of the information as well as the assistance provided during the investigation have been recognised. To the best of my knowledge, the records and data in the report are accurate.

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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

A socioeconomic survey is a comparison of a society's social and economic patterns. Financial and social issues are linked by socio-economic difficulties. These surveys are aimed to gather data on available local resources, resource usage and management systems, and resource relative value for households and villages. In addition, socioeconomic surveys and analyses aid in determining the area's problems as well as measures and plans for resolving them. Income, education level, occupation, social position, perception, a nd a variety of other characteristics all contribute to socioeconomic status.

1.2 DEFINITION:-

Social economics is a branch of economics that studies the relationship between social behaviour and economics. It looks at how social norms, ethics, and other social philosophies that influence consumer behaviour shape an economy, as well as how history, politics, and other social sciences can be used to investigate potential outcomes from changes in society or the economy. Socioeconomics is a broad term that refers to the "application of economics to the study of society." It investigates the relationship between economics and social values in general.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation aids in obtaining information about:

1. A territory's social, political, and economic elements.

2. Village traditions and customs.

3. In terms of educational attainment and literacy rates.

4. The society's demographic profile.

5. Provides information about medical and health issues.

1.4 SOCIO-ECONOMIC ASSESSMENT:-

A vast variety of interrelated and diversified characteristics and variables relating to or involving a combination of social and economic factors are referred to as the socioeconomic environment. Economic, demographic, public services, fiscal, and social factors and variables could all be grouped into one of numerous categories. Community life, as well as social and cultural attitudes and values, are examples of social features.

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This is to certify that the Forest Attachment Report entitled **"Egyptian vulture conservation under Forest department ,DURG, CHHATTISGARH "** submitted for the partial fulfilment of a **Bachelor of Science in Forestry degree to the Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh** was completed under my guidance and supervision by **Mr. Shivam Bhardwaj**

I wish to him & best of luck in him academic pursuits in the future.

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I thus certify that no part or interpretation of the present Forest Attachment Report entitled " **Egyptian vulture conservation under Forest department ,DURG, CHHATTISGARH** " " has been submitted for any university degree or dipoma. The source of the information as well as the assistance provided during the investigation have been recognised. To the best of my knowledge, the records and data in the report are accurate.

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Date:-

CERTIFICATE

This is to certify that the Forest Attachment Report entitled **"SAWMILL & WOOD PRODUCT MARKETING , SURDUNG , JAMUL ,DURG, CHHATTISGARH "** submitted for the partial fulfilment of a **Bachelor of Science in Forestry degree to the Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh** was completed under my guidance and supervision by **Mr. Shivam Bhardwaj** I wish to him & best of luck in him academic pursuits in the future.

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Or Dr. Anupama Mahato
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DECLARATION

I thus certify that no part or interpretation of the present Forest Attachment Report entitled "**"SAWMILL & WOOD PRODUCT MARKETING , SURDUNG , JAMUL ,DURG, CHHATTISGARH & DONGANALA MEDICINAL NURSERY"** has been submitted for any university degree or dipoma. The source of the information as well as the assistance provided during the investigation have been recognised. To the best of my knowledge, the records and data in the report are accurate.

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INDUSTRY VISIT 1 :-

Introduction of wood timber industry :-

It is a subset of the extractive industry, which is a part of primary industry. The wood business, sometimes known as the lumber industry, is a private economic sector that deals with forestry, logging, timber commerce, and the manufacture of forest products. The timber business also serves as a market for forest management and restoration by-products.

The United States, India, and China are the world's top three timber producers. According to the International Tropical Timber Organization (ITTO), India's log business produced about 50 million metre cubes of logs in 2015. Wooden handicrafts, pulp and paper, plywood and veneer, and wooden furniture are among India's growing businesses for semi-processed and value-added timber goods.

It's no wonder that the timber business is such a significant job creator and employer, given that lumber travels through multiple stages from the forest to the mill, and then to the marketplace. The procedure begins with loggers harvesting trees with a chainsaw, a method known as felling.

A logger makes four cuts to fell a tree: top, bottom, back, and felling. Once a tree has fallen to the ground, loggers remove its limbs and use a technique known as bucking to cut it into logs. Bucking entails making cross-sectional cuts from the bottom to the top of the tree.

Then there's skidding, which involves moving logs from the forest to the landing zone. Loggers skid wood by winching multiple logs to a tractor and dragging them through the forest on marked tracks. Loggers grade and sort logs by species at the landing area, then load them into trucks that convey the timber to a variety of locations.

Lower-grade logs are delivered to pulp mills, while higher-grade logs are delivered to veneer makers. The remainder of the timber is sent to sawmills or concentration yards. The logs are subsequently sold and marketed to sawmills based on the mill's requirements.

A single log can be milled into a variety of boards, planks, or beams. The head rig, a mill's principal saw, first breaks down the log into rough-cut pieces. Following that, each piece of lumber is run through an edger to remove any irregular edges or blemishes. The timber is then run through a trimmer, which squares off the ends and cuts the lengths to conventional lumber lengths. The wood is then kiln-dried, and dried in kilns.

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VILLAGE ATTACHMENT REPORT

SUBMITTED FOR PARTIAL FULFILLMENT OF
THE DEGREE OF
BACHELOR OF SCIENCE
IN
FORESTRY

(Session: 2021-2022)

REPORT ON SOCIO-ECONOMIC SURVEY OF LAKHRAM VILLAGE, BILASPUR, CHHATTISGARH

Submitted To-
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Assistant Professor
Department Of Forestry, Wildlife
and Environmental Science

Submitted By-
Srijan Vaishnav
Roll No.- 18007049
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I have great pleasure in certifying that ***Mr. Srijan Vaishnav s/o Mr. Bharat Viashnav*** *is a regular student of B.Sc Forestry 8th Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur. He has completed village attachment training entitled* ***"REPORT ON SOCIO-ECONOMIC SURVEY OF LAKHRAM VILLAGE, BILASPUR, CHHATTISGARH"*** *during this semester under my guidance.*

I wish him all the success in his academics.

Dr. Atul Kumar Bharadwaj
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DECLARATION

I hereby declare that the present Village Attachment Report entitled: ***"REPORT ON SOCIO-ECONOMIC SURVEY OF LAKHRAM VILLAGE, BILASPUR, CHHATTISGARH"*** *interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.*

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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behavior and economics ,and it examines how social norms, ethics and other social philosophies that influence consumer behavior shape an economy, and uses history ,politics and other social sciences to examine potential results from changes to society or the economy .Socioeconomics refers broadly to the "use of economics in the study of society."In general, it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

1.4 SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors. These aspects and variables could in general be categorized into several categories including, economic, demographic, public services, fiscal and social. The social aspects may, for instance, involve community life as well as social and cultural attitude and values. Community services may meanwhile be concerned with housing and requirements for public services such as water, sanitation, communications, police and fire protection facilities, solid waste disposal as well as health and educational services. Demographic aspects may include population growth structures, distribution and density. Similarly, economic factors may include general characteristics, structures and changes various economic activities and employment.

A socioeconomic assessment is a way to learn about the social, cultural, economic and political conditions of any village including individuals, groups, communities or the entire area. The socioeconomic study is intended to:

- Assess the prevailing socioeconomic conditions in the study site. This includes provision of a baseline study and characterizing the existing state of the study site. This will assist in identifying the main areas of concern.

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TRAINING REPORT
ON
FIELD TRAINING
(ATTACHMENT WITH
STATE FOREST DEPARTMENT)
(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILLMENT FOR THE REQUIREMENT OF BACHELOR DEGREE IN FORESTRY

Submitted To-
Dr. Atul Kumar Bharadwaj
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Department Of Forestry, Wildlife
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Submitted By-
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B.Sc Forestry 8th sem
Roll No.- 18007049
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I wish him all the success in his academics.

