

DEPARTMENT OF GEOGRAPHY

FIELD TECHNIQUES AND SURVEY BASED  
PROJECT REPORT



**Academic Session: 2025-26**

**LalBahadurShastri (LBS) Govt. College Saraswati  
Nagar, Distt. Shimla, Himachal Pradesh**

**Submitted by**

**Mr. KailashChauhan Assistant Professor,  
Department of Geography**



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Department of Geography LBS Govt. College Saraswati Nagar Distt. Shimla  
HP

## “Field Survey Report on the Physio-Socio-Economic Conditions of Mandhol Village, Jubbal Tehsil”

Fieldwork is an integral component of geographical studies as it enables students to observe and analyse real-world geographical phenomena directly. In this context, a Physio-socio-economic field survey was organised for the BA 3rd Year Geography Major Students by the Department of Geography, LBS Government College Saraswati Nagar. The main objective of the survey was to understand the physical, social, and economic conditions of Mandhol village located in Jubbal Tehsil and to provide students with practical exposure to geographical research methods.

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| <p><i>A. Prof. Kailash Chauhan to do the needful</i></p> <p>To,<br/>The Principal<br/>LBS Government College<br/>Saraswati Nagar.</p> <p><i>Subject</i> Application for permission to conduct field survey.</p> <p>Respected Madam,</p> <p>I respectfully state, we are the student of B.A. 3rd year in your college. As part of our academic work, we are requested to conduct a field survey in Mandhol village, Teh. Jubbal, Distt- Shimla (HP). The survey will be conducted under the supervision of Assistant Professor Kailash Chauhan sir. This field work is an essential part of our project work and will help us to collect primary data. We kindly request you to grant permission to conduct the field survey on 21/02/2026. We shall be thankful to you.</p> <p>Yours obediently,</p> <table border="0"><tr><td>Name</td><td>Roll No.</td><td>Sign.</td></tr><tr><td>Rajveer</td><td>2301101</td><td><i>[Signature]</i></td></tr><tr><td>Vanshika</td><td>2301019</td><td><i>[Signature]</i></td></tr><tr><td>Tarun</td><td>2301038</td><td><i>[Signature]</i></td></tr></table> <p>Principal<br/>LBS Govt. College<br/>Saraswati Nagar, Distt. Shimla<br/>HP-171206</p> | Name     | Roll No.           | Sign. | Rajveer | 2301101 | <i>[Signature]</i> | Vanshika | 2301019 | <i>[Signature]</i> | Tarun | 2301038 | <i>[Signature]</i> | <p>No EDN LBS-SN-2025-26/.../2026<br/>Office of the Principal<br/>LBS GC Saraswati Nagar District Shimla HP</p> <p>Dated Saraswatnagar 171206 20<sup>th</sup> February, 2026</p> <p><b>RELIEVING ORDER</b></p> <p>Sh. Kailash Chauhan Assistant Professor in Geography is hereby relieved today on dated 20.02.2023 (A/P) for one day field survey on dated 21<sup>st</sup> Feb., 2026 to Village Mandhol Tehsil Jubbal District Shimla HP.</p> <p><i>[Signature]</i><br/>Principal<br/>LBS GC Saraswati Nagar<br/>Saraswati Nagar, Distt. Shimla<br/>HP-171206</p> <p>Enclst. No. As above dated Saraswatnagar 171206 the 20<sup>th</sup> February, 2026</p> <p>Copy for information to:-</p> <ol style="list-style-type: none"><li>1. Sh. Kailash Chauhan Assistant Professor in Geography LBS GC Saraswati Nagar</li><li>2. Guard File.</li></ol> <p><i>[Signature]</i><br/>Principal<br/>LBS GC Saraswati Nagar<br/>Saraswati Nagar, Distt. Shimla<br/>HP-171206</p> |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Roll No. | Sign.              |       |         |         |                    |          |         |                    |       |         |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rajveer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2301101  | <i>[Signature]</i> |       |         |         |                    |          |         |                    |       |         |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Vanshika                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2301019  | <i>[Signature]</i> |       |         |         |                    |          |         |                    |       |         |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Tarun                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2301038  | <i>[Signature]</i> |       |         |         |                    |          |         |                    |       |         |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Institutional permission to conduct field survey at Mandhol village**

The field survey was conducted as part of the practical curriculum of geography. Prior to the field visit, students were given detailed instructions regarding the objectives of the survey, data collection techniques, and the preparation of questionnaires. They were also guided on how to conduct interviews with local residents and record field observations accurately. The students were divided into different groups, each focusing on specific aspects of the survey such as physical environment, settlement pattern, demographic characteristics, agriculture, and economic activities.



