SRIPAT SINGH COLLEGE

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PO. Jiaganj, Dist. Murshidabad, West Bengal, PIN-742123

https://www.sripatsinghcollege.edu.in/, Email: sscollege2009@gmail.com,

Fax: (03483)256961

Department of Geography

Notice

Date: 08/07/2023

Geographical excursion will be on Namchi Village, Sikkim from 2nd to 7th October 2023,

It is notified for all 5th Semester Honours Students of department of Geography that a geographical excursion will be on Namchi Village, Sikkim from **2**nd **to 7**th **October 2023**, West Bengal under Semester – V, Paper- GEO/H/CC/P11. All the students may contact the undersigned for the participation.

Head of The Department of Geography

Santi Mandal

Dr. SAKTI MANDAL Head, Assistant Professor Department of Geography Sripat Singh College, Jiaganj DR, KAMAL KRISHNA SARKAR Principal SRIPAT SINGH COLLEGE Jiaganj, Murshidabad

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Fax: (03483)256961

To, Date: 08/07/2023

The Principal

Sripat Singh College, Jiaganj, Murshidabad

Subject: Request for Permission for Geographical Excursion for Honors Students

Dear Sir/Madam,

I am writing to request permission to organize a geographical excursion for the Honors students of Semester - V. This excursion will serve as an important part of our academic curriculum, allowing students to gain practical experience and a deeper understanding of various geographical concepts studied in class.

We propose to visit Namchi Village, Sikkim from 2nd to 7th October 2023. The visit will offer an opportunity for the students to study socio-economic as well as geographical features, such as landforms, climate, ecosystems, etc., which are highly relevant to their ongoing studies. The trip will be accompanied by faculty members Dr. Ajoy Debnath and Mr. Biswajit Chowdhury, who will guide and supervise the students during the excursion.

We assure you that all necessary safety measures will be taken, and a detailed itinerary, including transportation and accommodation arrangements, will be submitted for your review prior to the excursion.

We kindly request your approval and support for organizing this academic excursion, as it will significantly enhance the learning experience of the students.

Thank you for considering our request. We look forward to your positive response.

Yours sincerely,

Dr. SAKTI MANDAL Head, Assistant Professor Department of Geography Sripat Singh College, Jiaganj



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> E-mail <u>sscollege2009@gmail.com</u> *Web: www.ss-college.org*

> > Date: 20/09/2023

DEPARTMENT OF GEOGRAPHY

To, The Principal Sripat Singh College, Jiaganj, Murshidabad, Pin- 742123

Sub: Prayer for withdrawal of 25,000.00 (fifteen thousand only) for (expenditure funds)

Geographical excursion from 2nd to 7th October 2023.

Respected Sir,

I would like to inform you that, the Department of Geography, Sripat Singh College, is going to arrange a Geographical Excursion is Namchi Village, Sikkim from **2nd to 7th October 2023** taking B.Sc. 5th Semester Honours students guided by two respected teachers of the Department.

So, I request you to allow me to draw the above-mentioned rupees as an expenditure purpose for the said educational tour and obliged.

Thanking You

Head of the Department of Geography

Dr. SAKTI MANDAL Head, Assistant Professor Department of Geography Sripat Singh College, Jiaganj

Sayti Mandal

List of Students of Semester - V (Hons) for Geographical Excursion Namchi Village, Sikkim from 2nd to 7th October 2023

NAME	AGE	SEX
BIPASHA DAS	19	F
ANWESHA SAHA	19	F
ARGHA GHOSH	20	М
SUPRIYA MONDAL	19	F
SIMRAN SARKAR	20	F
SOUMYAJIT PAL	20	М
SABNUR AKHTAR	20	F
SAMSUNNEHAR KHATUN	19	F
MOMOTAJUR RAHAMAN	22	М
AKTARUNNESHA KHATUN	19	F

NAFISA LIJA	20	F	
SARIJUL SK	21	М	
KRISHNA DAS	19	F	
NIPA SARKAR	19	F	
PRIYA MONDAL	19	F	
JOYTI MONDAL	20	F	
ARUPANANDA BHADURI	20	М	
MUSTAK AHMMED	21	М	

SAMPURNA ROY	20	F
SHREYA SINHA	19	F
MEHERUNNAHAR	21	F
JESMIN JAHAN DOLY	20	F
SUBARNA MONDAL	21	F
PRIYANKA MONDAL	20	F
HASMOT ALI	20	М
ASIF ALI	20	М
RAMEN DAS	20	М
TARAK DAS	20	М

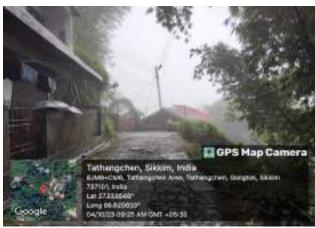
ADITYA PARDHAN	20	М
SAYAN PAUL	20	М
GOPAL MONDAL	21	М
SURATH MONDAL	20	М
EMON RAHAMAN	20	М
KOBIRUL HASAN	23	М
TOHIRUL ISLAM	20	м
NUR AMIN	20	М
MD ALAMIN	20	М

Photographs of Geographical Excursion Namchi Village, Sikkim from 2nd to 7th October 2023









SNIVERSITY OF KALYAN

FIELD WORK BOOK

SOCIO-ECONOMIC STRUCTURE OF
TATHANGCHEN AREA OF GANGTOK
DISTRICT OF SIKKIM

BY ARGHA GHOSH

ROLL: - 2115247 NO: - 2189030

REGN NO: - 091523 SESSION:- 2021-2022

SEMESTER: - BSC GEOGRAPHY 5th SEMESTER



ACKNOWLEDGEMENT !

A field Report is a partial fulfilment of B.SC. HONOURS 5th SEMESTER Of Kalyani Undversity. In the very worth the physical and and socio-Economic aspect of Tathangchen Abrea, in Grangtok, Sikkim - 737101, India has been preprosented almost all minute details.

Firstly, I expressed gratitude to head of the Dept. Dr. Salti Grandal six and Professor Dr. Ajay Debnath siz to make own field study successful in short dioration with their approprite and convenient planning and by Providing their valuable advice to us.

Lastly, Jans thankful to all of my good wishers, teachers, parents and classmotes for spending their time in helping and giving support whenever I need it in fabricating my project.

CONTENTS

- 1 A BRIEF HISTORY OF SIKKIM STATE
- 2 SOCTO-ECONOMIC PROFILE
- 3 TRANSPORT AND COMMUNICATION
- 4 CONCLUSION

CHAPTER-1

A BRIEF HISTORY ()F

INTRODUCTION

Sikkim is a small mountainous state in the Eastern Himalaya Region in India. It covers an area of 7,096 km², extending approximately 114 km from North to South and 64 km from East to west. The state is situated between 88°00'58" East clogitude to 88'55' 25" East lengitude and 27"04' and 28" 07' 48" North Latitudes. It is surrended by rust strutches of Tibe tan plateau in North, chumbi Valley & Kingdom of Nepal in the west with nine sub-divisions and eight town the state has four divisions and eight town the state has four divisions and eight hown the state has four

The state being part of sinner Tranges of mountains of Himalayas has no open valley and no plains but varied elevations granging from 300 to 8583 m. above mean sea and snow bound land.

The Himalayas is our country's pride and is a symbol of value system. They are in almost every way superlative. They are the almost mountain range on Earth with just about highest mountains in them. They form one of all the highest mountains in them. They form one of the greatest physical and certain borriers and the greatest physical and certain borriers and they are stupendowsly beautiful, still trelatively they are stupendowsly beautiful, still trelatively unspoilt and full of fiscianting human and

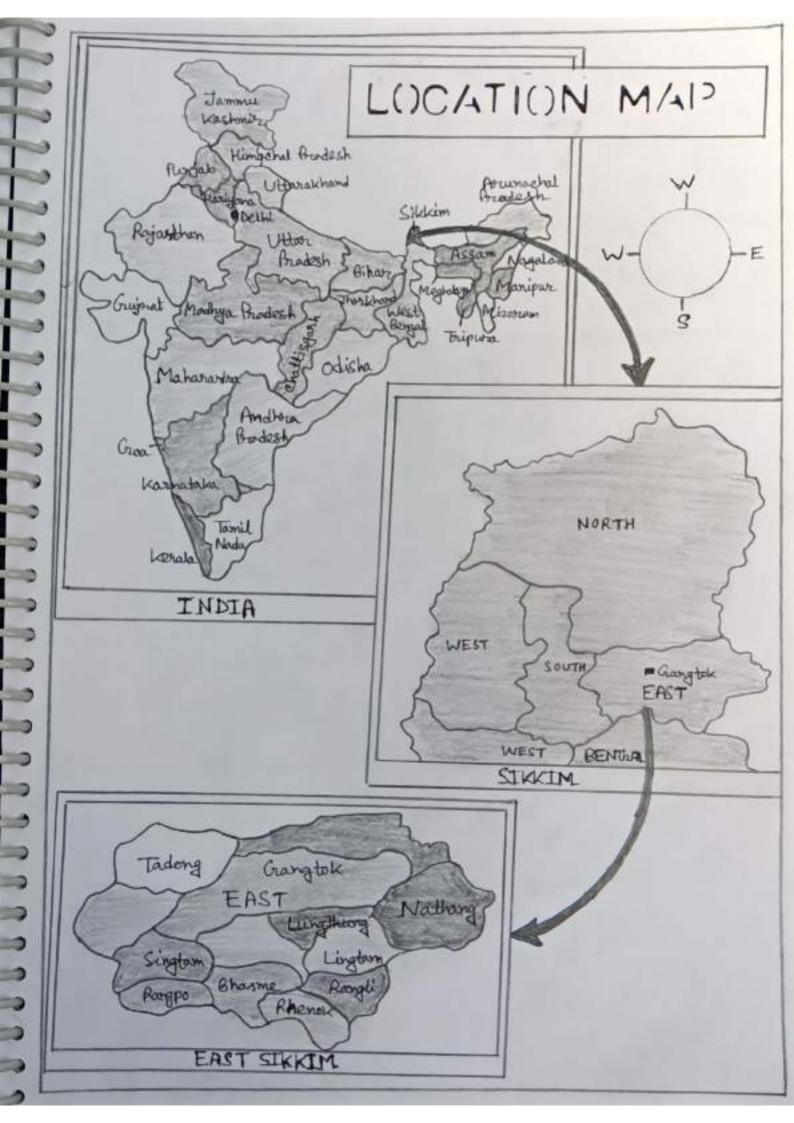
and natural life. A comprehensive study on the environmental and social changes in the entire Himalayor maybe the need of time to identify and justify the methodology of change, which is consisted with preservation of Himalayar values, heritage, natural resources of the area.

AREA INTRODUCTION :-

The total geographical orea of the state is 7096 59km, but according to 1958-60 survey operation and the Graztder of sikkim, the land orea under different utilization catagories in 7299 59km. Detailed break up isosphlows:

Land Use pattern	Area intootha	Area in 1.
Borosen Land	209.01	28.28
Land put to Non-agricultural use	69.96	9.58
Personament partures and grazing land including cultivable waste	102.49	14.40
Lard under miscellaneous tree crops and grasses	4.17	0.57
Forest land	265.21	36.34
Land under operational	79.06	10.83
Total	729.90	150.00

Source: Internet



NATURAL RESOURCES !-

The Sikkim Himalayers has excellent scope for value added eco - townsom and toraditions, unique in Aut, culture, and folks dances live in perfect harmony and it is one of the most peaceful states in the country. There is strong sense of community living with distorict commitment in the people to some the society. They have the strong sense of voluntarism.