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I hereby declare that the project work entitled ***"Training report on Field Training (Attachment with State Forest Department)"*** *submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of* ***Dr. Atul Kumar Bharadwaj*** *and this project work has been performed for the award of Bachelor's degree in Forestry.*

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CHAPTER-1

INTRODUCTION

1. CHHATTISGARH FOREST DEPARTMENT

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. The whole Chhattisgarh forest is divided into 6 different working circle and circles are divided into coupes and compartments. All 6 working circle have their different management plans as per their requirement. In Chhattisgarh there are 34 forest division and for every division 10 years working plan is made.

ADMINISTRATIVE SETUP OF FOREST DEPARTMENT

Forest Minister
↓
Principal Secretary (Forest)
↓
Principal Chief Conservator of Forests
↓

1. Addl. PCCF (Administration)
2. Addl. PCCF (CAMPA)
3. Addl. PCCF (Working Plan)
4. Addl. PCCF (JFM & Policy Analysis)
5. Addl. PCCF (Development Plan)

1. Chief Conservator of Forests (Adm./Non-Gaz.)
2. Chief Conservator of Forests (Land Management)
3. Chief Conservator of Forests (Bamboo Mission)
4. Chief Conservator of Forests (Finance/Budget)
5. Chief Conservator of Forests (Project Formulation)
6. Chief Conservator of Forests (HRD/IT)
7. Chief Conservator of Forests (Monitoring/Evaluation)
8. Chief Conservator of Forests (Production)
9. Chief Conservator of Forests (Research & Extension)
10. Chief Conservator of Forests (Vigilance)
11. Chief Conservator of Forests (Protection)
12. Director (SFRIT)

Bilaspur WP Circle
↓
6 Working Plan Division | FMIS Division

Forester's Training - 1 School
Forest's Guard Training - 2 Schools

6 Territorial Forest Circle
↓
32 Territorial Division
↓
74 Sub Division
↓
280 Ranges
↓
876 Range Asstt. Circles
↓
3810 Beats

1. CF (Development/Planning)
2. CF (Adm./Co-ordination)
3. CF (Production)
4. CF (Protection)
5. CF (JFM/ Policy Analysis)
6. CF (Vigilance)
7. CF (LM/ FCA)

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(INDUSTRIAL TRAINING)
(Session: 2021-22)

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WORKING OF SAW MILL INDUSTRY

(Jai Hanuman Woodworks)

The process starts from bucking. Bucking is the process of cutting the felled trees into logs. After bucking is completed, the logs are hauled to a particular place and from there they are transported to a sawmill to turn the logs to lumber.

A sawmill, machine or plant with power driven machines for sawing logs into rough-squared sections or into planks and boards. A sawmill may be equipped with planning, moulding, tenoning and other machines for finishing process.

The logs are brought in from the forest and gathered in the compound. Many industries make wood based product to meet the demands of the market and the people.

The big sized logs are cut into small ones with the help of different types of machines such as-

- Table saw
- Circular saw
- Panel saw
- Milter saw
- Reciprocating saw
- Jigsaw

Once the sawing and reshaping of the logs are done, the workers convert the logs into products like beds, chairs, doors, windows, tables etc.
These products are then loaded into the lorry or tempo and then transported to the shops and market for selling. The sawmills also transports the raw logs after cutting them into desired sizes to the industries that make products out of forest produce (wood). All these woods are transported to the industries in legal manner.



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SOCIO-ECONOMIC SURVEY OF JAROUNDHA VILLAGE, BILASPUR, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for partial fullfilment of requirement

for the Degree of (Bachelor of Science In Forestry)

(Session: 2021-22)

Under the Supervision of:

Dr.Atul Kumar Bharadwaj
Assistant Professor
Dr.Anupma Mahato
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Submitted By:

Mr. Tushar Jangde
B.Sc. Forestry VIIIth sem
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(MENTOR AND GUIDENCE UNDER OF)

Dr. ATUL KUMAR BHARDWAJ
Assistant professor GGV Bilaspur

Dr. Anupma Mahato
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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society.Socio-economic links the financial and social issues together.These surveys are designed to collect information regarding available local resources,resource use and management system and relative importance of resources for households and villages.Also,Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it.Socioeconomic status is based on income,education level,occupation,social status,perception and various other factors.

1.2 DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behavior and economics,and it examines how social norms,ethics and other social philosophies that influence consumer behavior shape an economy,and uses history,politics and other social sciences to examine potential results from changes to society or the economy.Socioeconomics refers broadly to the"use of economics in the study of society."In general,it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social,political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

1.4 SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors.These aspects and variables could,in general,be categorized into several categories including,economic,demographic,public services,fiscal and social.The social aspects may,for instance,involve community life as well as social and cultural attitude and values.Community services may meanwhile be concerned with housing and requirements for public services such as water,sanitation,communications,police and fire protection facilities,solid waste disposal as well as health and educational services.Demographic

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REPORT ON INDUSTRIAL TRAINING

(Session : 2021-22)

Submitted for partial fullfilment of requirement

for the Degree of (Bachelor of Science In Forestry)

(Session: 2021-22)

Under the Supervision of:

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1. WOOD INDUSTRY

INTRODUCTION

The **wood industry** or **lumber industry** is the industry concerned with forestry, logging, timber trade, and the production of primary forest products and wood products (e.g. furniture) and secondary products like wood pulp for the pulp and paper industry. Some of the largest producers are also among the biggest owners of timberland. The wood industry has historically been and continues to be an important sector in many economies.

History of use of wood

The wood economy was the starting point of the civilizations worldwide, since eras preceding the Paleolithic and the Neolithic. It necessarily preceded ages of metals by many millennia, as the melting of metals was possible only through the discovery of techniques to light fire (usually obtained by the scraping of two very dry wooden rods) and the building of many simple machines and rudimentary tools, as canes, club handles, bows, arrows, lances. One of the most ancient handmade articles ever found is a polished wooden spear tip (Clacton Spear) 250,000 years old (third interglacial period), that was buried under sediments in England, at Clacton-on-Sea.

OBJECTIVE

- To provide an effective framework for consultation, international cooperation and policy development among all members with regard to all relevant aspects of the world timber economy;
- To provide a forum for consultation to promote non-discriminatory timber trade practices;
- To contribute to the process of sustainable development;
- To enhance the capacity of members to implement a strategy for achieving exports of tropical timber and timber products from sustainably managed sources by the Year 2000;
- To promote the expansion and diversification of international trade in tropical timber from sustainable sources by improving the structural conditions in international markets, by taking into account, on the one hand, a long-term increase in consumption and continuity of supplies, and, on the other, prices which reflect the costs of sustainable forest management and which are remunerative and equitable for members, and the improvement of market access;

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TRAINING REPORT ON FOREST ATTACHMENT

(Session : 2021-22)

Submitted for partial fullfilment of requirement for the Degree of (Bachelor of Science In Forestry)

(Session: 2021-22)

Under the Supervision of:

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1.NURSERY MANAGEMENT

INTRODUCTION

Nursery refers to an area from which seedlings are raised for eventual planting out.

Nursery management :- nursery management may be define as the sum of the activities Performed for the successful production ,care and marketing of different planting material.

DETAILS ABOUT VISITED NURSERY:-

Fadhakhar nursery which is 9 k.m.away from Nehru chowk Bilaspur
Total area of fadhakhar nursery is 2 hectare.

Total 3 staff work in this nursery and also 10 workers are work under manrega yojna.

IMPORTANCE OF NURSERY:-

Establishment of nurseries is important for the following reason:

- Production of proposed size and age of seedling.
- Production of the desired number of seedling.
- Production of healthy plants of superior quality.
- Production of desired plants at the right time.
- Production of seedlings attach per cost.

PREPARATION OF NURSERY Selection of site :

1.The nursery area should be nearer ot the water source.

2.Generally, the location should be partially shaded i.e. under the trees . If not, Artificial shade is to be provided.