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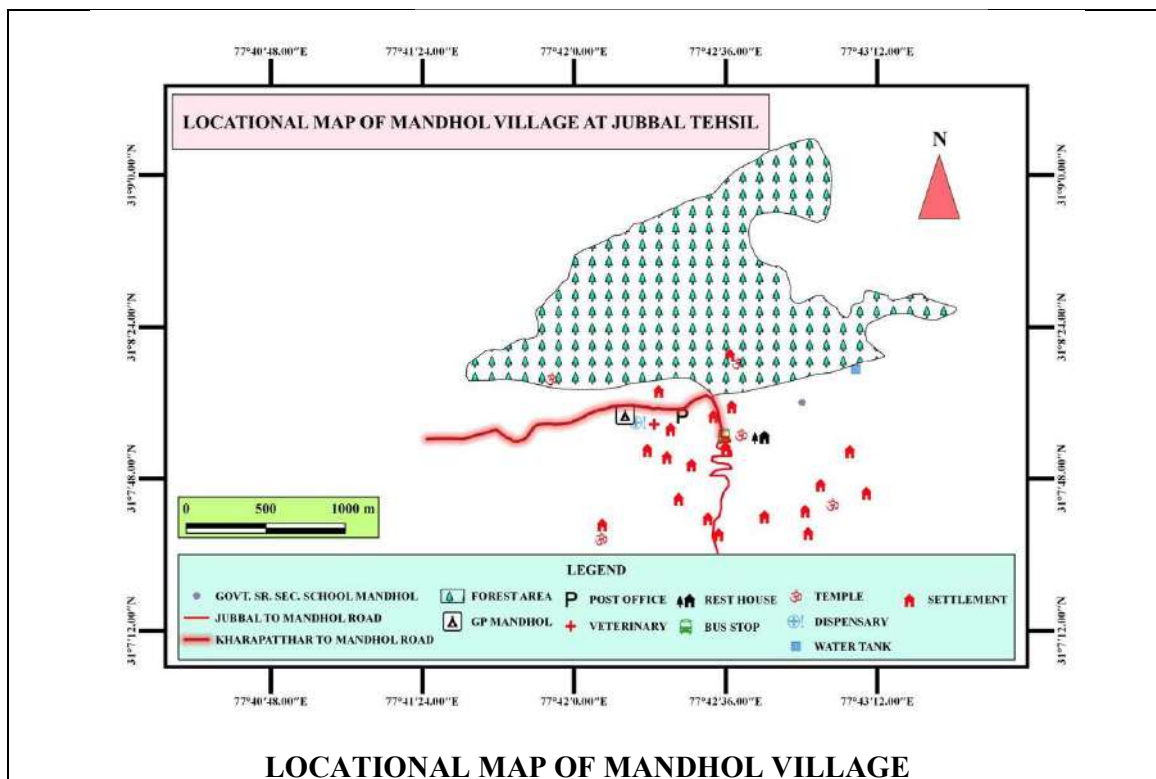
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Mandhol Village is located in the Middle Himalayas in Jubbal Tehsil of Shimla District, Himachal Pradesh (Pin Code: 171215). The village lies between  $31^{\circ}7'12''$  North latitude and  $77^{\circ}40'48''$  East longitude. According to our field survey, the elevation of Mandhol Village is 2360 meters above sea level. The terrain of the village ranges from 1453 meters to 2601. The village is characterised by hilly terrain, agricultural terraces, forest cover, and scattered settlement patterns. During the field survey, students carefully observed the physiographic features of the area including slope conditions, soil characteristics, drainage patterns, and vegetation cover. They also examined the influence of these physical factors on settlement distribution and agricultural practices.