The state is bestowed with abundant natural presources. Covering just 0.2%, of the geographical area of the country, it is timendous biodiversity and has been identified as one of the Hot spot for biodiversity. The Sikkim Himalayars that sporead over sikkim and the hill Izegion of Parjelling over sikkim and the hill Izegion of Parjelling harbors more than 26% of the flowering plants

country and known to be an important phytogeographical reserve
of the country. Species
uise, it has about
4500 Flowering plants,
550 orichids 2227 High
altitude lakes and
watelands and over
104 giver and streams.

Table! Wild Biodiversity at a Glarce
Flowering plants: 4500
Mommals: 144+
Buttorflies; 600+
Birds: 550
Fishes: 48
Rivers and Streams, over 104
Lakes and Wetlands, 227
distribution to the second

Source Internet

The aborupt telescoping of the terrain from the hot steamy foothill valleys to the artic cold of the snow capped peaks, which has produced the marked altitudinal romation in the rainfall, humidity, climate and regetation is also responsible for the great variety and numerical abundance of the resident tool life, making sikkim perhaps the richest area of its size any where in the world.

and nearly 82% of the total greatraphical area of the state is under the administrative control of the state forest perartment. This proposition is one of the largest in the country. The forest cover of the state is 46% of the total geographical area of the state is 46% of the total geographical area of the state.

This figure is one of the largest in the country There is one high largest in the country there is one high altitude National Park and Six Wildlife Santvaries, which together constitute over 31% of the total geographical area of the State.

-

93

-

20

-

-3

Table! Sikkim	Recorded
Forest	Aorea
Reserve Forest	5452 Alam
Protected Forest	389 SA lam
Total	5841 Sylon
very Dense	458 69 km
moderately Done	1904 Sqkm
Total	3262 Shkm
Total Forest and tree cover	3284 S9km
Source ! Interne	

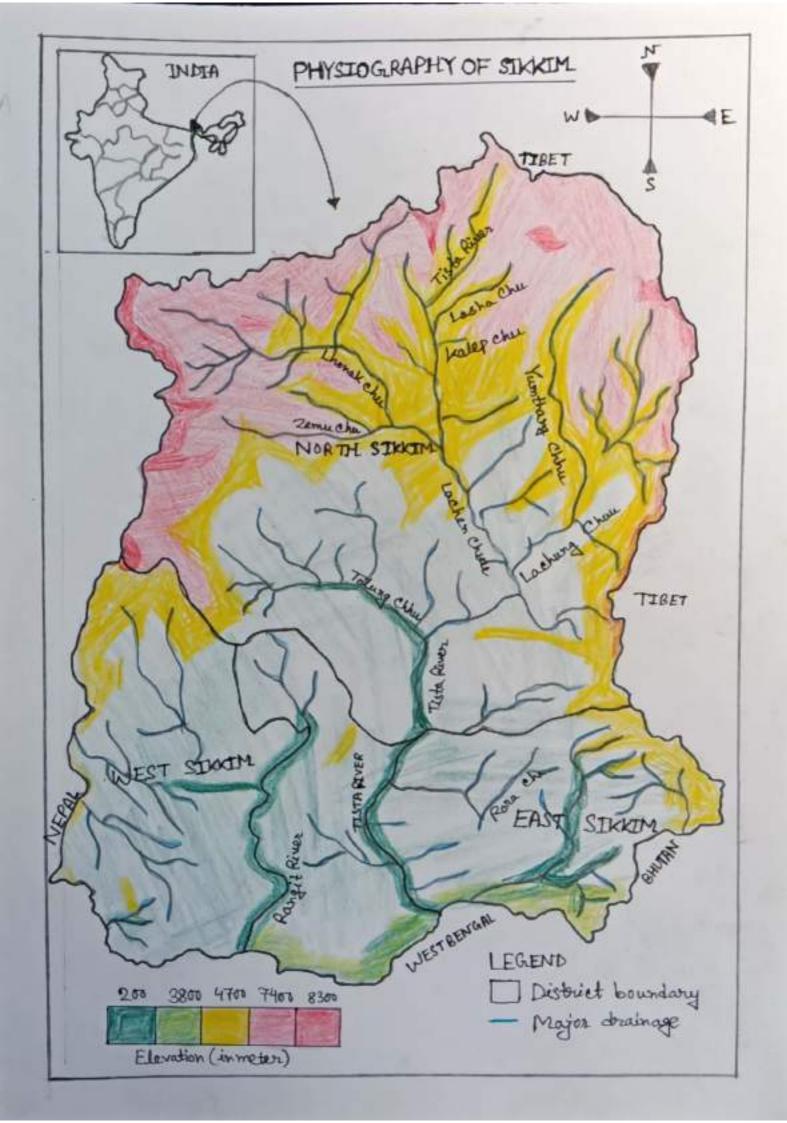
A BRIEF PAST HISTORY .

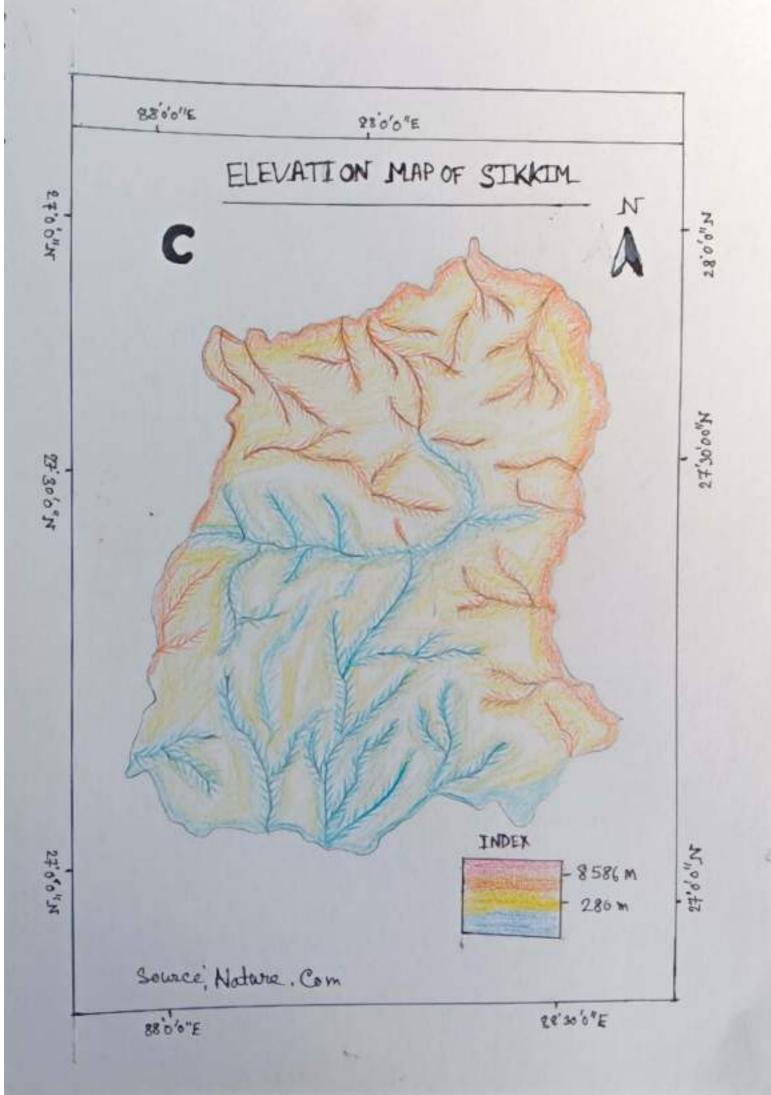
The Tenth eneggal (maharajah) of Sikkim after completing his studies in oxford university in 1988 was given the charge of forests, honasteries and and schools. The forest pepartment was Constituded in 1909. As per notification dated 15.05.1911 (F.D). The Maharajah of Sikkim was decleared a "Forest officer". In 1909 the then demarcation of the forcest areas of the then support system and required full protection were set. A Part as Reserve forests. These forests were to be left in their natural state and heavy penalties were imposed for illegal activities in these wreas. Other forest wreak that could be worked on a small scale in order to meet the timber and fuel wood requirements of the local populace were curved out in the vicinity of village. Those forest that were set a part in this manner to meet the wood graquirment of the local people were called knownal forests and those that were set a part of grazing grounds for the village cattle were called Grouchagian Forests. Forest rule and regulation were first of all instituted during thes period.

PHYSIOGLRAPHY:

Physiographically, Sikkim can be said to have its feet in the ocean and its head in the sky. The altitudes vary from 300 meters to 8500 meters above mean sea level. The entire state is a young mountain system with highly folded and foulted rock stratast many places. It encomposses the lesses Himalayas, central Himalayar and the Tethys Himalayar Grereat Mountain running from 3000 meters to 8500 meters in height separates the state from surrounings, In fact, it has no flat liece of land good size and where. Major portion is covered by the precambrain rock and is much younger in age. The rock type consists of phyllites and Schists and therefore, the slopes are highly succeptible to weathering and prione to erosion and landslides. The triend of the mountain system is in general east west direction. The mountains rise in elevation northword. The norther portion of the state is in general east-west direction. The mountains rise in elevation nogethword.

Soil of the region being the nutrient medium, is indispersable in registations.