3.It should be well protected from animals.

4. Proper drainage facilities should be provided.
Selection of soil A medium textured ,loam (or) sandy loam soil is preferred.soil should be rich in organi matter. Soil depth should be preferably by 15-25cm.

Preparation of nursery beds.

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ON

FIELD TRAINING

(ATTACHMENT WITH STATE FOREST DEPARTMENT)

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILLMENT OF THE DEGREE OF BACHELOR DEGREE IN FORESTRY

Submitted to:

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Submitted By:

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This is to certify that the forest attachment report entitled: **"Training report on Field Training (Attachment with state forest Department) Bilaspur , Chhattisgarh"** has been submitted for the partial fulfillment of Degree of **Bachelor of Science in Forestry** to the Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, student carried out by **Vaishnavi Awasaria B.Sc. Forestry, VIIIth Semester, and (Roll No. 18007052)** under my supervision. Her work was appreciable and satisfactory.

I wish her all the success in her future academic endeavors.

(Supervise)

Dr. Atul Kumar Bharadwaj

(Co-supervise)

Dr. Anupama Mahato

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DECLARATION

I hereby declare that the project work entitled ***"Training report on Field Training (Attachment with State Forest Department)"*** submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of ***Dr.Atul Kumar Bharadwaj*** and this project work has been performed for the award of Bachelor's degree in Forestry.

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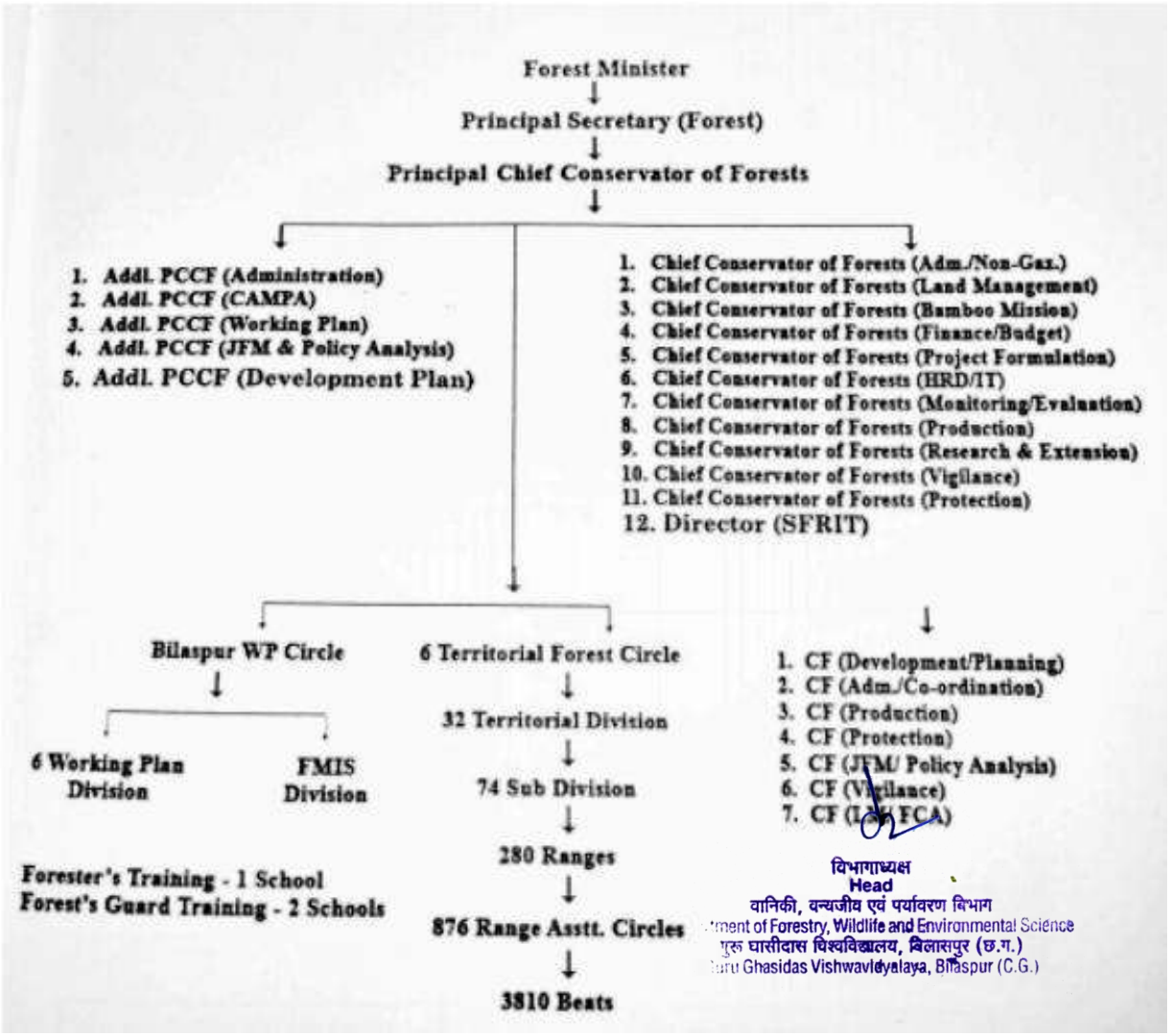
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INTRODUCTION

1.CHHATTISGARH FOREST DEPARTMENT

The forest department in any state works to conserve, protect and manage the forest in sustainable manner. The whole Chhattisgarh forest is divided into 6 different working circle and circles are divided into coupes and compartments.

All 6 working circle have their different management plans as per their requirement. In Chhattisgarh there are 34 forest division and for every division 10 years working plan is made.



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VILLAGE ATTACHMENT REPORT

SUBMITTED FOR PARTIAL FULFILLMENT OF

THE DEGREE OF

BACHELOR OF SCIENCE

IN

FORESTRY

(Session: 2021-2022)

SOCIO-ECONOMIC SURVEY OF HIRRI VILLAGE, DURG, CHHATTISGARH

Supervised By:

Dr. Atul Kumar Bharadwaj
Assistant Professor

Dr. Anupama Mahato
Department of Forestry, Wildlife
& Environmental Science
GGV, Bilaspur, CG

Submitted By:

Ms. Vaishnavi Awasaria
B.Sc Forestry VIIIth Sem
Enrollment no-GGV/18/6167
Roll no-18007052

DEPARTMENT OF FORESTRY, WILDLIFE
& ENVIRONMENTAL SCIENCE

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I wish her all the success in her future academic endeavors.

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Dr. Atul Kumar Bharadwaj

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I hereby declare that the present Village Attachment Report entitled: ***"SOCIO-ECONOMIC SURVEY OF HIRRI VILLAGE, DURG, CHHATTISGARH"*** interpretation or part has not been submitted for any degree or diploma of any University. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behavior and economics ,and it examines how social norms, ethics and other social philosophies that influence consumer behavior shape an economy, and uses history ,politics and other social sciences to examine potential results from changes to society or the economy .Socioeconomics refers broadly to the "use of economics in the study of society."In general, it studies the relation of economics to social values.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

1.4 SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors. These aspects and variables could in general be categorized into several categories including, economic, demographic, public services, fiscal and social .The social aspects may, for instance, involve community life as well as social and cultural attitude and values. Community services may meanwhile be concerned with housing and requirements for public services such as water, sanita

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REPORT

ON

INDUSTRIAL TRAINING

(Session: 2021-2022)

SUBMITTED FOR PARTIAL FULFILLMENT OF THE DEGREE OF BACHELOR DEGREE IN FORESTRY

Submitted to:

Dr. Atul kumar Bharadwaj

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Submitted By:

Vaishnavi Awasaria

B.sc forestry VIIIth sem

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I wish her all the success in her future academic endeavors.

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DECLARATION

I hereby declare that the project work entitled ***"REPORT ON INDUSTRIAL TRAINING"*** submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of ***Dr.Atul Kumar Bharadwaj*** and this project work has been performed for the award of Bachelor's degree in Forestry.

