

# **Disaster Management Plan 2023-24**

# **An Initiative of IQAC**

**Prepared by:** 

- 1. Prof. Lavli Rana
- 2. Prof. Rajender Singh
- 3. Prof. Pankaj Kumar



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#### **Chapter-I**

#### Introduction

Hamirpur is the headquarters of Hamirpur district in the Indian state of Himachal Pradesh. It is also a major junction on National Highway 3 while National Highway 103 starts at here. Hamirpur is famous for its high literacy rate, educational institutions and traditional festival of Hamir Utsav. Hamirpur City is spread from Jhaniari to Bhota along NH 3 and NH 103 and is a prominent commercial centre for the district. It is connected to the National Capital with regular HRTC Volvo and ordinary buses. The nearest airport is Kangra Airport and Mohali International Airport while the nearest railway is in Una at 79 km.

The exact geographical co-ordinates of Hamirpur is 31.68°N 76.52°E, and the average elevation is 799 M. The highest point in Hamirpur is 1250m Awah Devi peak. Hamirpur City is surrounded by Pine tree forests. Hamirpur experiences Short Warm summers from late April to June when temperature may go up to 40 °C, and cool winters from mid October to April having as low as 7 °C. Monsoon season starts in late June and lasts till early September with fair amount of rainfall. It snowed in some parts of the district in January 2012 and February 2019 respectively. It lays beneath the irregular pattern hills Of Lower Western Himalayas and southern Shivalik Ranges.

NSCBM Govt. College Hamirpur has entered into the 6th decade of its glorious journey after its inception in 1965. In the last 5 decades college and striving to be an institution of excellence. This institution has progressively emerged as one of the leading institution of higher learning in Himachal Pradesh with its sole motto of transformation of the students into awakened, responsible and accountable citizen. The college started with the name of Govt. College, Hamirpur and then in 1995 Netaji Subhash Chander Bose has been prefixed to the name of this college. The college is located in the hilly terrain of district Head quarter of Hamirpur. It is covered under 2(f) and 12(B) by the UGC. The college has been re-accredited with 'B' Grade (CGPA 2.83) by NAAC in 2015.

The college offers different undergraduate programmes in Humanities, Science (Med. & Non Med., Computer Science) and Commerce and post Graduate courses in English Hindi, Commerce and Economics. The college also runs self financing courses in BBA BCA and PGDCA and Add-on-courses in Tourism & Travel Management, Journalism and Computer Application. The highly qualified faculty of the college is imparting value based quality education in various fields.

The campus of the college is spread over nearly 22 acres of land with a standard playground for all major outdoor games. The college provides facilities for indoor games along with a gymnasium for exercise. The college has well equipped labs for different science streams including computer labs with internet facilities. Different departments are connected with VPN Broadband & Lease Line facilities. The new college library is also connected through Library Management Software 'SOUL' developed by INFLIBNET. The new stadium of the college with 400mtr synthetic track is also available in the college. The construction of the modern indoor stadium, with budgetary provision of Rs.572.01 lacs, is in progress. The seven residential quarter (Type -IV) and Four (Type-II) has been newly constructed There are separate hostels for boys and girls with each having capacity of 100 students.

# **Details of NSCBM Govt. Degree College, Hamirpur**

- Name of College and code number provided by Department of Education. Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur ,C- 11275
- 2. Postal address with pin code. Netaji Subhash Chander Bose Memorial Govt. College, Hamirpur HP-177005
- 3. Contac number—01972-222227
- 4. Number of Teacher : Male 49, Female 26
- 5. Number of Students : Male 1739, Female 2655
- 6. Number of differentially able students: Male...Nil....female...Nil.....
- 7. Specify the type of disability---
- 8. Date of Construction of college buildings Admn. Block 1965 ,PTA- Block -2001,Science Block-2002, Commerce Block-1965
- 9. Number of buildings in the College compound-5
- 10. Number of Classrooms 41
  - Number of Chemistry Laboratory---5
  - Number of Physics Laboratory---5
  - Number of Biology Laboratory---6
- 11. Number of floors -1,2,4,4,4
- 12. Number of Staircase 5
- 13. Does College have a kitchen? Yes/No-No, Canteen -yes