GEOLOGY OF SIKKIM

Greneral Description;

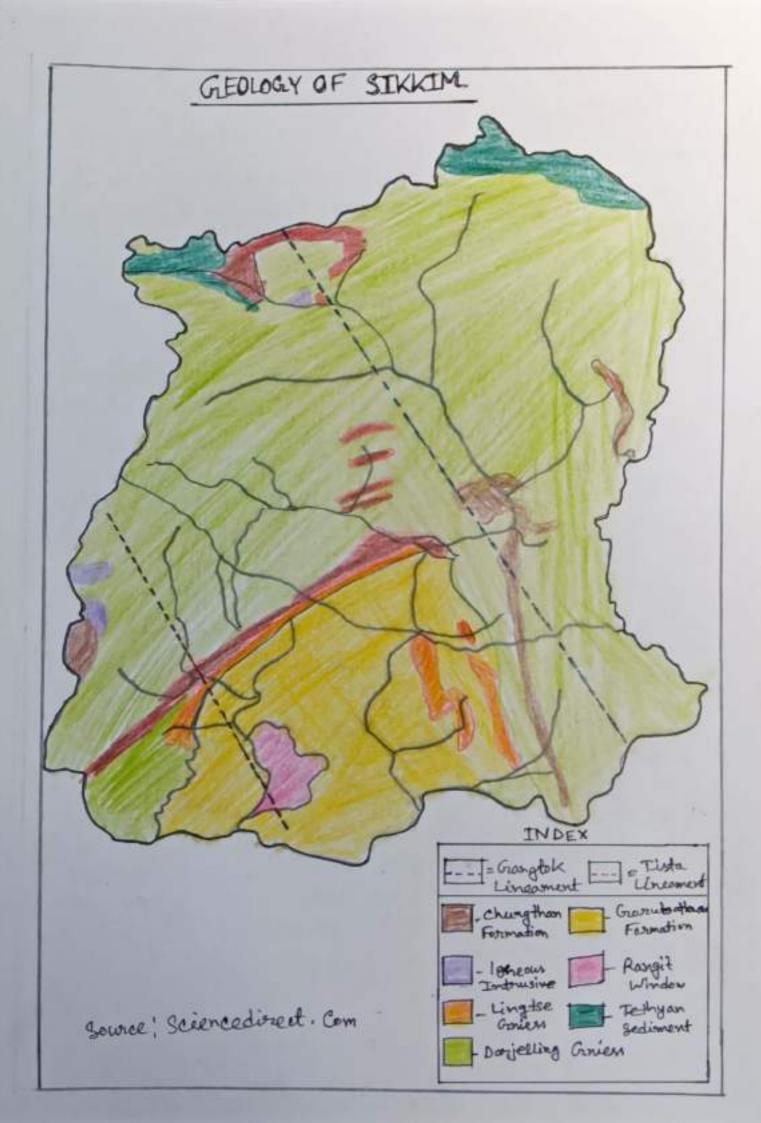
Sikkim or Sikkim Himalayar is mostly covered by Precambrian metapelites of low to medium grade and baxa carbonale-quartize association, high genisses with deformed granite greiss. The Palaco zocic - Mesozoic grocks include Grandawana - equivalent Righi group and Tethyan Grocks, Each of these stocks ranging in age mostly from pretero-Zoic to Mesozoic has district rectione-sadimentory, may matic, meta monphic and structural characteristics The major Lithotypes of Sikkim Tregion belong

to the eastward extension of Frock types of Nepal Himalaya which complex fold - thoust tectorestrotigne phic sequences forming nappes, mindows klippen etc.

the phenomenon of Inverted Metomorphism seen in the Sikkim Himalaya, problem also pertains to the mechanism by which Tethyan phanero zoicsequence escaped regional metamorphism.

Southern Part or Grangtok Division:

Different types of rocks and ninerals have been found in South district. Some of them are quarticle , each granite etc. which are not useful for the agricultural purpose. The hard rocks in agricultural fields are difficult to break and gramove. The soft rock struta, after breaking of materials like phylites conglomerates. Pebbles / soil etc. are to some extent useful for agricultional field. In general, the Buxa formation is better suitable for cultivation compared to the Daling.



SOIL OF SIKKIM

General Definition :

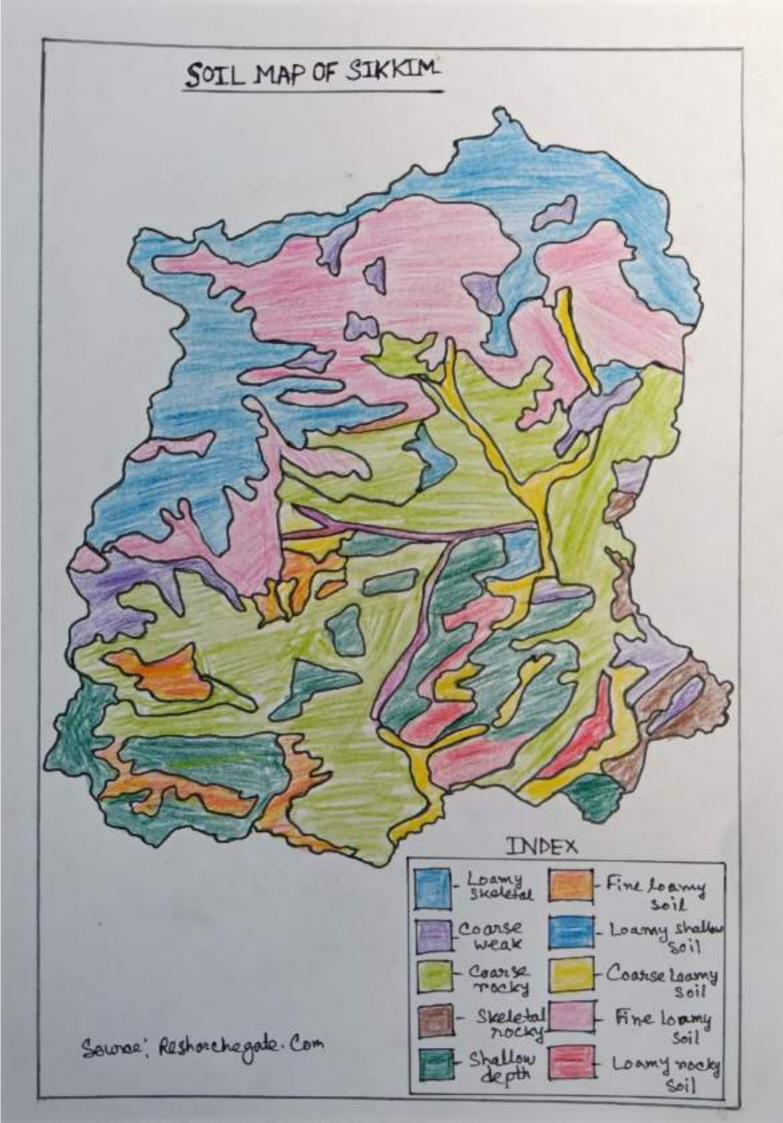
Silkin enjoys a wide trange of climate physiography, geology and vegetation that influence the formation of different kinds of Soil. Soil occurring in different landonness are studied in respect of their morphology. Physical and chemical echaracteristics.

The soil of Silkim belong to 3 orders, 7 suborders, 12 groups and 26 subgroups, 5t is observed that irreptisols are dominant (42.84%). Followed by Enlisals and Mellisals occupied 42.52%, and 14.64%, respectively. The soil of the south district in general have been dorined from parent rocks such as sandstone, phyllite, schist Gneisses are most dominant among them. The soil are generally acidic to very acidic in reaction having soil PH between 5.0 and 6.0.

Soil Fertility:

Based on the soil tested by Sikkim state Soil Testing laboratory, fertility status of Soil are prepared laboratory, fertility status of Soil are prepared following the standard tratings into low, medium following the standard tratings in respect of each and high Soil fertility closses in respect of each nutrient, the nutrient indices was calculated by using the formula — (1. lowx 1+1/Melium?

Soil nutrient index = (1. lowx 1+1/ Medium 2 21, Highers)

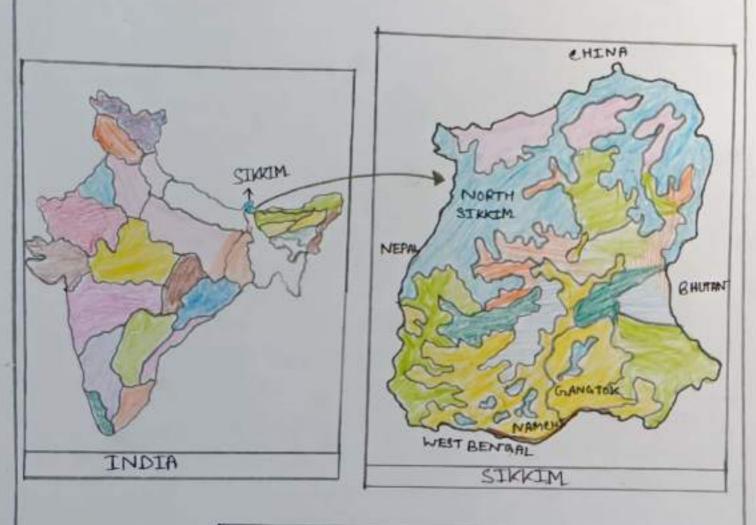


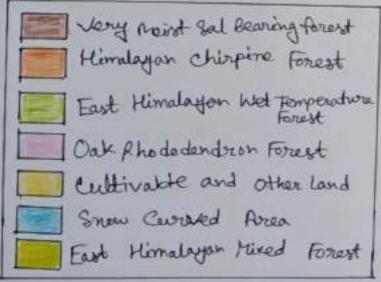
VEGLETATION OF SIKKIM

rearry is the major land use in the state and rearly 82%, of the total geographical area of the state is under the administrative Control or the state is under the administrative Control or the state threst Department, this portion is one of the largest in the country. The forest Cover of the state 46% of the total geographical area of the state. This figure is one of the largest in the country. There is one of the high attitude National Country. There is one of the high attitude National Park (cum Biosphere Reserve) and six Wildlife Santwaries which together Constitute over 31%. Santwaries which together Constitute over 31%. Of the total geographical area of the state. Overing just 0.2% of the geographical area, Sikkin Shows tremendom biological diversity.

	DED FOREST AREA
Resourced Forest	54525) km
protected forest	389 SP. Lom
Total	58 41 59 km
very pense	458 SA Km
Moderately Dense	1904 Sq.km
Total	3262 SJKm
Total Forest and	32 84 Sq. Km

VEGITATION MAP OF SIKKIM



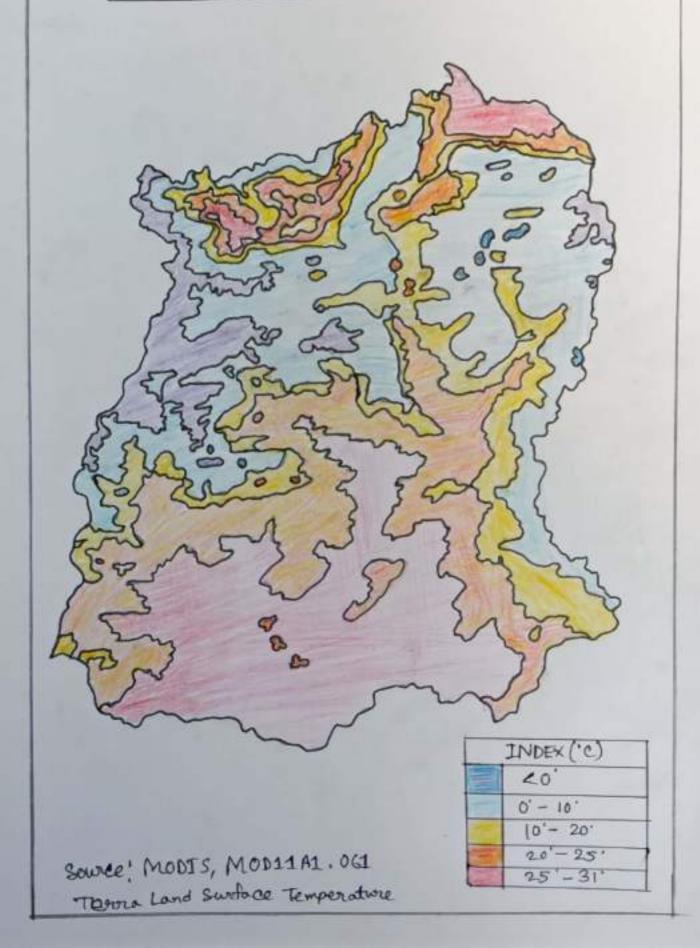


Climatically, Sikkim experiences variable temperatu The with summer in toothhills and freezing winter on the high mountains. The climate of the state has been divided gravely into the topical, temperature and alpine zoner, the general torends of decrease in temperature with increase in altitudes hold every where. For most of the Period in a year the climate is cold and humid as trainfall occurs in each months. The area experiences a heavy grainfall due to Its proximity to the Bay of Bengal. The states recieves an average annual rainfall of 500 cm, which is the highest in the eastern Kimalayas. The high density of trainfall causes extensive sail erosion and frequent landslides. The premeonsoon grainfall occurs in April-May and the Moonsoon occurs negenally from the month of May and continues up to early October. The tempegrature varies with altitude and slope. Maximum temperature is neconded usually during the month of July and August and minimum during December an January. During the period from May to September, fog becomes a common feature in this area. Also during minter, snowfall is Common in high altitude places. The mean temperature in the lower altitudenal zones vouries between 4.5°c to 18.5°c, where as at

higher altitudinal zones, it varries from 1.5'c to 9.5'c with biting cold experience at high altitude places in the winter months.