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1. WOOD INDUSTRY

INTRODUCTION

The **wood industry** or **lumber industry** is the industry concerned with forestry, logging, timber trade, and the production of primary forest products and wood products (e.g. furniture) and secondary products like wood pulp for the pulp and paper industry. Some of the largest producers are also among the biggest owners of timberland. The wood industry has historically been and continues to be an important sector in many economies.

History of use of wood

The wood economy was the starting point of the civilizations worldwide, since eras preceding the Paleolithic and the Neolithic. It necessarily preceded ages of metals by many millennia, as the melting of metals was possible only through the discovery of techniques to light fire (usually obtained by the scraping of two very dry wooden rods) and the building of many simple machines and rudimentary tools, as canes, club handles, bows, arrows, lances. One of the most ancient handmade articles ever found is a polished wooden spear tip (Clacton Spear) 250,000 years old (third interglacial period), that was buried under sediments in England, at Clacton-on-Sea.

OBJECTIVE

To provide an effective framework for consultation, international cooperation and policy development among all members with regard to all relevant aspects of the world timber economy;

To provide a forum for consultation to promote non-discriminatory timber trade practices;

To contribute to the process of sustainable development;

To enhance the capacity of members to implement a strategy for achieving exports of tropical timber and timber products from sustainably managed sources by the Year 2000;

To promote the expansion and diversification of international trade in timber from sustainable sources by improving the structural conditions in international timber markets, in particular on the one

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FOREST ATTACHMENT REPORT

ON

FORESTRY OPERATIONS (WORKING EXPIRIENCE)

(Session: 2021-22)

Submitted For Partial Fulfilment of the Requirement for
Bachelor of Science in Forestry

Supervised by:
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I wish him all the success in his future academic endeavours.

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DECLARATION

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CHAPTER 1
ORGANIZATIONAL SETUP OF FOREST DEPARTMENT AND INTRODUCTION TO CHHATTISGARH FOREST

In forestry there are two aspects of organization i.e

ADMINISTRATIVE ORGANISATION

At the national level, the administrative structure includes

- Director General of Forests & Special Secretary (DGF & SS) to the Government of India,
- Additional Director General of Forests
- Inspector General of Forests
- Deputy Inspector General of Forests
- Assistant Inspector General of Forests in the MoEF, New Delhi;

supported by the Regional Offices and headed by Additional Principal Chief Conservator of Forests (APCCF)/Chief Conservator of Forests.There should be adequate number of Chief Conservator/Conservator/Deputy Conservator Forests for every state in the regional offices so that there is efficient m onitoring of the whole process of working plan preparation.

In the states, there is no uniformity in the constitution of the working plan wing. A working plan (WPU) at the field level should be headed by a working plan officer (WPO) of the rank Conservator of Forests. For smaller states, deviation may be approved by the DGF & SS, MoEF.

There are various levels of supervision and direction, of which, Principal Chief Conservator ofForests (PCCF), Additional Principal Chief Conservator of Forests (APC CF) and Chief Conservator of Forests (CCF) are the key functionaries.

Overall situation is as under:

Head (Policy level) – PCCF/APCCF (Working Plan)

Field Supervisory unit – APCCF/ CCF (Working Plan)

Field Functional unit – WPO

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VILLAGE ATTACHMENT REPORT
ON
SOCIOECONOMIC SURVEY OF KANWARIHA VILLAGE

(Session: 2021-22)

Submitted for Partial Fulfillment of the Requirement for Bachelor of Science in Forestry

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गुरु घासीदास विश्वविद्यालय
(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)
कोनी, बिलासपुर – 495009 (छ.ग.)

Guru Ghasidas Vishwavidyalaya
(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)
Koni, Bilaspur – 495009 (C.G.)

DECLARATION

I hereby declare that the present Village Attachment Report entitled: **"SOCIO-ECONOMIC URVEY OF KANWARIHA VILLAGE, BILASPUR, CHHATTISGARH"** interpretation or part has t been submitted for any degree or diploma of any University. The source of material and all assistance eived during the investigation have been duly acknowledged. All the records and data given in the report correct to my knowledge.

Vivek Kumar Patel
B.Sc. Forestry
VIIIth Semester
Roll. No.: 18007053
Enrolment No.: GGV/18/6169

विभागाध्यक्ष
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CHAPTER-1

INTRODUCTION

A. SOCIOECONOMIC SURVEY

A socio-economic survey is regarded as one of the most important sources of statistical data on household expenditure and income as well as other data on the status of housing, individual and household characteristics, and living conditions. This survey deals with the populations of the area, age group, size, type of family, language, and way of living. The economic survey is conducted to take care of the economic condition and the status of the community such as the source of income.

B. IMPORTANCE OF SOCIOECONOMIC SURVEY

For planning purposes, any existing socio-economic survey is of utmost importance because it is the only direct way to contact the residents and get the real existing data.

C. OBJECTIVES OF SOCIOECONOMIC SURVEY

This kind of survey is carried out for the following objectives-

- To note down the existing socio-economic condition.
- To know the opinion, demands, and, problems of people.
- To record the people's level of satisfaction and perception of improvement about a plan or program which is to be implemented.
- To note the people's reaction and acceptability of some already worked out proposals/plans

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A REPORT ON INDUSTRIAL TRAINING

(Session: 2021-22)

Submitted For Partial Fulfillment of the Requirement for Bachelor of Science in Forestry

Supervised by:
Dr.Atul kumar Bhardwaj
Assistant Professor
Co supervised by
Anupama Mahato
Assistant Professor
Department of Forestry,
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GGV, Bilaspur (C.G.)

Submitted By:
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B.Sc. Forestry
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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

GURU GHASIDAS VISHWAVIDYALAYA
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CERTIFICATE

I have great pleasure in certifying that **Vivek Kumar Patel** is a regular student of B.Sc. Forestry VIII Semester during the session of 2021-22 of Department of Forestry, Wildlife and Environmental Sciences, GGU, Bilaspur. He has completed his **"Training report on Industrial Training"** during this semester under my guidance.

I wish him all the success in her academics.

Dr. Atul Kumar Bhardwaj
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DECLARATION

I hereby declare that the project work entitled **"Training report on Industrial Training"** submitted to Department of Forestry, Wildlife and Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of **Dr. Atul Kumar Bharadwaj** and this project work has been performed for the awardof Bachelors' degree in Forestry.

Patel

Vivek Kumar Patel
B.Sc. Forestry VIIIth Semester
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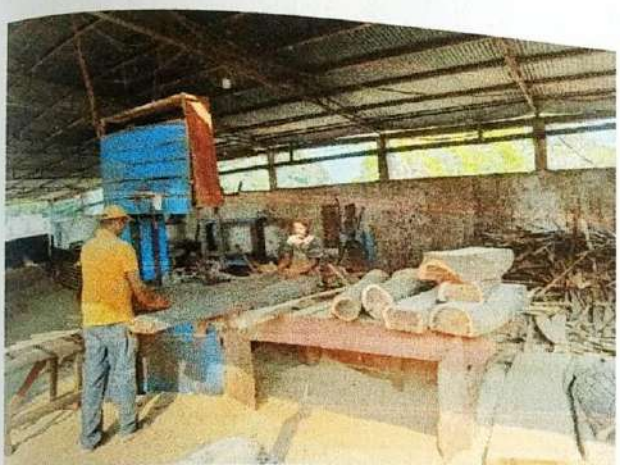
CHAPTER-1
SAW MILL AND TIMBER SHOP VISIT

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INTRODUCTION

We had a visit at saw mill and retail shops of wood products under our industrial training attachment. The two saw mills were Jai Hanuman Woodworks, Mungeli Road, Bilaspur and Aara Mill at Shanichari Bazar, Bilaspur where we gained knowledge on different species of wood their uses and identification, types of machineries used, steps from auction of timber at wood depots to it processing and final products.