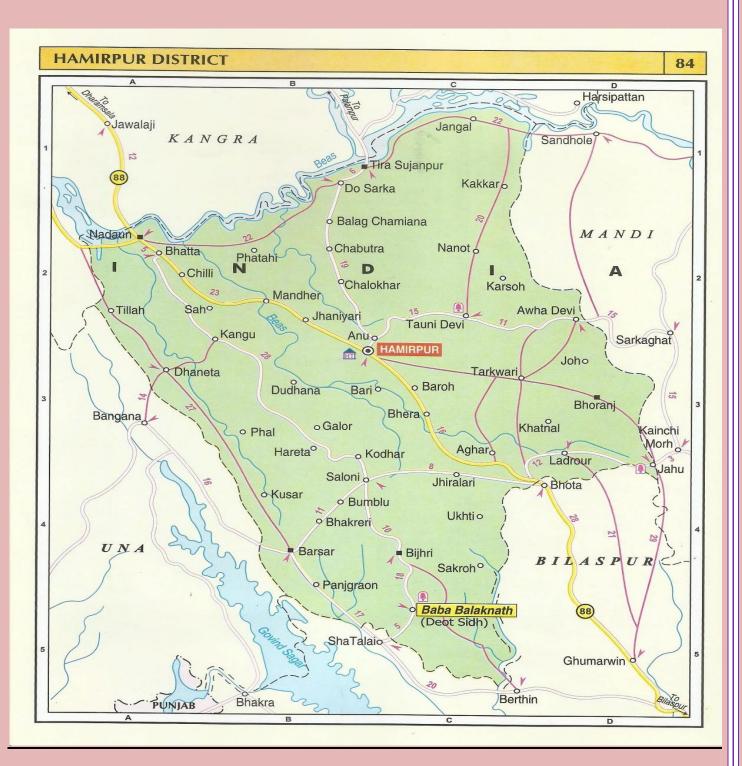
If yes do you have gas stove or open fire kitchen or use cooking gas connection- Yes, with NSS

- 14. Do college has separate toilets for Boys -Yes, Girls-Yes
- 15. Number of drinking water points-2
- 16. Playground size and open are-120 X 80 Mtrs
- 17. Fire extinguisher installed--- Yes
  - If yes number of fire extinguisher—15
- 18. Number of Sand Buckets installed—2
- 19. Evacuation drill organized—Yes/No—Yes

If yes, last date when drill conducted and number of student who participated-

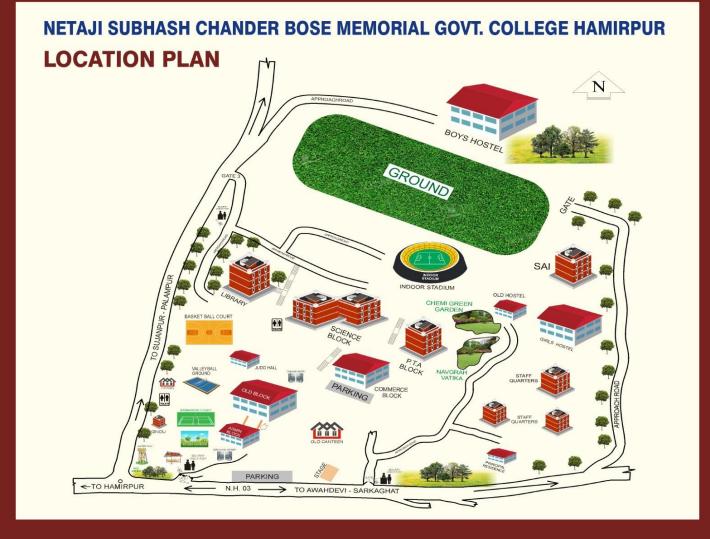
#### First Mock Drill Date-Feb-2017, Total Students Participated-400 Last Mock Drill Date-07-11-2023, Total Students Participated-450