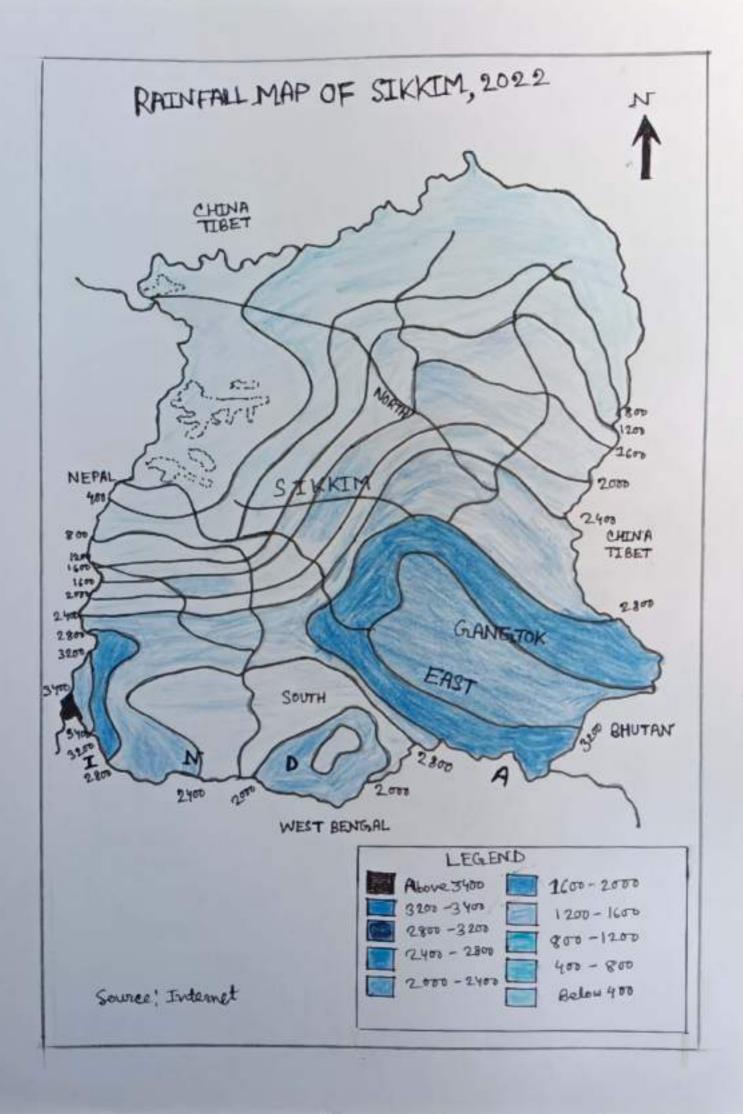
divided into the Tropical. Temperature and alphine Zones. For most of the periods in a year, the climate has cold and humid as trainfall occurs in each month. The area experiences a heavy trainfall due to its. Proximity with the Bay of Bengal. The trainfall in North District is comparetively less than of the other districts.

SIKKIM'S LAND SURFACE TEMPERATURE



RAINFALL:

An examination of available Trainfall data shows that the mean annual trainfall is minimum at Thangh (82 mm) and maximum at Georgeok (3494inm). An isohyelal analysis trainfall areas (i) South east quadrant, including Nangan, Singhik, Nikohu, Grangtok, Rongli etc. (ii) south - west regions, there is low trainfall tregion e.g. Namchi. Rainfall in this area is a area in the North-West Sikkim Which gets very little grainfall (even less than 4.9 mm). This area is having mainly snow covered mountains. Rainfall is heavy and well distributed during the months from May to early October. July is the the wettest month in most of the places, The intensity of of rainfall during south-West monson season decreases from South to North, While the distribution of winter trainfall is in the opposite order. The highest onnual grainfall for the individual station may exceed 5000 mm. and average number of rainy days (days with train of 2.5 mm. or more) granges from 100 at thangu to 184 at Grangtok.



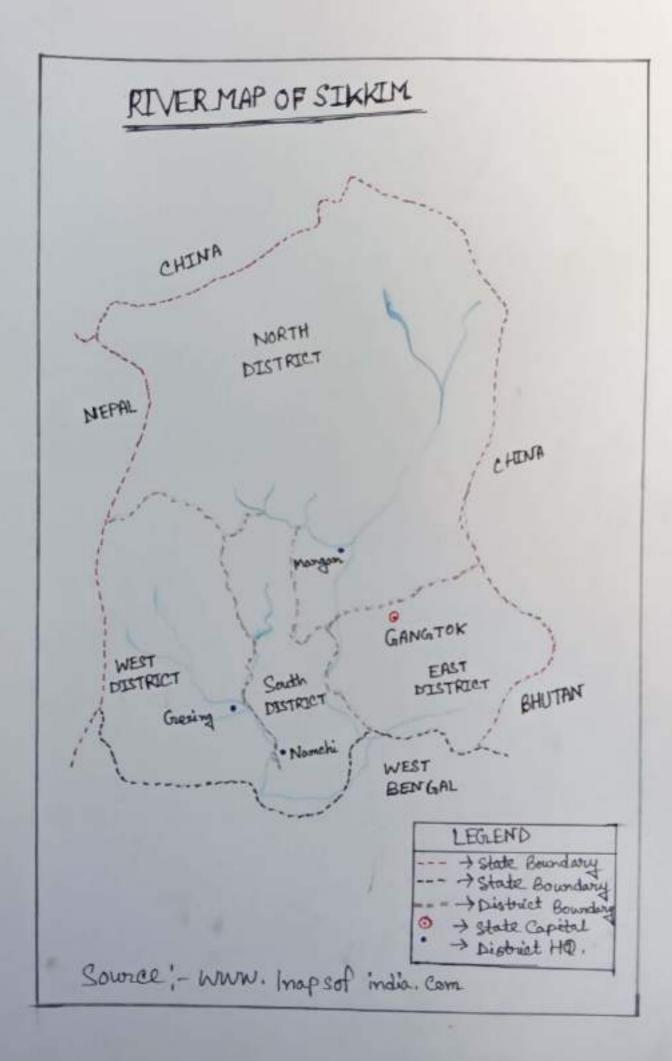
River of Sikkim

Teesta River:

Teesta River is a 414 km (257 mi) long river that rises in the Pauchemrie mountain of eastern Himalayas, flows thorough the Indian states of Sikkim and West Bengal and subsequently enters Bangladersh through Rangpuz Division. In Bongladesh, its falls into Bramhaputra fliver which after meeting some other major rivers of Bengal Delta finally falls in to the Bay of Bengal. It derains on area of 12,540 km² (4,840 squi). In India it flows through Mangan District, Grongtok District, Pakyong District, Cooch Behar Districts, and the cities of Ranges, Jalpaiguri and Mekhligart. In Bangladesh it flows through Lalmonishat District, Rangewa District , Kurigram District and Graibandha District. Teesta is the largest river of Sikkim and second largest river of West Bengal after the Ganges.

	Location	
Country	· India · Bangladesh	
States	· Sikkim, India · West Bengal, India · Rangeur, Bangladesh	
Important Bridges	· Chungtong Teosta Bridge · Sirwani Teosta Bridge	

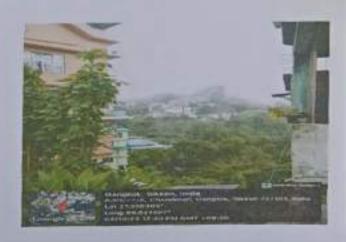
Important Bridges	 Indreni Bridge Rangpo Feesta Bridge Melli Feesta Bridge Teesta Bazzar Bridge Cononation Bridge Sevoke Railway Bridge Joyee Setu Jahpaiguri Feesta Bridge
District's	 Margan District Grangtok District Pakyong District Kalimpong District Cooch Behar District Jalpaiguri District Rangewr District Kwrigram District Lal Monishat District
Physi	cal Characteristics
Source	Pauhunori, Zemu, Grlacier, Gwrudengman Lake
· location	Sikkim, India
· elevation	7,128m (23,386A)
Mouth	Borahmapatra River
· location	Phul ahhari Upazila, Gai bondha, Bangladesh
Length	414km



PHYSICAL PHOTOGRAPHS









CHAPTER-2

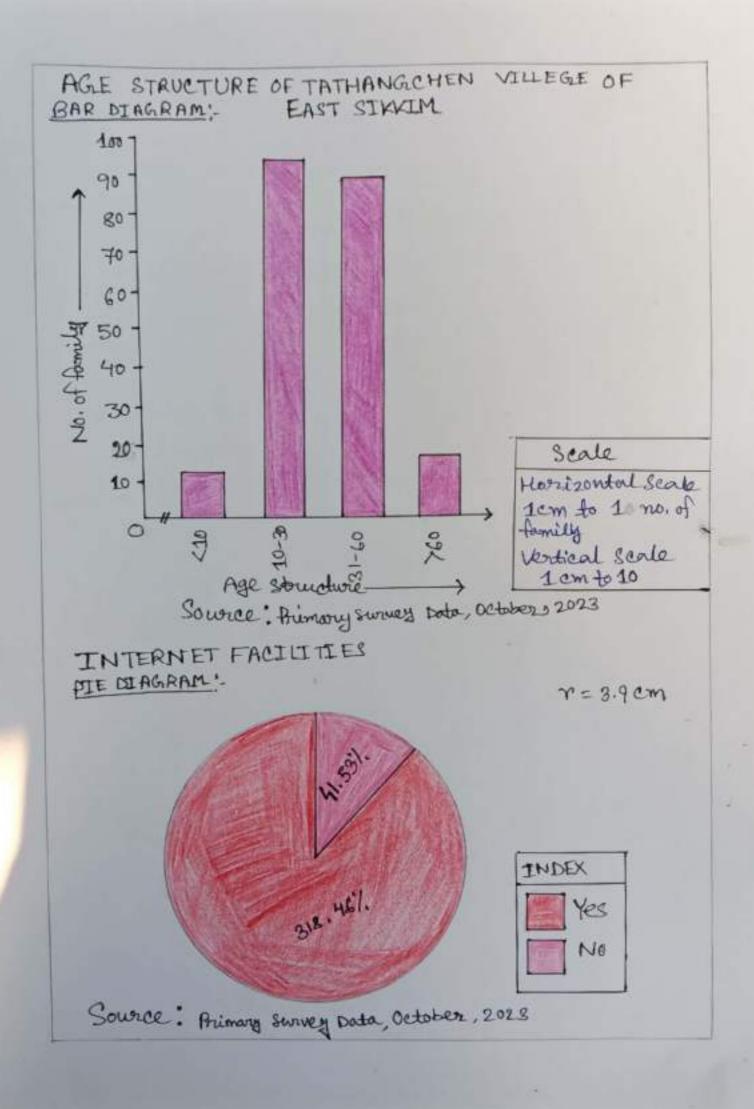
SOCIO-ECONOMIC PROFILE
OF TATHANGCHEN VILLEGE
OF GANGTOK DISTRICT

Economic Brofile:

The economy of Sikkim is mainly based on Agricultural and Animal Husbandary, Apprex, 111, of the total geographical Area is under Agric Culture is of the mixed type and still at the subsistence devel rather than commercial level. The work force Participation nate as per 1991 census is 40,441, The female participation rate in sikkim is also much higher than the national average, Cultivators account for the greater majority of the people in the state. Their percentage is 57.84%. Agaicultural laboures as a whole constitute only 7.81% of the workers in the state. House holds and other industries are negligible, but other worker (Tertiary sector) at the workers level prepresent a good percentage of population. The decreasing gratio of other worker at the state level of economic diversitication. The importance of Agriculture can be judged by the high 1. of Population approx. 65%, engaged in it, Animal husbandary is an entegral port of the household economy of the region. There are certain house held industries also which substatitially adds to house hold incomes, the past one and half

Sikkim is a multi-ethnic state and broadly the population can be divided into Toribal and Non-Tribal groups. As per the 2001 consus of India, the total population of the state is 5,40,851 where as in 1991 it was 4,00,457 only. The Decennial growth in 1981-91 was 28.47 1 whereas for 1991 - 01 it is 32.98%. The overall density of population in the state is 76 Per 59 km. East District is the most population (Population density 257) and North District is least populated (Population density only 10). Sex tratio (Females per thousand Male) in 1991 was 878, where as in 2001 is 875, There are only 8 urban towns and wrban population is 11.10% of total population. Schedule Carste and Schedule Tribe population is 5.93% and 22.36% respectively. North District is tribal District as it has about 55.38%. tribal Population. Literacy rate is 67.68%, higher than the all India overage literacy rate of 65.38%.

Per Capital GrSDP is Rs 23,786=00, Natural Growth rate is 16.90 per thousands, Per Capital outlay on education is Rs. 1288=00, fer capital forest cover is 0.61 ha and the green protection Index is. 0903, highest in the country In the year 2005-06, the per Capital income is Rs 26,851 = 00, leteracy rate is 82%, number of colleges are 11, Number of government Schools are 782, number of religious organizations are 732, Forest cover 45.97%, Number of demestic townism are 2,51; 744, Number of foregin townish over 16,523, Power Production is 165 Mu, People below poverty line are 19.20%, and the Annual State revenue is Rs 228.31 cropes.



Tailet Facility:

This pie diagram is based on Tailet facility of Tathangchen village of Gangtok, Sikkim, India.

Water facility:

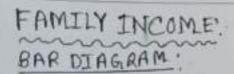
This pie diagram is based on water facility of Tathanchen village of Gangtok, Sikkim, India.

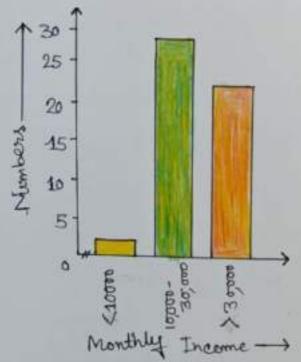
Family Income :-

This Bar diagram is based on Family Income of Tathangcher Willage of Grangtok, Sikkim, India.

Residential Information:

This Bar diagram is based on Residential information of Tathangchen Village of Grangtok, Sikkim, India.



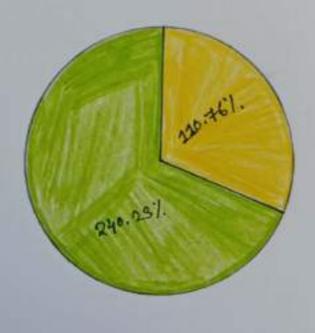


Scale Horizontal Scale 1cm to 1 Vertical Scale 1cm to 5

Source: Primary Swarpy Data, October, 2023

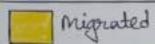
PLE MAGRAM!

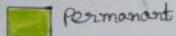
RESIDENTIAL INFORMATION



7 = 3.5 cm

INDEX





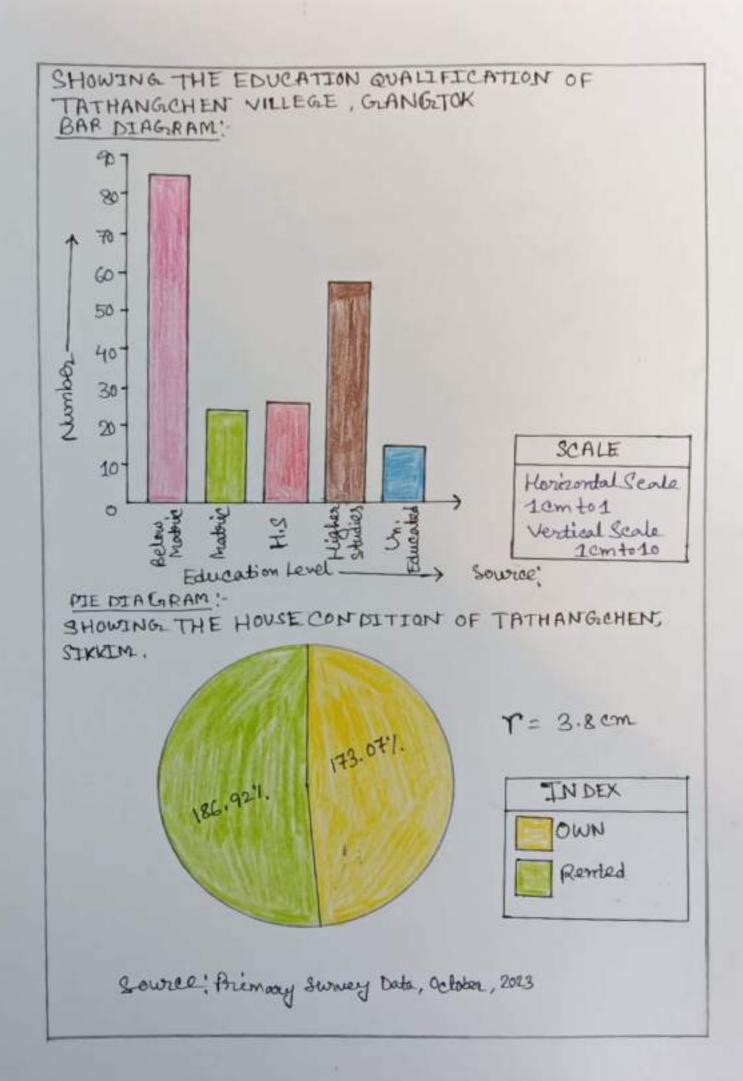
Source: Primary Survey Date, october, 2023

Education Qualification :-

This Bor diagram is based on Education Qualification of Grangtok, Sikkim, India.

House Condition :-

This Pre diagram is based on House Condition of Tathongchen Nillage of Grangtok, Sikkim, India.



No of Rooms:

This Bar diagram is based on no. of swooms information of Tathangehen Village of Grangtok, Sikkim, India.

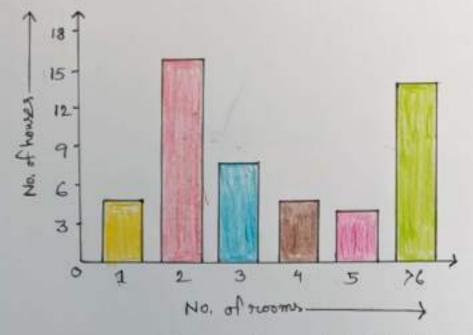
Type of House:

This Bor diagram is based on type of house information of Tathongchen Village of Grangtok, Sikkim, India.

Carte :-

This pie diagram is based on types of Caste of Tathangchen Willage of Grangtok, Sikkim, India.

SHOWING THE NUMBER OF ROOMS OF 52 HOUSES IN GLANGIOK, SIKKIM
BAR DIAGRAM!