Sawmill or lumber mill is a facility where logs are cut into lumber. Modern sawmills use a motorized saw to cut logs lengthwise to make long pieces, and crosswise to length depending on standard or custom sizes.





THE INDUSTRIAL TRANING IN, BILASPUR, (C.G.)

DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

(INDUSTRIAL TRANING REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

Dr. Garima Tiwari
Assistant Professor
Department of Forestry, Wildlife
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Submitted By:

Mr. Yashaswi Gupta
B.Sc. Forestry 8th Sem.
EnrlNo. : GGV/17/6097
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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR-495009 (CG)

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CERTIFICATE

This is to certify that the Industrial training Report.

Submitted for the partial fulfillment of Degree of ***Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr. Yashaswi Gupta of B.Sc. Forestry, VIIIth Semester, and Enrollment No. (GGV/17/6097) under the guidance and supervision***

Date - 4/5/2021

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(Dr. Garima Tiwari)
Supervisor
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Assistant Professor
Dept. of Forestry
Guru Ghasidas Vishvavidhyalaya
Bilaspur (Chhatt'sgarh)

DECLARATION

I have to declare the training report **entitled "FOREST BASED INDUSTRY, PLANTATION PRODUCTION UNIT, BILASPUR, CHHATTISGARH"**. submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me under the guidance of **Dr. Garima Tiwari** (Assistant Professor).

The document had not been submitted for any diploma and degree for any University. Knowledge of this survey and all the important data and assistance received during the course for Investigation has been duly acknowledged. The following data has been make the information correctly.

ALL THE RECORDS AND DATA GIVEN IN THE REPORT ARE CORRECT TO MY KNOWLEDGE.

Yashaswi

Date: 4/5/2022

Place – Bilaspur

Name - Yashaswi Gupta

Class - B.Sc. Forestry

Semester – 8th sem

Roll No. - 17007269

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Chapter :-1

Role of agroforestry in wood based industry.

Introduction

Natural and managed forests are one of the most important components of the Earth's living and climatic systems. Around the world, forestry and the forest-products industry are of major economic importance to rural livelihoods. Forestry is the means by which trees can be produced as a renewable resource for wood or biomass for direct timber sales, production of trees for ornamental plantings or woody material for composite products or for use as a combustion energy source. Integrated into forest management plans may be other resource-management and asset-generation or asset-recovery options. These may involve revenue generation from hunting lease sales, government-sponsored conservation programs, tourism from winter sports access, syrup or mushroom production for food products, educational activities and other strategies.

- Non-traditional Forest Products
- Christmas Trees
- Nursery Trees

Marketing:-

Forest-product companies are value-addition engines. Trees produce a myriad of products from foods to building materials to consumer goods. Sound marketing has always been the backbone of successful forest-products companies. The products of the very different wood-based industries require very different marketing strategies, but the universal key is to identify any and all competitive advantages within the particular industry, and this includes the product's fit with respect to imported competitors, and whether or not it has potential as an export product. Understanding your competitive positions as well as those of your competitors are critical to analyzing the value chain to identify potential competitive advantage. "The 4 P's of Marketing": Products, Pricing, Promotion, and Place (Distribution) are great starting points, but manufacturing practices and current resource-use issues affecting the industry also may be useful as marketing points. Economic trends, market history, factors affecting change in the industry and sound marketing research are important components of any business plan.

The FAO of the United Nations has written that the forest products industry is a vigorous participant in global trade since most business models are built on capturing comparative advantages at the right cost. Many emerging countries possess valued forests, aspire for more processing industry and employment, and seek added value to their raw materials. International investors in the forest products industry are their willing allies, but legal sustainable production and proper labor practices are key concerns.

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Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

SOCIO-ECONOMIC SURVEY OF PENDRIDIH VILLAGE, BILASPUR, CHHATTISGARH

Submitted for partial fulfilment of requirement for the Degree of

Bachelor of Science

In

Forestry

(VILLAGE ATTACHMENT REPORT)

(Session: 2021-22)

DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

Under the Supervision of:

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DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR-495009 (CG)

(A Central University Established Under Central University Act 2009, No.25 of 2009)

Date: 4/5/2022

CERTIFICATE

This is to certify that the Village Attachment Report.

"SOCIO-ECONOMIC SURVEY OF PENDRIDIH VILLAGE, BILASPUR, CHHATTISGARH"

Submitted for the partial fulfillment of Degree of ***Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr. Yashaswi Gupta of B.Sc. Forestry, VIIIth Semester, and Enrollment No. (GGV/17/6097) under the guidance and supervision.***

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(Dr. Garima Tiwari)
DR. GARIMA TIWARI
Assistant Professor
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Guru Ghasidas Vishwavidyalaya
Bilaspur (Chhattisgarh)
Supervisor

DECLARATION

I have to attend the ***SOCIO-ECONOMIC SURVEY OF PENDRIDIH VILLAGE, BILASPUR, CHHATTISGARH***.

The document had not been submitted for any diploma and degree for any University. Knowledge of this survey and all the important data and assistance received during the course for Investigation has been duly acknowledged. The following data has been make the information correctly.

ALL THE RECORDS AND DATA GIVEN IN THE REPORT ARE CORRECT TO MY KNOWLEDGE.

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Yashaswi Gupta
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क्रमांक:For/ 1393/

दिनांक: 17/01/2022

प्रति,
सरपंच
शिव कुमार धुर्वे
ग्रा० पेण्ड्रीडीह

विषय: बी.एस.सी. वानिकी अष्टम सेमेस्टर के विद्यार्थियों को गांव में सामाजिक-आर्थिक सर्वेक्षण हेतु अनुमति प्रदान करने बाबत।

महोदय,

निवेदन है कि वानिकी, वन्यजीव एवं पर्यावरण विभाग में अध्ययनरत बी.एस.सी. वानिकी अंतिम वर्ष (अष्टम सेमेस्टर) विद्यार्थियों को पाठ्यक्रमानुसार फील्ड ट्रेनिंग कराया जाता है। जिसके अंतर्गत गांव में जाकर विद्यार्थियों द्वारा सामाजिक-आर्थिक सर्वेक्षण किया जाता है। इस अनुक्रम में विभाग द्वारा आपके ग्राम को सामाजिक आर्थिक सर्वेक्षण के लिए चुना गया है।

अतः आपसे निवेदन है कि विद्यार्थियों को सामाजिक-आर्थिक सर्वेक्षण के लिए अनुमति प्रदान करें एवं उनको उचित सहयोग एवं मार्गदर्शन प्रदान करें।

धन्यवाद।

18/1/2022
सरपंच
ग्राम पंचायत पेण्ड्रीडीह
ज.कं.बिल्हा, जि.बिलासपुर (छ.ग.)

17/1/2022
विभागाध्यक्ष

Fig.-1.1

CHAPTER – 1

INTRODUCTION :-

Socio-economic survey tools are **designed to collect information** as a means of improving understanding of local resource management systems, resource use and the relative importance of resources for households and villages.

A socio-economic survey is regarded as one of the most important sources of statistical data on household expenditure and income as well as other data on the status of housing, individual and household characteristics and living conditions.

DEFINITION :-

Socioeconomic status is the social standing or class of an individual or group. It is often measured as a combination of education, income and occupation. Examinations of socioeconomic status often reveal inequities in access to resources, plus issues related to privilege, power and control.

IMPORTANCE :-

Socio-economic impact studies **measure and monetize the economic, social, environmental and financial costs and benefits**, for all stakeholders, of a project or public policy over its lifetime.

Socio-economic observation helps to get the details about:-

1. Social political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical condition.

AIM OF THE SURVEY:-

The main aim of the survey is to know and understand about the socio-economic conditions of the village PENDRIDIH. To identify and enlist the strengths and weakness of the village and then to find a way to boost the strengths and overcome the weakness.