# **Guide Map of District Hamirpur**



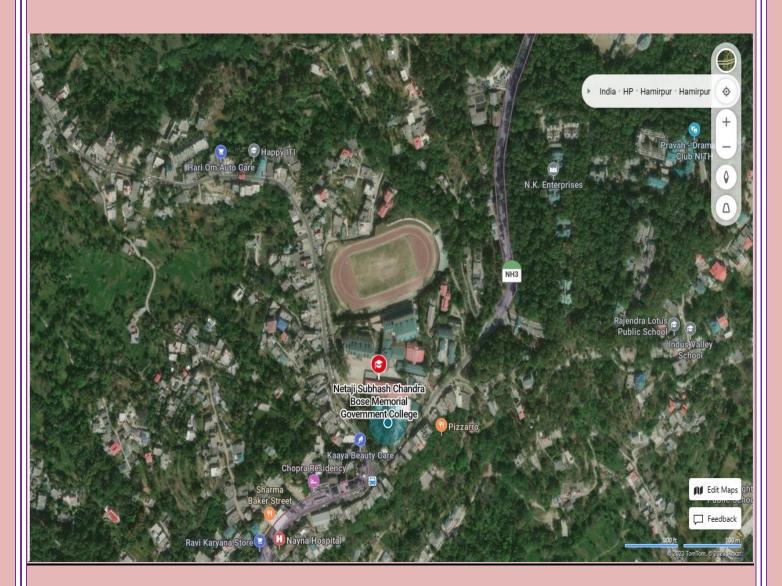
Map-1

# Guide Map of NSCBM Govt. Degree College, Hamirpur



Map-2

# Satellite View of NSCBM Govt. Degree College, Hamirpur



Map-3

## **Meaning of Disaster Management**

A disaster refers to catastrophe, mishap, calamity for grave occurrence from natural or man-made causes, which is beyond the coping capacity of the affected community. Disaster Management involves a continuous and integrated process of planning, organizing, coordinating and implementing measures which are necessary or expedient for:

- Prevention of danger or threat of any disaster.
- Mitigation or reduction of risk of any disaster or its severity or consequences.
- Capacity building including research and knowledge management.
- Preparedness to deal with any disaster.
- Prompt response to any threatening disaster situation or disaster.
- Assessing the severity or magnitude of effects of any disaster.
- Evacuation, rescue and relief.
- Rehabilitation and reconstruction.

#### **Objectives of Disaster Management in NSCBM Govt. College, Hamirpur**

- As the college falls in the High Intensity Earth Quake Zone and High speed winds / localized thunderstorm can affect the life and property of the college therefore the plan focuses on pre disaster, during disaster and post disaster steps to be taken in case a disaster occurs.
- In case of any fire break out due to internal and external electrical or other causes, the plan focuses on pre disaster and practical steps to be taken during disaster and after disaster.
- As the college is located on a busy road and has two main gates college Disaster Management plans focuses on to take adequate measures to avoid road Accident.
- Some measures to deal with the biological disaster like Covid-19 has also been included
- To plan adequate steps to be taken before during and after; if any disaster occurs.

## Chapter-2

#### Hazard Risk and Vulnerability Assessment

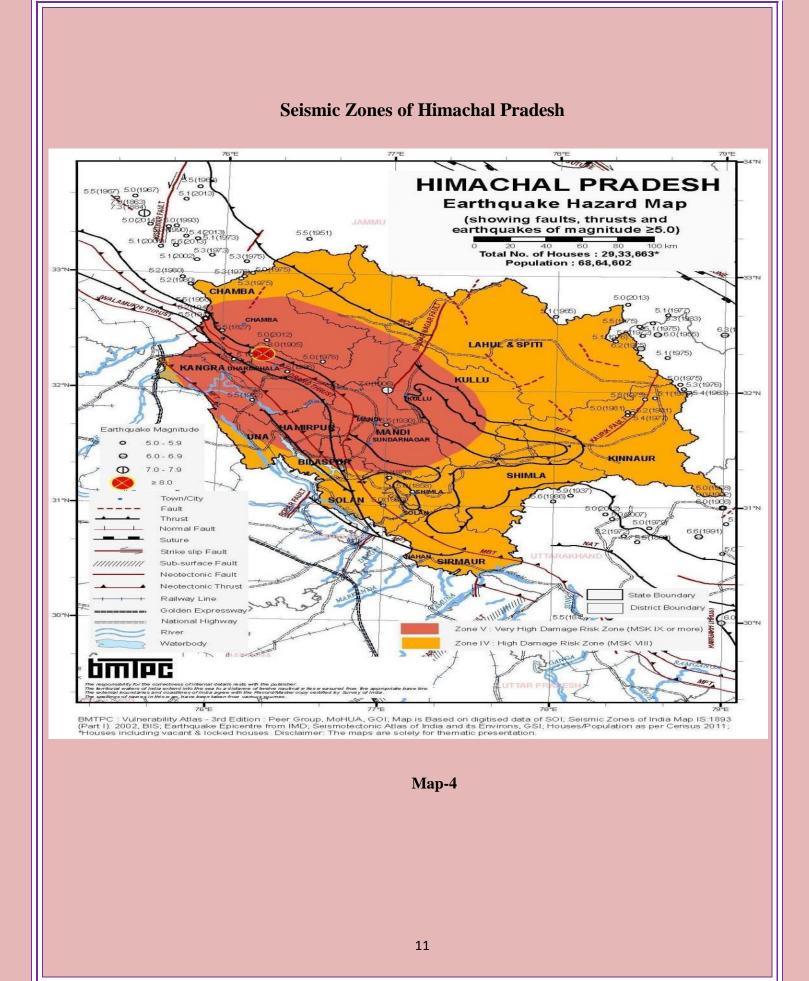
#### Hazard Risks in the College:

- 1. Earthquake
- 2. High Intensity Winds & Localized Thunderstorm
- 3. Flood
- 4. Road accident
- 5. Stampede in case of any emergency
- 6. Fire/chemical accident
- 7. Biological disaster like Covid-19

#### Earthquake

The state of Himachal Pradesh lies almost entirely in the Himalayan Mountains. Due to its location it weathers dozens of mild earthquakes every year. Large earthquakes have occurred in all parts of Himachal Pradesh, **the biggest being the Kangra Earthquake of 1905**. The Himalayan Frontal Thrust, the Main boundary Thrust, the Krol, the Giri, Jutogh and Nahan thrusts lie in this region. Besides that there are scores of smaller faults, like the Kaurik Fault which triggered the 1975 earthquake. However, it must be stated that proximity to faults does not necessarily translate into a higher hazard as compared to areas located further away, as damage from earthquakes depends on numerous factors such as subsurface geology as well as adherence to the building codes.

Chamba, Kullu, Kangra, Una, Hamirpur, Mandi, and Bilaspur Districts lie in Zone V. The remaining districts of Lahual and Spiti, Kinnaur, Shimla, Solan and Sirmaur lie in **Zone IV**. Since the earthquake data base in India is still incomplete, especially with regards to earthquakes prior to the historical period (before 1800A.D.), these zones offer a rough guide of the earthquake hazard in any particular region and need to be regularly updated.