SCALE

Horizortal Scale

Icm = 1 bor

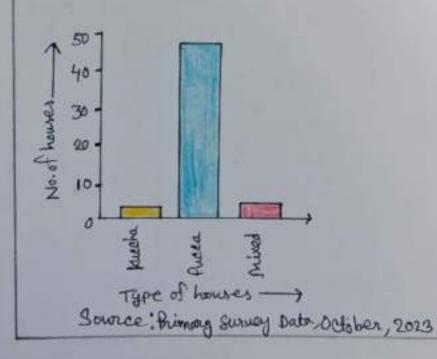
Vertical Scale

Icm = 3 houses

Source: Brimary Stower Data, October, 2023

BAR DIAGRAM !-

SHOWING THE TYPES OF HOUSES OF 52 HOUSES IN GLANGITOK, SIKKIM, INDIA



SCALE

Horizontal Scale

1 cm = 1 type of

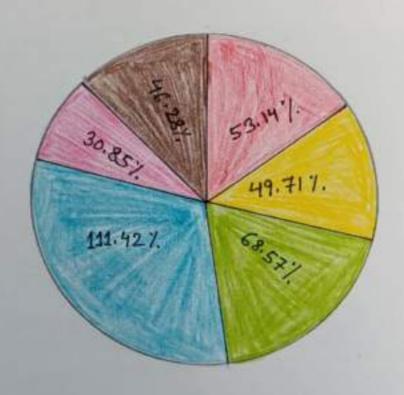
house

vertical Scale

1 cm = 10 houses

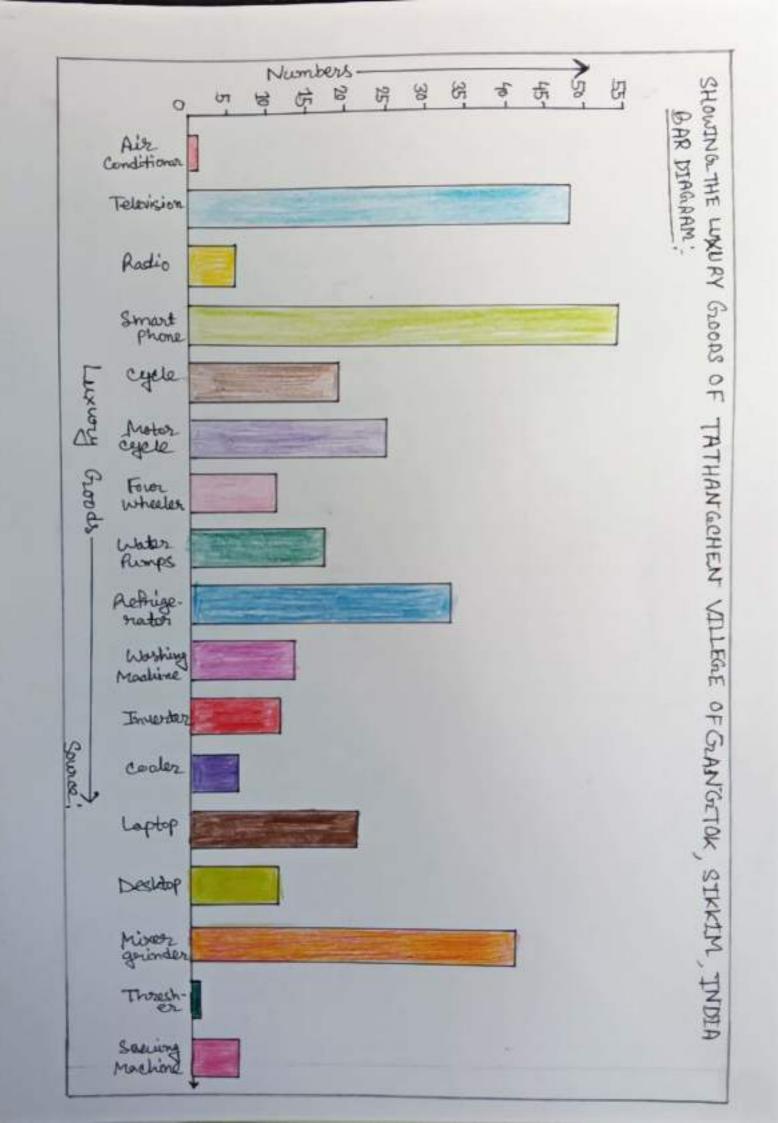
SHOWING THE CASTE SYSTEM OF TATHANGCHEN VILLEGE OF GANGTOK, SIKKIM.
PIEDIAGRAM:

n= 4.4 cm





Source: Brimary Survey Data, October, 2023



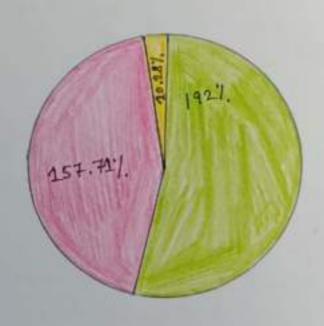
Maritial Status:

Table of Maritial Status of Tothangehen Village of Gangtok

Maritial Status	Tally Marks	No.	Maritial status (indogra
Morried	pertoritori tent tent tent tent tent tent tent ten	112	192°
Un-hoovied	un u	92	157,71'
Dispreed		0	0
Seporaded		0	0
Widow	the I	6	10, 29'
Tatal			360'

SHOWING THE MARITIAL STATUS OF TATHANGCHEN VILLEGE, GANGLTOK, SIKKIML PIE DIAGRAM!

v=3,5cm





Source : Primary Swarey Data October, 2023

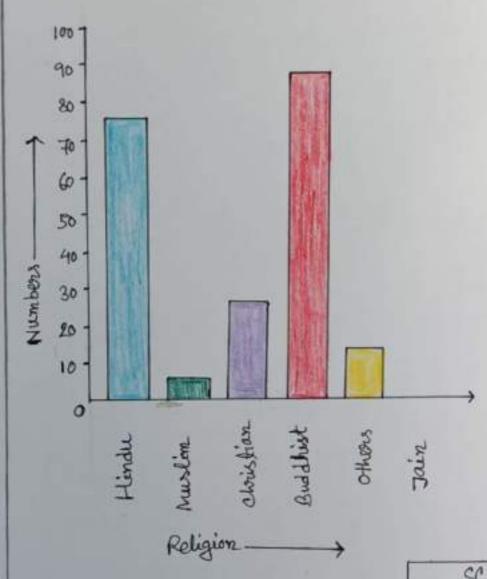
RELIGION:

Hinduism is Majority geligion in Grangtok city with 58.82%, followers. Buddhism is second Most Population religion in Grangtok City with 28.15%, following it. In Grangtok City, Islam is followed by 3.14%. Christianity by 9.07%, Jainism by 0.14%, and Sikkim by 0.16%.

Table of Religion Category of Tathangehen:

Religion Category	Tally Marka	Number	Scale	Number (in cm)
Hindu	Let ter 1 Let ter ter ter ter terter ter ter ter ter terter ter terter ter	76		9,5
Muslim	LH I	G		0.75
jain		0	People	0
Choistian	וואן ואז ואו ואו וואו וואו	27	8 pee	3.4
Buddhist	144 144 144 144 144 144 144 144 144 144	88	1em to 8	11
Otheris	חווות נווו	13	4	1.6
Total		210	1	

Source: Porimary Survey Data, October 2023 SHOWING THE RELIGION OF TATHANGCHEN VILLEGE OF SIKKIM, GLANGSTOK BAR DIAGRAM!



SCALE

Vertical Scale

1 cm = 10 No.

Horizontal Scalo

1 cm = 1 Religion

Source: Primary Survey, odober, 2023

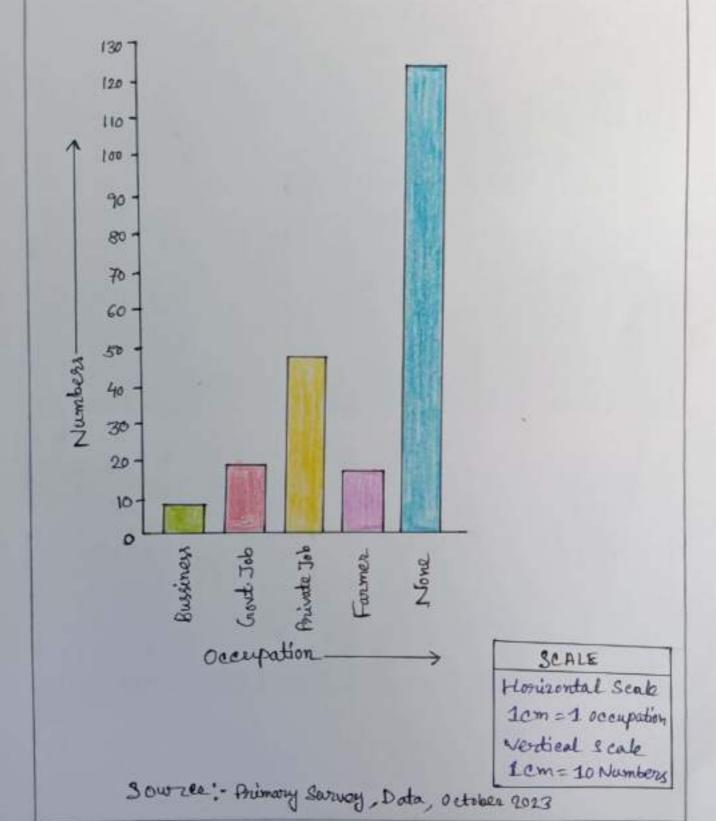
Occupation :-

Crangtok in Sikkim has many such people rengaged in various types of work. Some of them are businessman, some are divers, some are farmers and some are employed in other types of work. Some are bendergovernment jobs and some are under private jobs also there are youths at young age who are not engaged in any work and some woman are included among them. The persons employed in these various works are shown through a table.

Table of Occupation of Tathangchen Village of Grangton'

Occupation	Tally Mooks	10.	Scale	No Cinan)
Bussinen	un n	7		0.7
Crout Job	144 444 141	18	d	1.8
Brivate	444 444 144 144 144 144 144 144 144 144	47	o people	4.7
Farmer	ואו ואו ואו	16	b 40	1.6
None	Let Let Let 11 Let	122	1cm	12.2
Total	District of the last	210		

Source: Primary data, October, 2023 survey SHOWING THE OCCUPATION TYPES OF TATHANGCHEN VILLEGE, GANGTOK, SIKKIM, INDIA BAR DIAGRAM:



SOCTO ECONOMIC PHOTOGRAPS













CHAPTER-3

TRANSPORT AND COMMUNICATION

TRANSPORTATION SYSTEM

A transportation system can be defined as the combination of elements and their interactions, which produce the demand for travel with in a given area and the supply of teransportation services to satisfy this demand. This definition is general and flexible enough to be applied to different contrests. The specific structure of the system is defined by the problem itself (or class of Problems) for whose solution it is employed.

Transport in India refers to the system of moving people, goods and services from one place to another within the country. India with its vast geography and diverse population, relies on various made of towns portation needs of its citizens and support economic activities. These modes include groad transport, orailways, airways, waterways and pipelines.

Transport in Sikkim!

The state of Sikkim is accessible through both airways and groadways. There is however, no direct to ansportation service to Sikkim by railways. Being a very hilly region, the communication services of Sikkim are still at a budding stage but undergoing developments with the best efforts from the governments.

Sikkim Roadways :-

The State of Sikkim is connected by National Highway 31 A which links Siligatic in West Bengal to Grangtok in Sikkim. There core bus and truc Services from by the Sikkim National Transport. There are also privately from bus, Jeep and towrist taxi gervices throughout Sikkim. The state is connected to Tibbet by the Nathula Pass. The highway that links gonttok with Sevoke is National Highway 31 A.

Sikkim Nationalised Townsport;

Regular buses, taxis and cabs are available to make journey to Sikkin and within Sikkim. Sikkim which Mationalised Townsport is one of the origonised services provinalized townsport service, Brivate services are also in sikkim which makes it easier for the townists and visitors to have a km ooth experience here.

Sikkim Railways! -

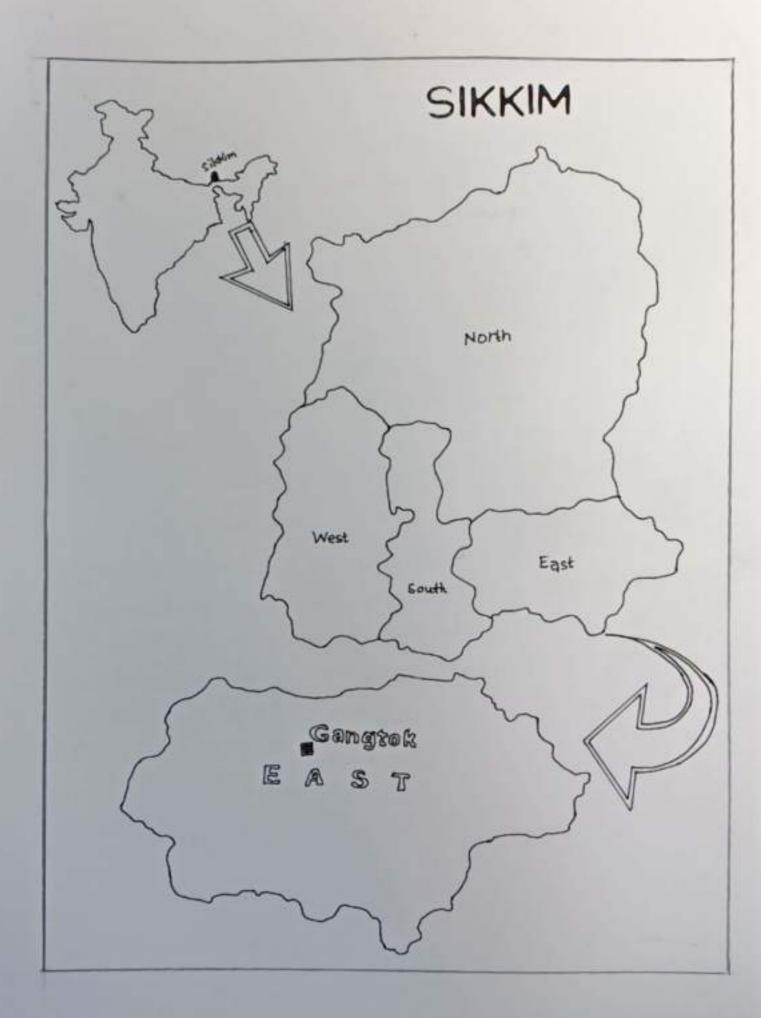
There are no trailway connections and lines in Sikkim. The nearest realway station is located in siligari and New Jalpaignori. New Jalpaignori railway station is located 125 kms away from Grangtok and Siligari is located 114 kms away, However, booking tickets is a trivial affair via online on the Sikkim Nationalized Transport office on all working days.