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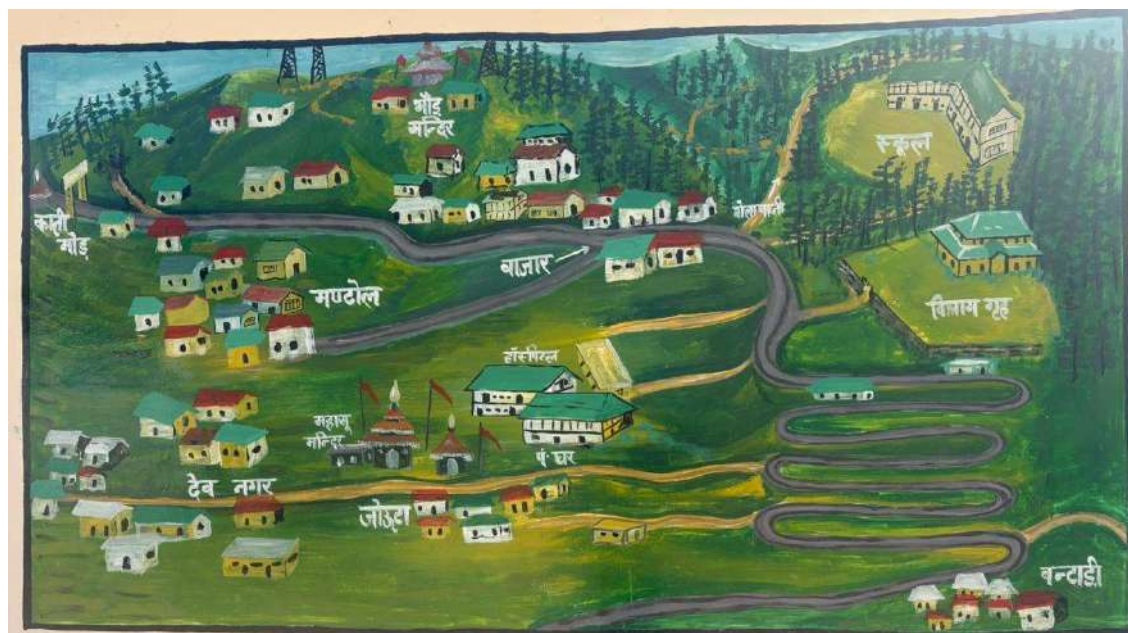
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**SKETCH OF THE MANDHOL VILLAGE**

The physical environment of Mandhol village plays a significant role in shaping the livelihood activities of the local population. The terrain is predominantly mountainous with moderate to steep slopes. Terraced farming is commonly practiced to make effective use of the available land. The soil in the region is generally suitable for agriculture and horticulture, especially for crops adapted to the temperate climate of the area. The village is surrounded by forest areas which provide fuel wood, fodder, and other minor forest products for the local inhabitants.

Water resources in the village mainly consist of natural springs, river pabbar lifted water and rainwater. These sources are used for drinking water as well as irrigation purposes. However, due to seasonal variations in rainfall, water availability sometimes becomes limited during dry periods. Students also noted the presence of traditional irrigation channels that help in distributing water to agricultural fields.



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**Water Storage Tank under Pabbar river Lift Water Supply Project for the Mandhol Village**

The survey also focused on the settlement pattern and housing characteristics of the village. It was observed that the houses are generally built using locally available materials such as stone, wood, and cement. Many houses are constructed in a traditional architectural style suitable for the mountainous environment. The settlement pattern is mostly scattered, which is typical of hilly regions where houses are built near agricultural fields and water sources.



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**Traditional and modern House type Settlement at Mandhol Village**

The socio-economic survey was carried out through personal interviews with the villagers and the use of structured questionnaires. Students collected information related to population size, family structure, literacy level, occupation, and sources of income. The survey revealed that the village has a moderate population with most families engaged in agriculture and horticulture.

The agriculture and the horticulture is the primary occupation of the villagers. The major crops grown for own purpose in the area include maize, wheat, barley, and vegetables, depending on the season. In addition to traditional farming, horticulture—especially apple cultivation—plays a significant role in the local economy. Apple orchards are widely found in the surrounding areas and provide an important source of income for many households. Some villagers are also engaged in livestock rearing, which contributes to household nutrition and income.



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**Modernism in Horticulture practices in Mandhol Village**

Apart from agriculture and horticulture, a small number of villagers are employed in government services, private jobs, and small businesses. The students also observed the tourism potential of Village Mandhol, as the scenic natural landscape, pleasant climate, and traditional rural lifestyle attract visitors to the area. It was found that some villagers are beginning to depend on tourism-related activities, such as homestays, guiding, and small local businesses, which contribute to improving their household income and local economy. Some youth also migrate to nearby towns or cities in search of employment opportunities. The survey highlighted that while agriculture remains the backbone of the rural economy, diversification of occupations is gradually taking place.