METHODOLOGY ADOPTED FOR SURVEY:-

For a socioeconomic study to be organized and conducted properly, it should be systematic, and have minimum bias, and allow for consistent comparison and reasoned judgment. For all this to be accomplished, carefully planned, very precise and logical work methodologies are usually developed.

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THE FOREST ATTACHMENT TRANING IN, BILASPUR, (C.G.)

DEPARTMENT OF FORESTRY, WILDLIFE & ENVIRONMENTAL SCIENCES

(FOREST ATTACHMENT REPORT)

Submitted for partial fulfilment of requirement

for the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Under the Supervision of:

Dr. Garima Tiwari
Assistant Professor
Department of Forestry, Wildlife & Environmental Sciences
GGV, Bilaspur , CG

Submitted By:

Mr. Yashaswi Gupta
B.Sc. Forestry 8th Sem.
EnrlNo. : GGV/17/6097
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CERTIFICATE

This is to certify that the Forest Attachment Report.

Submitted for the partial fulfillment of Degree of ***Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr. Yashaswi Gupta of B.Sc. Forestry, VIIIth Semester, and Enrollment No. (GGV/17/6097) under the guidance and supervision***

Date - 4/5/2022

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(Dr. Garima Tiwari)
Supervisor
DR. GARIMA TIWARI
Assistant Professor
Dept. of Forestry
Guru Ghasidas Vishvavidhyalaya
Bilaspur (Chhattisgarh)

DECLARATION

I have to declare the training report **entitled "FOREST BASED INDUSTRY, PLANTATION PRODUCTION UNIT, BILASPUR, CHHATTISGARH"**. submitted to Guru Ghasidas Vishwavidyalaya is a record of an original work done by me under the guidance of **Dr. Garima Tiwari** (Assistant Professor).

The document had not been submitted for any diploma and degree for any University. Knowledge of this survey and all the important data and assistance received during the course for Investigation has been duly acknowledged. The following data has been make the information correctly.

ALL THE RECORDS AND DATA GIVEN IN THE REPORT ARE CORRECT TO MY KNOWLEDGE.

Yashaswi

Date: 4/5/2022

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Nursery

Nursery is defined as an area where plants are raised for eventual planting out. It comprises of nursery beds, paths irrigated channels etc. Nursery bed is defined as a prepared area in a nursery where seed is sown or into which seedlings or cuttings are raised. On the bases of kind of plants growing in them nursery beds are classified into seedling beds and transplant beds, seedlings, beds are those nursery beds in which seedlings are raised either for, transplanting in other beds or for planting out. A nursery which has only seedling bed.

INTRODUCTION –

The need for forest nurseries emphasizes an important difference between agriculture and forestry. The farmer sowing the seeds where his crop is to grow. The forester in most cases slows seeds and raises seedlings in a nursery and then plants them on land to be afforested.

Objectives of Nursery:-

It occupies an important place in artificial regeneration. The following objects for which nursery is generally made, clearly bring out its importance.

1. Planting of nursery grown plants is the surest method of artificial regeneration on poor and barren sites.
2. Success of road side avenue plantations depends largely on planting tall and sturdy plants which can be only obtained from nursery.
3. Some important species do not seed ever year. Plantations of these species can be raised annually, only by sowing all available seeds in nursery to raise seedlings to be planted out various years.
4. Some species grow very slowly and if the seeds of these species are sown directly in plantation, the seedlings are most likely to-be suppressed by weeds and ultimately killed. Therefore, slow growing spices are generally raised in nursery and planted out, only when the seedlings are not liable to be damaged by weeds.
5. Plantations of some species, when raised by direct sowing are not so successful when raised by transplanting their seedlings. In such cases, nursery is an essential part of artificial regeneration to these species.

Importance of nursery

- It is possible to grow and maintain a large number of plants per unit area.
- Small and expensive hybrid seeds can be raised more effectively due to better care and management.
- When seeds are sown in seedbeds, their germination percentage increases and the vigour of the seedlings also improves.
- The management of seedlings can be done in a better way with minimum care, cost and maintenance as the nursery area is small.
- Manipulation of growing conditions for plants becomes easy.

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SOCIO-ECONOMIC SURVEY OF MOHATARAI VILLAGE, BILASPUR, CHHATTISGARH

(VILLAGE ATTACHMENT REPORT)

Submitted for Partial Fulfilment of Requirement
For the Degree of
Bachelor of Science
In
Forestry

(Session: 2021-2022)

Under the Supervision of:

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This is to certify that the Village Attachment Report entitled: ***"Socio-economic Survey of Mohatarai village, Bilaspur, Chhattisgarh"*** submitted for the partial fulfilment of Degree of ***Bachelor of science in forestry to department of forestry, wildlife & environmental sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by Mr. Devopriyo Ganguly of B.Sc. forestry, VIIIth semester, enrolment no. (GGV/18/6074) and Roll No. (18007017) under my guidance and supervision. His work was satisfactory and appreciable.***

I wish him all the success in his future academic endeavours.

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: ***"Socio-economic Survey of Mohatarai village, Bilaspur, Chhattisgarh"*** interpretation or part has not been submitted for any degree or diploma of any university. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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CHAPTER-1

INTRODUCTION

➢ SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, status, perception and various other factors.

➢ DEFINITION:-

Social economics is a branch of economics that focuses on the relationship between social behaviour and economics, and it examines how social norms, ethics and other social philosophies that influence consumer behaviour shape an economy, and uses history, politics and other social sciences to examine potential results from changes to society or the economy. Socioeconomics refers broadly to the "use of economics in the study of society. "In general, it studies the relation of economics to social values.

➢ IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

➢ SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors. These aspects and variables could, in general, be categorized into several categories including, economic, demographic, public services, fiscal and social. The social aspects may, for instance, involve community life as well as social and cultural attitude and values. Community services may meanwhile be concerned with housing and requirements for public services such as water, sanitation, communications, police and fire protection facilities, solid waste disposal as well as health and educational services. Demographic aspects may include population growth structures, distribution and density. Similarly, economic factors may include general characteristics, structures and changes various economic activities and employment.

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A REPORT ON
INDUSTRIAL ATTACHMENT

Submitted For Partial Fulfilment of Requirement

For the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

Supervised by:
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This is to certify that the Forest Attachment Report entitled: ***"Industrial raining"*** submitted for the partial fulfilment of degree of ***Bachelor of science in restry to department of forestry, wildlife & environmental sciences, Guru hasidas Vishwavidyalaya, Bilaspur, Chhattisgarh has been carried out by r.Devopriyo Ganguly of B.Sc. forestry, VIII^{h} semester, student (roll no. 007017) under my supervision. His work was appreciable and satisfactory.***

I wish him all the success in his future academic endeavours.

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5/05/2022

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DECLARATION

I hereby declare that the project work entitled **"Training report on Industrial Training"** submitted to department of forestry, wildlife and environmental sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur is a record of an original work done by me under the guidance of **Dr. Bhavna Dixit** and this project work has been performed for the awardof bachelors' degree in forestry.

Devopriyo Ganguly

B.Sc. Forestry 8th Semester

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Chapter 1

Introduction

- **Forest based industries: The industries that use forest raw material are known as forest-based industries. The major forest-based industries are the paper and pulp industry, match wood industry, Timber and Sandalwood industry, Plywood industries, oil, and biodiesel industry, etc.**

- **For developing countries like India, forests are sustenance and survival for a large populace. Forests are renewable resource and contribute towards economic development. Forests occupied a share of 1.7 per cent to gross domestic product (Singh and Beniwal, 1995).**

- **At present a large section of population depends upon forests for their livelihood. Forests fulfil the needs of fuel, fodder, energy, housing, and timber, raw material for artisans and industries and employment. The minor forests products including fruits, flowers, seeds, grasses, dyeing and tanning agents, natural gums, resins etc. also contribute to the economy.**

- **The role of forests in ecological balance, bio-diversity conservation, food security, protection of soil and water resources, and mitigation of global warming, combating desertification and sustainable development has been widely accepted.**

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A REPORT ON

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Submitted for Partial Fulfilment of requirement

For the Degree of

Bachelor of Science

In

Forestry

(Session: 2021-22)

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I wish him all the success in his future academic endeavours.