Sikkim Airways:

airpot because of its though terrain there is however, a helipad in Grangtok which is the only civilian helipad in the state. The closest airpotet to sikiam is in Bagdogra near the towns of siliguri in West Bengal. The Bagdogra airport is located about 124 kms from Grangtok.

for townsport and communication but also for sight seeing purposes. It provides wonderful trips to townish making memories for them to cherish. These helicopters which can accommodate the passengers for a single trip are flown by exports hired.

For India's development and connectivity like! Economic Growth, Acceptibility and connectivity, Employment Generation, Trade and Commerce, Regional Development etc.



Roadways!-Introduction:

Sikkim is a landlocked state and comprises of young and fragile mountains, trivers, store and water springs, thus making it both diverse and vulnerable to natural Catastrophe. The state is bereft of railways and waterways and recently, the decision of spicejet to discontinue its flights from paryong Grosser field Airport untill technical standards are met, makes troadways the only means of fearible townsportation for the state.

Sikkim lies in the seismic Zone word
the gre-occurring seismic movements and heavy
grainfall trigger off landslides and movements
of capsail gresulting in damage of groads
and bridges there by, breaching the
normal lifeline.

Sikkim, a pieturesque Indian state nastied in the eastern Himalayay, boast a unique road network due to its challenging terrain and sturning topography. The road system in sikkim is Primarily composed of theree types of roads!

i) National Highways (NH):

Sikkim is connected to the Frest of India through the National Highway network. NH10, also known as the Grangtok Nathula Road, is a coursel link that connects the capital, Grangtok, to the strategic Nathula Park on the Grangtok, to the strategic Nathula Park on the India - China bonder. This highway plays a Significant rule in trade and townism.

2) State Highways (SH):

that facilitate infra-state towns and cities these reads connectivity. These reads connect various towns and cities within Sikkim, enabling towns portation of within Sikkim, enabling towns portation of goods, public commuting, and fromoting towns in the region.

3> fevral Roads:

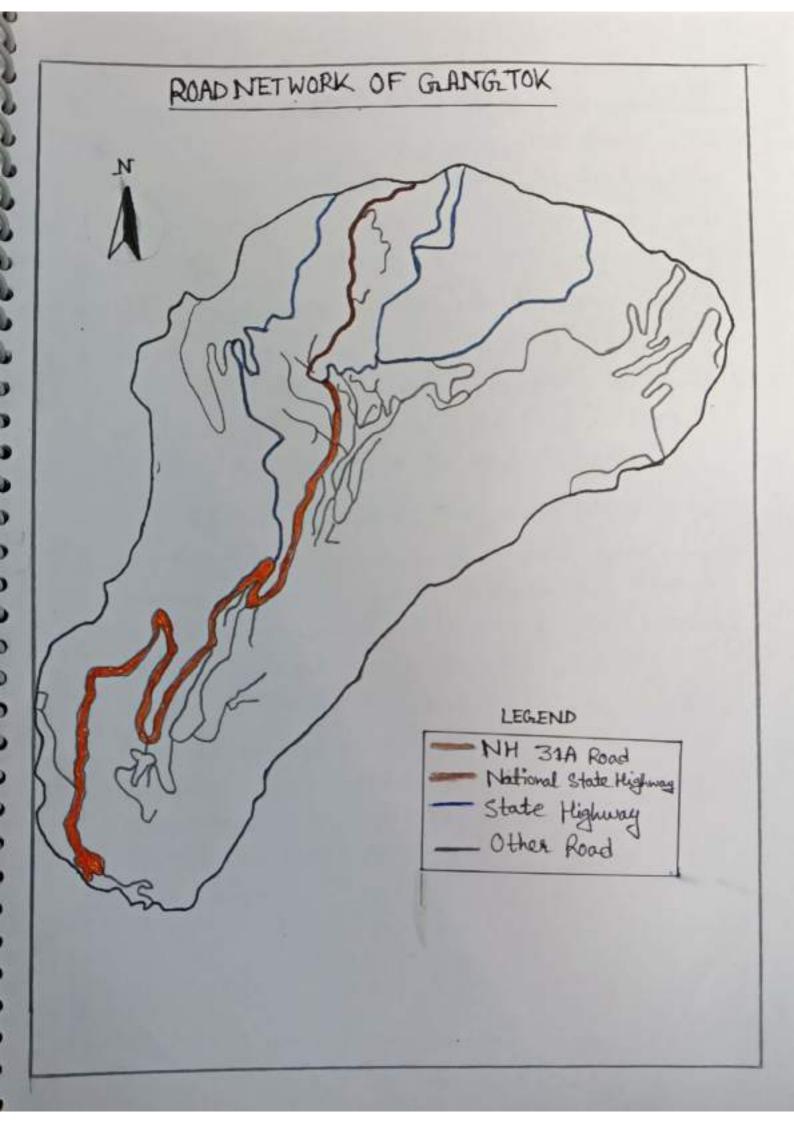
Sikkim's neval read network is vital for Connecting gremote villages and hamlets with towns and cities. These reads are essential for transporlation of agricultural Bruduce, access to healthcare and education, and fastering socio-economic development in Reveal areas.

Challenges and Features;

Sikkin's challenging terorain, charaterised by steep stopes and rouged mountain's poses a significant obstacle in groad construction and maintain ance. Landslider and frequent scainfall during the monsoon season often damage the modways, requiring continious repairs and maintainence effords.

taking views of the Himalayan peaks, making ita popular destination for adventure townism and nature enthusiants,

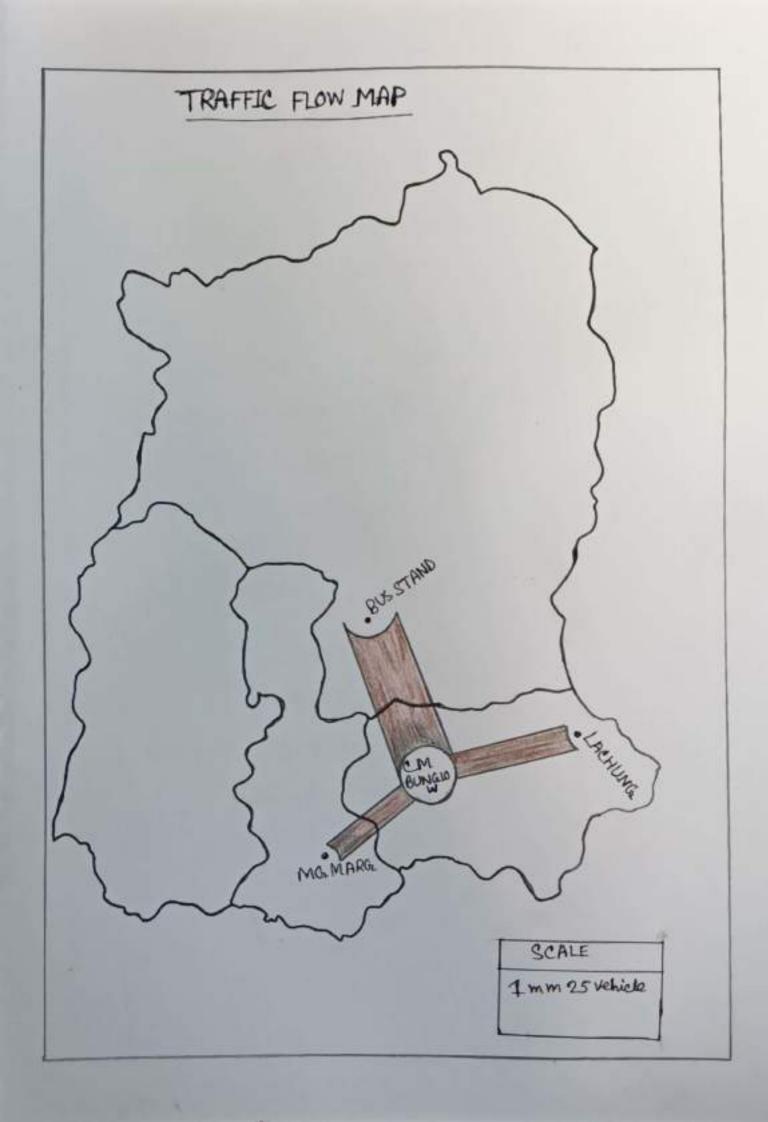
Sikkim has made strides in read infrastructure development in recent years infrastructure development in recent years aiming to improve connectivity and accessibility. The formate economic growth and townism. In Summary, Sikkim's read network is a critical Summary, Sikkim's read network is a critical lifeline, overcoming geographical challenges lifeline, overcoming geographical challenges to connect the state internally and link it to the rest of India, enabling economic growth and enhancing the state's natural beauty.



Grangtok, the capital of Sikkim, is characterically by a network of troads that toraverse the Picturesque Himalayan terrain. The road system frimarily consists of winding mountain roads, some of which offer sturning parcoramic views of the supronding valleys and peaks. The major orteries include National Highways 10 (NH10) that connects Grangtok to Siligaria and beyond, serving as a lifeline for the region's connectivity to the rest of Sondia.

Within Ganglok, the groad network is a Mik of main thorough for es and novorower lanes, often meandering through the hilly landscape. Mr Mary, the bustling Central street, is a popular pedestrain-friendly area, flanked by slope eateries, and vibrant markets-other notable reads include Tibet groads, which is a frominent commercial hub, and NH 10A leading to Nothur La Pass, an important border point with china.

Due to the challenging to pography, maintaing and expanding the road infrastructure is an ongoing effort to improve accessibility, traffic flows, and safety. Landstides and adverse weather conditions can pose significant challenges to road maintainence and necessitate centinious upgrades and repairs. Overall, Grangtok's road network plays a vital role in sustaing towns, torade, and slaily life for the residents of this exchanting Himalayan city.



Criven the number of road is = 3 volume of Circle = 360'

Therefore each bor pairs will be at 360' = 120' interval

50,

Toward Nathula = 120.