The students also examined the availability of basic infrastructure and public services in the village. It was observed that the village has access to basic facilities such as electricity, road connectivity, and Higher education. A GSSS school Mandhol serves the educational needs of the village children. Road connectivity has improved transportation and communication, enabling villagers to access markets and essential services more easily.



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**Govt. Sr. Sec. School Mandhol**

However, certain challenges were also identified during the survey. Access to advanced healthcare facilities remains limited in the village, and residents often need to travel to nearby towns for medical treatment. Employment opportunities within the village are also limited, which encourages youth to migrate for better prospects.

The field survey also provided insights into the social and cultural life of the villagers. The community maintains strong social ties and actively participates in traditional festivals, fairs, and cultural activities. These social institutions play an important role in maintaining harmony and cooperation within the village.



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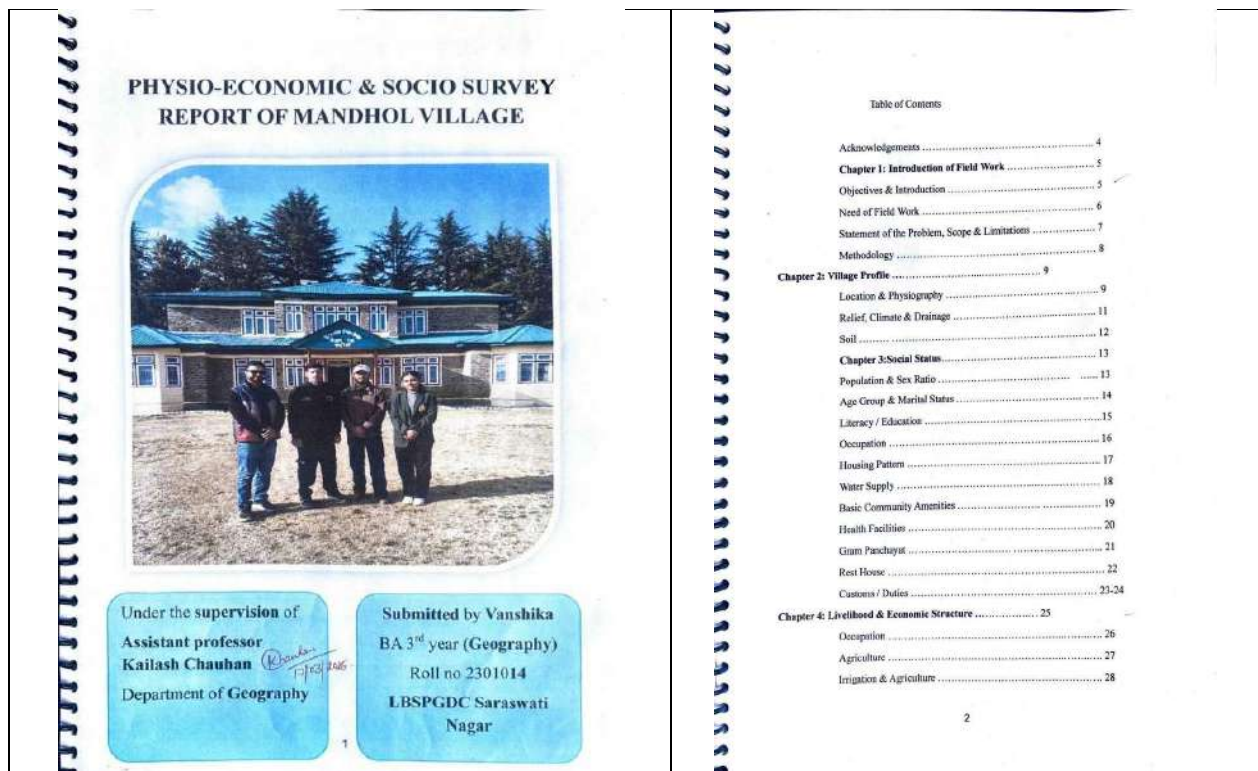


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The fieldwork proved to be a valuable learning experience for the students. It allowed them to apply theoretical knowledge gained in the classroom to real-life situations. Students learned how to conduct field observations, collect primary data, prepare sketch maps, and analyse socio-economic information. They also developed communication skills through interaction with local residents and gained a deeper understanding of rural life in the Himalayan region.

After completing the survey, the students compiled and analysed the collected data to prepare detailed field reports. The study highlighted the close relationship between the physical environment and socio-economic development in the village. The natural resources, landforms, and climate significantly influence agricultural practices, settlement patterns, and the overall livelihood of the local population.