7.05.2022

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DECLARATION

I hereby declare that the present forest attachment report entitled: "***Forest Attachment***" interpretation or part has not been submitted for any degree or diploma of any university. The source of material and all assistance received during the course of investigation have been duly acknowledged. All the records and data given in the report are correct to my knowledge.

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Chapter 1 –

FOREST ADMINISTRATION

A **Forest** is an area of land dominated by trees. Hundreds of definitions of forest are used throughout the world, incorporating factors such as tree density, tree height, land use, legal standing, and ecological function. The United Nations' Food and Agriculture Organization (FAO) defines a forest as, "Land spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 10 per cent, or trees able to reach these thresholds *in situ*. It does not include land that is predominantly under agricultural or urban use.

➢ **Advantages of forests:**

- Forests help maintain oxygen levels in the atmosphere, facilitating the breathing of humans and other animals.
- They help reduce soil loss and property damage by slowing the flow during floods
- The plantation of forests provides humans with wood and timber, which can be exported and used in a wide range of applications.
- Forests serve as a habitat for millions of animals.
- Forests provide many important natural medicines.
- Forests help to control the Earth's temperature and combat global warming.
- The natural beauty associated with forests is valuable.
- Forests are responsible for several jobs.
- Forests help regulate the climate and the ecosystem.

➢ Forest administration

The forest administration is the body responsible for implementation of forest policy and forestry issues in a particular country through rules, legislation and financial that means information and forest programs, the forest policy aims to promote the sustainable management and use of forest land resources.

National Forestry Department: At the national level, the administrative structure includes Director General of Forests & Special Secretary (DGF&SS) to the Government of India, Additional Director General of Forests, Inspector General of Forests, Deputy Inspector General of Forests, and Assistant Inspector General of Forests in the MoEF, New Delhi; and it is supported by the Regional Offices headed by Additional Principal Chief Conservator of Forests (APCCF)/Chief Conservator of Forests. There should be adequate number of Chief Conservator/Conservator/Deputy Conservator of Forests for every state in the regional offices so that there is efficient monitoring of the whole process of working plan preparation and adherence to the prescriptions of working plans in all workings/management of forests.

State Forestry Department: In the states, there is no uniformity in the constitution of the working plan wing. A working plan unit (WPU) at the field level should be headed by a working plan officer (WPO) of the rank of Conservator of Forests. For smaller states, deviation may be approved by the DGF&SS, MoEF. There are various levels of supervision and direction, of

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TRAINING REPORT
ON

INDUSTRIAL TRAINING

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

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VIII semester
Roll No.: 18007041
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I wish her all the success in her academics.

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❖ REFERENCES

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CHAPTER- 1

SAWMILL INDUSTRY

❖ Introduction

➢ What is a wood?

Wood is a porous and fibrous structural tissue found in the stems and roots of trees and other woody plants. It is an organic material, a natural composite of cellulose fibers that are strong in tension and embedded in a matrix of lignin that resists compression. Wood is sometimes defined as only the secondary xylem in the stems of trees, or it is defined more broadly to include the same type of tissue elsewhere such as in the roots of trees or shrubs.

➢ Properties of wood:

❖ Physical Properties:-

- **Size: -** The size of wood depends upon the age of the trees.
- **Colour: -** Colour is the visual sensation produced by the light on the eye. The colour of wood helps in the identification of timber and it decides the utility of wood for aesthetic uses.
- **Luster: -** Luster is the ability of the object to reflect the light. The wood showing good luster is used in furniture industries.
- **Odour: -** It refers to the fragrance emitted from the wood. The sandal has good smelling characters and hence it is widely used in cosmetic as well as wood industries. Generally, wood showing a bad odour is not preferable for domestic uses.
- **Density and weight: -** The density is the weight of a unit volume of the material. The weight of wood depends on the wood substance. Extraneous matter and moisture content. The weight of wood is the criteria for its usage in the packing case industry where lighter woods are preferable.

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VILLAGE ATTACHEMENT REPORT

(SOCIO-ECONOMIC SURVEY OF JAMUNIYA VILLAGE)

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

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This is to certify that the Village Attachment Report entitled: *"SOCIO ECONOMIC SURVEY OF JAMUNIYA VILLAGE, MADHYA PRADESH"* submitted for the partial fulfillment of Degree of Bachelor of Science in Forestry to Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh bas been carried out by RESHMA MEHRA of B.Sc. Forestry, VIIIth Semester, and Roll no. 18007041 under my guidance and supervision.

Her work was appreciable and satisfactory. I wish her success in future academic endeavors.

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DECLARATION

I hereby declare that the present Village Attachment Report entitled: *"SOCIO ECONOMIC SURVEY OF JAMUNIYA VILLAGE, MADHYA PRADESH"* interpretation or part of it has not been submitted for any degree or diploma of any University. The source of material and all assistance. received during the course of investigation have been duly acknowledged. All the records and data given in the report are authentic to my knowledge.

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Reshma Mehra
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CHAPTER-1

INTRODUCTION

1.1 SOCIO-ECONOMIC SURVEY:-

Socio-economic survey is an assessment between the social and economic habits of the society. Socio-economic links the financial and social issues together. These surveys are designed to collect information regarding available local resources, resource use and management system and relative importance of resources for households and villages. Also, Socio-economic survey and its analysis help to know about the problems of the area and steps and plans to solve it. Socioeconomic status is based on income, education level, occupation, social status, perception and various other factors.

1.2 AIM OF THE SURVEY:-

The main aim of the survey is to know and understand about the socio-economic conditions of the Village Jamuniya. To identify and enlist the strengths and weakness of the village and then to find a way to boost the strengths and overcome the weakness.

1.3 IMPORTANCE OF SOCIO-ECONOMIC SURVEY:-

Socio-economic observation helps to get the details about:-

1. Social, political and economic aspects of a territory.
2. Cultures and customs of the village.
3. Regarding the educational status and literacy rate.
4. Demographic profile of the society.
5. Provides information about health and medical conditions.

1.4 SOCIO-ECONOMIC ASSESSMENT:-

Socioeconomic environment refers to a wide range of interrelated and diverse aspects and variables relating to or involving a combination of social and economic factors. These aspects and variables could, in general, be categorized into several categories including, economic, demographic, public services, fiscal and social. The social aspects may, for instance, involve community life as well as social and cultural attitude and values. Community services may meanwhile be concerned with housing and requirements for public services such as water, sanitation, communications, police

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TRAINING REPORT
ON

FIELD TRAINING (ATTACHMENT WITH STATE FOREST DEPARTMENT)

(Session: 2021-22)

SUBMITTED FOR PARTIAL FULFILMENT FOR THE REQUIREMENT OF BACHELOR'S DEGREE IN FORESTRY

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I wish her all the success in her academics.

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- Regional geometric center
  - GIS
- Nursery and it's management
- Honey processing unit

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❖ REFERENCES

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CHAPTER – 1

INTRODUCTION

1) Working Plan

A document that regulates wood production, silviculture and tending activities for a specific period of time through the application of prescriptions specifying targets, action and control arrangements. It is a written scheme of management aiming at continuity of policy and action and controlling the treatment of a forest. Forest division is the basic unit for working plan.

2) Regional Geometric Center

Geomatics is emerging as an effective tool in efficient natural resource management. It is a powerful tool to create database, generate maps, integrate information, and deal with problem solving. Visualize scenarios and develop various decision support systems. In recent times, techniques like Remote Sensing and Global Positioning Systems, when dealt in conjunction with Geographic Information systems (GIS), can provide accurate and authentic geo-information in spatial domain on earth"s surface features and associated processes.