Toward Bustand = 240'

Toward MGz Market = 360'

Radious of Circle is

TT 72 = 3368

72 = 3368 = 1072.06

~ = J1072.00

= 32.74

Suppose, 1cm represent 10 cm on tradious

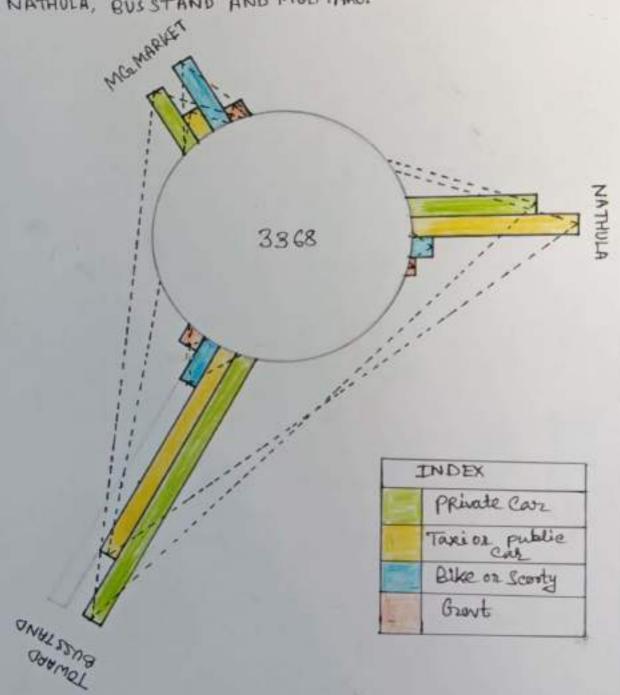
. Radious of Circle = 32.74

= 3.274

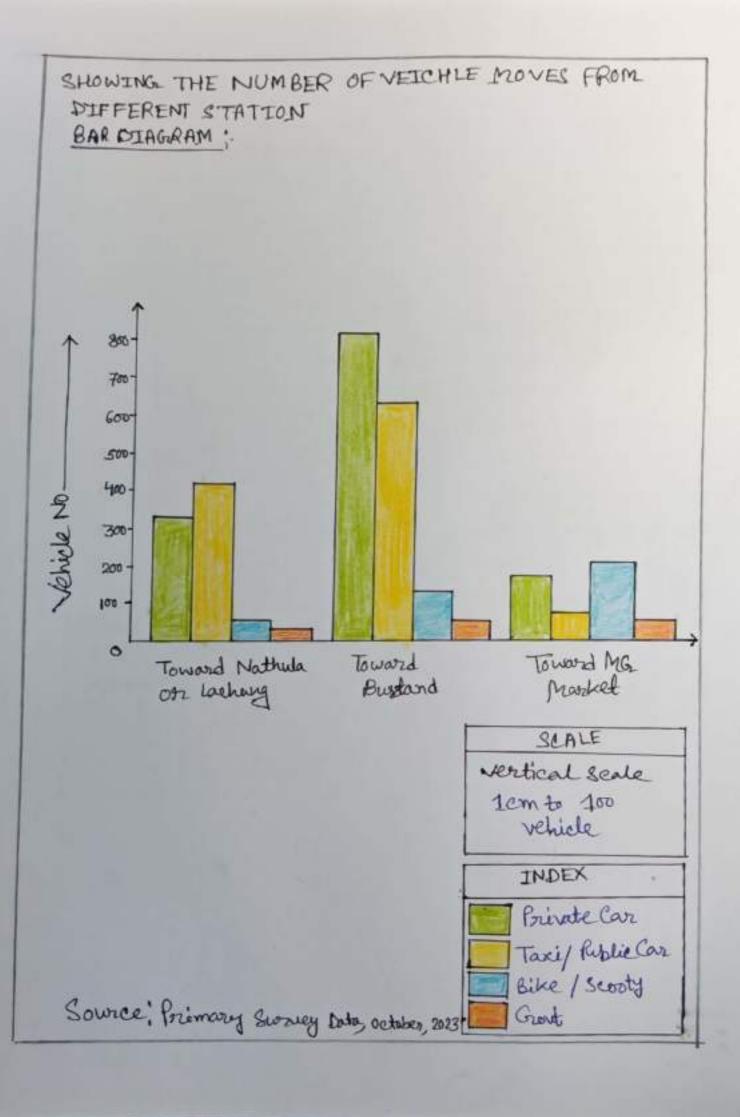
R.ad Name	Type of Vehicle	No of vehicle	Scale	Baraccording to the scale
Toward Nathula Or Lachung	Private car	329		3.29
	Taxa / Public Car	418		4.18
	Bike/Scooty	62		0.62
	Grovt	29		0-29
Toward Bus stand	Private cor	810	6	8.10
	Taxi/AblicCar	628	2	6.28
	Bike/Scorty	131	100	1.31
	Grout	51	am	0.51
Toward M.Gz Market	Private Car	1 66	4	1.60
	Taxi/Public Car	66		0.66
	Bike/scooty	196		1.96
	Govt	54		0.54

STAR DIAGRAM

SHOWING THE MULTIPLE BAR DIAGRAM OF TOWARD NATHULA, BUSSTAND AND MGMARG

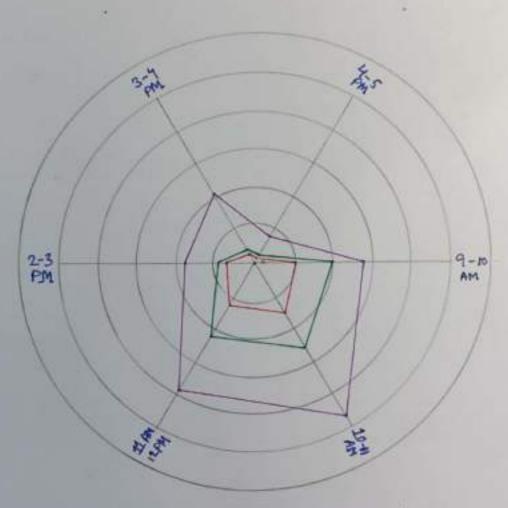


Scale; 1cm to 100 vehicle



Road Nome	Time	vehicle	Seale	
Toward Nathula	9-10	198		1.98
	10-11	263		2.63
	11 am-12 Pm	221		2.21
Lachung		90		0.9
7	3-4	44		0.44
	4-5	22		0.22
Tay no. 1	9-10	280		2.80
loward Burdand	10-11	477		4.7
	11am -	389	g	3.89
	2-3	1.84	4 700	1.84
	3-4	2.07		2.07
	4-5	83	5	0.83
To an J	9-10	99	4	0.99
Toward M. Oz Murket	10-11	149		1.49
	11-12	120		1.20
	2-3	70		0.70
	3-4	26		0.26
	4-5	18		0.18

STAR DIAGRAM SHOWING THE NUMBER OF VEICHLE MOVES FROM CM BUNGLOW CHOWK (GANGITOK) TO DIFFERENT STATION



	INDEX
1	Toward Bus
1	Toward Nathala
1	M.G. Market Road

geale 1 cm to 100 unit

TRANSPORT AND COMMUNICATION









CHAPTER- 4

CONCLUSION

CONCLUSTON .

Problem

- 1 Townism impact: Overwhelming townism may fear to eminormental degradation, affecting the Local ecosystem and cultural harritage.
- 2 Development Imbalance! Uneven development may occur with certain areas benefiting more from townism related activities while others face neglact.
- 3 Environmental Concerns! Increased townist footfall may contribute to waste generation, Population and strain on natural resources in the pelling area.

Suggestion

- 2 Sustainable Towism Bractices; Implement and promote sustainable townism provides to minimize the environmental impact and Breserve the local ecosystem.
- 2 Waste Management: Establish effective weste management systems to handle the influx of townists.



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NAME OF TAXABLE PARTY.

Department of Geography

This is to certify that ARGH	A GHOSH
Roll 2116247	No. 2189030 and
Registration No. 091523	of 2021-22 of B.Sc. Hons
	in Geography under Kalyani University has
completed his/ her project	work on Socio-Economic
Structure of Tathangeho	en Area of Ganglok District of Sikkim
under our supervision and guidance.	

He/she is permitted to submit the same as partial fulfillment of B.Sc. Hons Semester - V Examination 2024 in Geography (SEC/ Practical) paper .C.C. / P. ... 11

Santi Mandal Signature

Head of the Department of Geography
Dr. SAKTI MANDAL
Head, Assistant Professor
Department of Geography
Sripat Singh College, Jiaganj

Ajay Debnath

Signature

Field Supervisors

Outcome Report: Geographical Excursion

Date of Excursion: 2nd to 7th October 2023,

Location: Namchi Village, Sikkim

Participants: 35

Organized By: Department of Geography,

Name of Field Supervisor: Dr. Ajoy Debnath and Mr. Biswajit Chowdhury

Introduction:

The geographical excursion to Namchi Village, Sikkim was organized as part of the academic curriculum for the Honors students of Semester- V (Hons) in the Geography Department. The aim of this excursion was to provide students with practical exposure to geographical features and processes, supplementing their theoretical understanding.

Learning Objectives Achieved:

During the excursion, students were able to achieve the following key objectives:

1. Observation of Geographical Features:

Students had the opportunity to observe mountain ranges, rivers, coastal areas, soil types, etc., which helped them understand concepts related to geomorphology, hydrology, etc.. This hands-on observation solidified their understanding of the formation and impact of these features.

2. Practical Data Collection:

Students conducted various field activities, including Socio-economic data and soil sampling, topographical mapping, climate measurement, etc.. This allowed them to learn how to collect and analyze data in a real-world context, a vital skill for geographical research.

3. Interaction with Local Communities:

Students interacted with local communities to understand the relationship between human activities and the environment. This included understanding how geographical features impact agriculture, industry, and daily life in the region.

4. Environmental Awareness:

The excursion heightened students' awareness of environmental issues such as deforestation, soil

erosion, climate change, etc.. The exposure to real-world environmental challenges reinforced the

importance of sustainable development and environmental management.

5. Group Collaboration and Problem Solving:

Working in groups, students collaborated on field assignments and data analysis. They also

encountered unexpected challenges, such as weather conditions or navigation issues, which helped

them develop problem-solving and teamwork skills.

6. Impact on Academic Learning:

This excursion directly contributed to the students' understanding of topics covered in their

coursework. Concepts such as [specific geographical concepts like erosion, tectonic activity, or

human-environment interaction] were experienced first-hand, making them easier to comprehend

and retain.

Conclusion:

The geographical excursion to Namchi Village, Sikkim was a successful and enriching experience

for the students. It bridged the gap between theoretical study and practical application, enhancing

both academic learning and personal development. We recommend continuing such excursions for

future batches, as they play a crucial role in a holistic geographical education.

Recommendations:

• More frequent field trips should be organized to diverse locations to cover a broader range

of geographical phenomena.

• Future excursions could include more interdisciplinary approaches, involving

collaboration with students from environmental science or sociology departments to widen

perspectives.

Dr. SAKTI MANDAL

Santi Mandal

Head, Assistant Professor Department of Geography

Sripat Singh College, Jiaganj