### Acknowledgements

I would like to express my sincere gratitude to **Assistant Professor Kailash Chauhan, Department of Geography, LBS Post Graduate Degree College, Saraswati Nagar**, for guiding us during the field survey and providing necessary suggestions.

I am also thankful to my fellow students who assisted me during the survey and data collection in Mandhol Village.

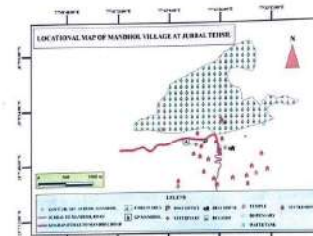
Their support has made this practical project report possible.

*Rohit*

### Chapter 2 Village Profile

#### Location

Mandhol Village is located in the Middle Himalayan in Jubbal Tehsil of Shimla District, Himachal Pradesh (Pin Code: 171215). The village lies between 31°7'12" North latitude and 77°40'48" East longitude. According to our field survey, the elevation of Mandhol Village is 2360 meters above sea level. The terrain of the village ranges from 1453 meters to 2600 meters.



The village is connected to nearby towns and markets through local roads, allowing accessibility for residents, traders, and visitors. Although the road network is limited due to the hilly terrain, transportation is generally manageable, with government and private buses operating on nearby routes. The location of Mandhol in the hilly region of the Middle Himalayas makes it naturally scenic, with abundant forest cover, diverse vegetation, and mountain landscapes surrounding the settlement.

The village's strategic position within the region also impacts its economic and social life. Its proximity to Jubbal Tehsil allows villagers to access markets, educational institutions, healthcare facilities, and other services. However, the mountainous location also presents challenges, such as limited flat land for agriculture, vulnerability to landslides, and dependence on hillside water sources. Overall, the geographical location of Mandhol Village

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durable, safe, and capable of withstanding harsh weather conditions. The prevalence of pucca houses reflects the increasing income levels and economic progress of the villagers.

In earlier times, many families lived in traditional kachcha houses made of mud, wood, and locally available materials. Over time, with economic advancement and improved financial conditions, almost all families constructed new pucca houses for regular residence. Nevertheless, some of the old kachcha houses still exist in the village. These structures are not abandoned; instead, they are used for secondary purposes such as storing agricultural produce, keeping farming equipment, or serving as cattle sheds.

The existence of these traditional houses represents the cultural heritage and historical lifestyle of the community. It also demonstrates a gradual transition from traditional housing patterns to modern construction practices. In addition to pucca and kachcha houses, a few semi-pucca houses can also be observed, indicating an intermediate stage of rural housing development. Overall, the housing condition reflects economic improvement while preserving elements of traditional architecture.



Fig:- Traditional House

This image shows a traditional kachcha house made of mud and wood. Although most families now reside in pucca houses, such structures are still used for storage and secondary purposes."

*Rohit*

### 7. Water Supply and Irrigation System

The village has access to clean and safe drinking water, which ensures healthy living conditions for the residents. Most households receive potable water from reliable sources, and there are no major issues related to drinking water availability. The presence of safe drinking water reflects improvement in rural infrastructure and public health awareness.

However, irrigation water remains a major concern, especially during the summer season when water scarcity becomes more severe. Due to limited rainfall and increasing water demand for orchard farming, agricultural productivity can sometimes be affected.

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children and women. Although advanced medical facilities may not be available, the existing infrastructure fulfils the primary healthcare needs of the village. The accessibility of healthcare services significantly improves the overall well-being and quality of life of the residents.

A health institute is located near the village at a distance of approximately 100-200 meters. It provides basic medical facilities and primary health services to the villagers.

### Health Infrastructure: Ayushman Bharat Health Centre



Fig:- Primary Health Centre

*Rohit*

### 10. Administrative and Community Institutions

The village also has important administrative and community buildings such as:

- **Panchayat Bhawan** - for local governance and meetings.
  - **Mukhyamantri Bhawan** - used for government-related programs and public gatherings.
  - **Patwar Khana** - for land records and revenue-related work.
  - **Mahila Mandal Bhawan** - used by women for meetings, social activities, and community programs.
- These institutions help in the smooth functioning of administrative, social, and developmental activities in the village.