- GIS
- Geographic Information System (GIS) is a system designed to capture, store, manage, analyze, manipulate, and present geographic or spatial data satellite remote sensing provides an important source of spatial data.

3) Nursery and it's Management

Nursery is defined as an area where plants are raised for eventual planting out. It comprises of nursery beds, paths irrigated channels etc. Nursery bed is defined as a prepared area in a nursery where seed is sown or into which seedlings or cuttings are raised.

Nursery management defined as the sum of the activities performed for the successful production, care, and marketing of different planting materials (seeds, seedlings, cuttings, etc.) in a different nursery section. Conducting employees properly, maintenance care and protection of properties, etc.

4) Honey Processing Unit

Where Small Scale Honey Processing Machine remove impurities, wax, pollen and water. Due to vacuum, boiling point of water which want to evaporate become low and water can remove at low temperature. Result in the concentration of honey.

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A

Report

on

" INDUSTRIAL TRAINING "

SUBMITTED FOR PARTIAL OF FULFILMENT OF REQUIREMENT

FOR THE DEGREE BACHELOR OF SCIENCE IN FORESTRY

ACADEMIC SESSION : 2021-22



Under the Supervision of:

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Submitted By:

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I wish her all the success in her academics.

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DECLARATION

I hereby declare that the field work entitled **"INDUSTRIAL TRAINING "** submitted to the **Guru Ghasidas Vishwavidyalaya** is a record of original work done by me under the guidance of **DR. GUNJAN PATIL** and this field work has been completed for the award of Bachelor degree in Forestry. The source of the materials and the assistance received during the field work has been duly acknowledged.

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CHAPTER 1.

SAW MILL

INTRODUCTION-

- The wood based industry means any industry which process wood as its raw material
- The wood industry is the industry concerned with forestry , logging ,timber trade and the production of primary forest products and wood products and seconday products like wood pulp for the pulp and paper industry.
- The demand for timber is estimated to increase from 58 million cubic meter in 2005 to 135 million cubic meter in 2020.
- In Chhattisgarh major timber species Babool (acacia nilotica), Sal(shorea robusta) , Teak (tectona grandis) , Shesham (dalbergia latifolia) , Bijasal (pterocarpus marsupium) , Deodar (cedrus deodara) and many more .

TYPES OF TIMBER INDUSTRIES

1. Pulp and paper
2. Wooden handicrafts
3. Plywood industries
4. Veneer industries
5. Wooden furniture industries.

TIMBER SPECIES ITS IDENTIFICATION –

S.NO	TREE SPECIES	BOTANICAL NAME	IDENTIFICATION	USES
1.	Babool	Acacia nilotica	The heart wood is pinkish brown or reddish brown and lustrous. Heart wood is heavy and heavy and hard vessels are small and some are filled brown gummy deposit .	Used for building doors , windows ,shutters and frames and also for agricultural tools handle .
2.	Sal	Shorea robusta	When freshly cut it is indefined by its light color and coarse gain , but become dark brown with exposure.	Used for built furniture ships and musical instruments .
3.	Teak	Tectona gradis	It has golden brown heart wood with black streaks .the heart wood has oily feel with a distinct smell resembling old leather . wood is moderately hard and heavy .	General purpose plywood , cabinet making and for decorative plywood .
4.	Mango	Mangifera indica	Wood is moderately hard and heavy , sap wood is yellowish white to greyish brown , vessel are large to medium , often filled with gums	Used in ceiling boards, window frames , general purpose class , plywoods, furniture

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DEPARTMENT OF FORESTRY, WILDLIFE AND ENVIRONMENTAL SCIENCES

GURU GHASIDAS VISHWAVIDYALAYA , KONI , BILASPUR, CHHATTISGARH

(CENTRAL UNIVERSITY)

A

Report

On

"SOCIO ECONOMIC SURVEY – VILLAGE GANIYARI"

SUBMITTED FOR PARTIAL OF FULFILMENT OF REQUIREMENT

FOR THE DEGREE BACHELOR OF SCIENCE IN FORESTRY

ACADEMIC SESSION : 2021-22

Under the Supervision of:

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I have great pleasure in certifying that **Miss Ayushi Yadav, D/o Ashwani Yadav** is a regular student of B.Sc. Forestry 8thSemester during the session of 2021-22 of **Department of Forestry, Wildlife & Environmental Sciences**. She had completed this survey entitled **"SOCIO ECONOMIC STATUS GANIYARI VILLAGE"** during this semester under my guidance.

I wish her all the success in her academics.

Date: 04/05/2022

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DECLARATION

I hereby declare that the field work entitled **"SOCIO – ECONOMIC STATUS OF GANIYARI VILLAGE"** submitted to the **Guru Ghasidas Vishwavidyalaya** is a record of original work done by me under the guidance of **DR. GUNJAN PATIL** and this field work has been completed for the award of Bachelor degree in Forestry. The source of the materials and the assistance received during the field work has been duly acknowledged.

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CHAPTER 1 - INTRODUCTION -

SOCIO-ECONOMIC SURVEY –

It is a tools designed to collect information as a mean of improving understanding of local resources management ,resources use and the relative importance of resources for households and villages.

SOCIO-ECONOMIC ASSESSMENT -

A socioeconomic assessment is a way to learn about the social, cultural, economic and political condition of any village including individual, group, communities or the entire area. The socioeconomic study is intended to

- Assess the prevailing socioeconomic condition in the study site. This includes provision of a baseline study and characterization the existing state of the study site. This will assist in identification of main concerns of village.
- Analyze the impact of the prevailing study on the socioeconomic structure of the study sites.
- Develop a set of guidelines for judging the local conditions.

AIM OF SURVEY: -

- To know about the local area, it's past and present, data regarding population, literacy, infrastructures, and various socio-economic problems.
- To know about the economic background of the village and the families.
- To know about their agriculture practices and involvement of forest and forest products in their life.
- To know about the educational status of the particular village and reasons of their educational backwardness if any.
- To know about the living standards of the villagers.
- To know about the transportation & communication facilities of the village.
- To know about the population growth and their views and consciousness regarding this.
- To know about the health and hygiene of the villagers and the medical facilities of the area.
- To know about the domestic production of the villagers.
- To know about the water supply, electricity and other fundamental requirements of the villagers.

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Report

on

" FOREST ATTACHMENT "

SUBMITTED FOR PARTIAL OF FULFILMENT OF REQUIREMENT

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ACADEMIC SESSION : 2021-22

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CHAPTER 1 –

INTRODUCTION -

PLANTATION AND NURSERY MANAGEMENT

Nursery is defined as a managed area where plants are propagated by seeds or vegetative means and are grown to a usable size before transplanting at the desired site or place. Nursery saves considerable time for the raising of the next crop

NEED FOR NURSERIES -

- To meet the afforestation needs for increasing the forest and vegetative cover.
- To meet the demands of reforestation works.
- To provide the seedlings for avenue, railways, and road side planting.
- To meet the farm as well as social forestry needs

PREPARATION OF NURSERY

1.Selection of site

* The nursery area should be nearer to the water source.

* Generally, the location should be partially shaded i.e. under the trees. If not, artificial shade is to be provided.

* It should be well protected from animals.

* Proper drainage facilities should be provided.

2. Selection of soil

A medium textured, loam (or) sandy loam soil is preferred. Soil should be rich in organic matter. Soil depth should be preferably by 15-25 cm.

3. Preparation of nursery beds

For raising flower seedlings, some permanent or temporary structures for seed bed may be prepared. These beds will be minimum 0.5 to 0.75 m high from ground level. The beds may be 0.75m to 1.00m in breadth and length may be as per the availability of land. The nursery beds will be prepared for storing of perennial plants or the plants that should be kept for sale.

4. Preparation of media for pr

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