### 11.1 Gram Panchayat Bhawan (Village Administrative Building)

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Mandhol, Himachal Pradesh, India  
Latitude: 31.0000, Longitude: 77.0000  
Elevation: 171206 (6957) feet (5221) m (171206)



The Gram Panchayat of the village plays a significant role in local governance and rural development. It is located within the village premises, making it easily accessible to all residents. The Panchayat functions efficiently and actively participates in implementing

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various government schemes related to sanitation, water supply, road construction, and welfare programs.

Regular meetings are conducted to discuss village-level issues and developmental plans. The Panchayat ensures proper maintenance of public facilities and encourages community participation in decision-making. Due to its active functioning, the village administration remains organized and responsive to the needs of the people. Overall, the Gram Panchayat serves as the backbone of rural administration and contributes positively to the social and economic progress of the village.

**11.2. Mukhyamantri Bhawan (Community Hall)**

The village also has a Chief Minister Building (Mukhyamantri Bhawan), which serves as an important community asset. This building is used for organizing public meetings, awareness programs, training sessions, and social gatherings. It provides a common platform for villagers to participate in developmental discussions and government-related activities.

The availability of such infrastructure reflects the government's commitment towards rural development. The building enhances community interaction and supports administrative coordination at the village level. It also serves as a venue for cultural and social events, thereby strengthening social unity and cooperation among villagers. Overall, the Mukhyamantri Bhawan contributes to the administrative efficiency and social harmony of the village.



Mandhol, Himachal Pradesh, India  
Latitude: 31.0000, Longitude: 77.0000

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**3. Occupation / Livelihood Details**

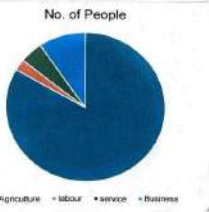
The primary livelihood of Mandhol village is agriculture, which forms the largest source of employment in the area. Most families cultivate apples, pears, cherries, and seasonal vegetables, primarily for commercial purposes, selling the majority of their produce in local and regional markets. Horticulture income is now considered part of agriculture since it represents the main economic activity and supports the majority of households in the village.

A small portion of the village population is engaged in business activities. Some individuals run their own shops, including grocery stores, vegetable shops, and other small-scale businesses. Certain families are involved in the trade of agricultural produce, selling their crops directly to consumers, local markets, or nearby villages. These business activities not only generate income for the families but also contribute significantly to the overall economic activity of the village. The additional income earned through business helps households cover daily expenses, children's education, healthcare, and other essential needs.

People engaged in business also provide economic stability and employment opportunities within the village. In many cases, small-scale business operations create jobs for other villagers as well. Furthermore, by participating in trade, villagers gain exposure to market dynamics and consumer interactions, which enhances their business skills and economic awareness.

Services, such as government or private jobs, provide employment to only about 1-2% of the population. This includes teachers, Panchayat staff, and minor administrative positions. Additionally, some families engage in sheep and goat rearing, primarily for personal use, meat, and supplementary income.

| Occupation  | No of people |
|-------------|--------------|
| Business    | 4            |
| Agriculture | 35           |
| Labour      | 1            |
| Service     | 2            |



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**10. Livestock and Veterinary Services**

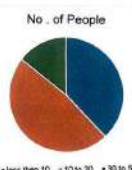
Livestock plays a vital role in the economic life of the village. Many families are engaged in animal husbandry alongside agriculture. It provides an additional and stable source of income for the villagers.

The main domestic animals in the village include cows, buffaloes, goats, and sheep. Cows are primarily reared for milk production, which is used for household consumption and sold in nearby markets as milk, curd, and ghee. This ensures both nutrition and income for the families.

Goats and sheep are reared for meat, wool, and extra income. Animal dung is used as natural fertilizer in fields, improving soil fertility and reducing the need for chemical fertilizers.

Moreover, the village has veterinary services available. Livestock can be vaccinated, treated, and given medical care here, ensuring their health and productivity.

Thus, animal husbandry not only strengthens the villagers' economic condition but also supports agricultural activities.



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**“Photographic Glimpses of the Survey-Based Project prepared by the Students”**



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In conclusion, the field survey proved to be an enriching learning experience for the BA 3rd Year Geography Major Students. It helped bridge the gap between theoretical knowledge and practical application. The survey enabled students to analyse the relationship between the physical environment and human activities in a rural setting. Such field-based studies are extremely important for geography students as they encourage critical thinking, research ability, and a deeper understanding of geographical realities. The Department of Geography plans to continue organizing such surveys in the future to further strengthen the practical knowledge and field experience of the students.

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