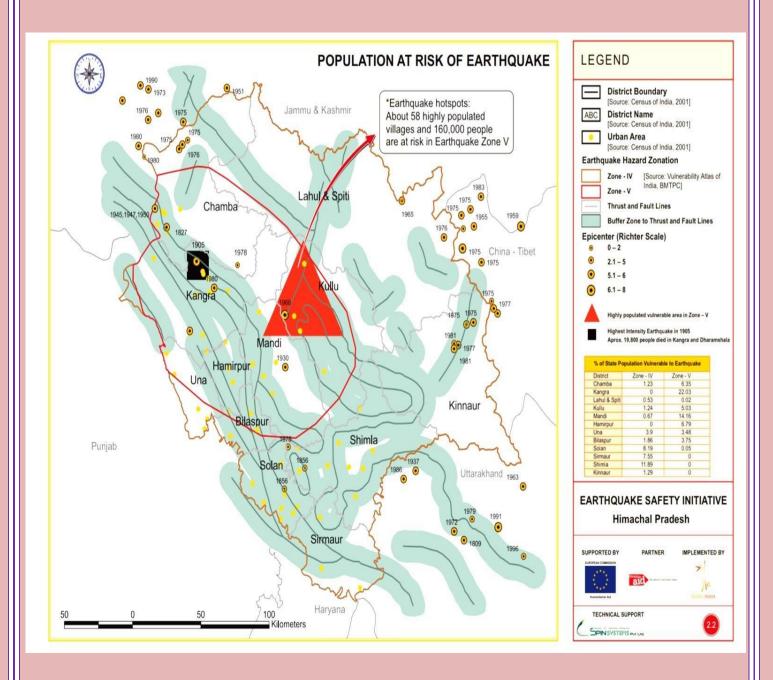
# High-Intensity Zones

		ligh damage r	isk seismic zone V	Zone	Intensity
<ul> <li>and high-risk damage zone IV.</li> <li>Seismic zone V   Chamba, Kullu, Kangra, Una, Hamirpur, Mandi, Bilaspur</li> <li>Seismic zone IV   Shimla, Kinnaur, Lahaul Spiti, Sirmaur</li> </ul>				Zone V	Very High Risk Zone Area liable to shaking Intensity IX (and above)
Area in destructive (IX) & damage (VIII) zones Under MSK (Medvedev-Sponheuer-Karnik) earthquake intensity scale					High Risk Zone Intensity VIII
District	Zo	Zone IX Zone VIII 7			Moderate Risk
Kangra	9	98%	1%		Zone Intensity V
Mandi	ç	97%	3%	Zone II	Low Risk Zone VI (and lower)
Hamirpur	<u>c</u>	91%	9%		
Chamba	(	53%	37%		
Kullu	5	53%	47%		
Una		37%	63%		
Bilaspur	2	25%	75%		
Solan	2	.4%	98%		
Lahaul-Spiti		1%	99%		
Kinnaur	1	00%	-		
Shimla	1	00%	-		
Sirmaur	1	00%			
STRONGE	ST HP Q	UAKES			
Place	Year	Magnitud	e Deaths		
Kangra	1905	7.8	20k		
Chamba	1945	6.5	0		
Kinnaur	1975	6.8	60		
Dharamshala	1986	5.5	6		
Chamba	1994	4.5	0		
Chamba	1995	4.9	0		
Sundernagar	1997	5	0		

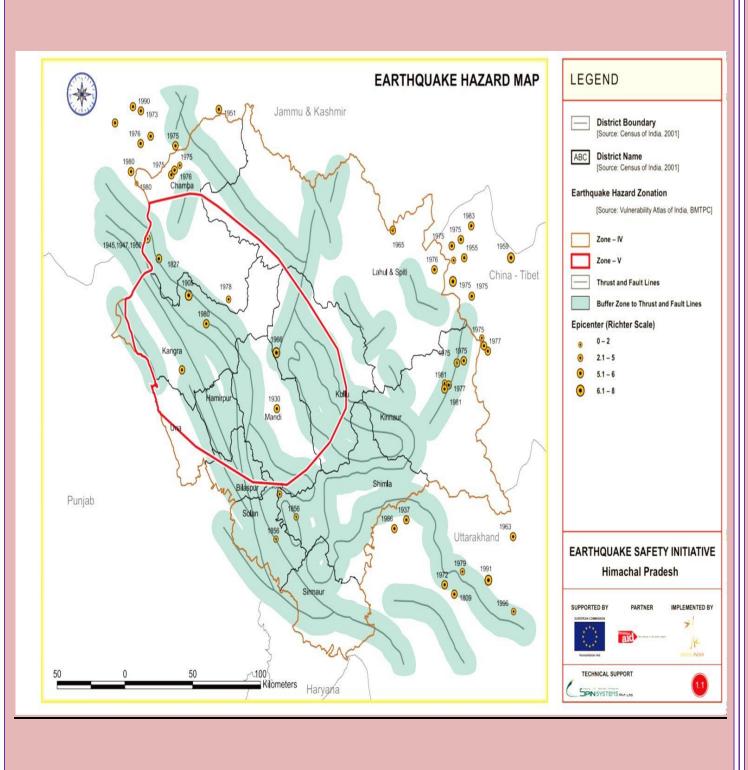
### Largest Instrumented Earthquake in Himachal Pradesh

- 4 April -1905 Kangra (Himachal Pradesh), Mw7.8. At least 28,000 people were killed in the Kangra-Dharamsala region of Himachal Pradesh. Damage and casualties also occurred in adjoining parts of Punjab including in the cities of Amritsar, Lahore, Jalandhar, Ludhiana and Sialkot.
- 28 February-1906-Near Kullu (Himachal Pradesh), Mw6.4. Damage and casualties in the Bushahr-Shimla hill states.
- > **11 May -1930** East of Sultanpur (Himachal Pradesh), 6.0(TS).
- 22 June-1945-Near Padua, Kathwa District, J&K(H.P.-J&K Border region), 6.0 (TS).
- 10 July-1947-Near Padua, Kathwad District, J&K (H.P.-J&K Border region), 6.0 (TS)
- 12 September-1951-Chamba-Udhampur Districts (H.P.--J&K Border region), 6.0 (TS).
- 17 June-1955-Lahual-Spiti District (Himachal Pradesh), 6.0 (TS)
- 19 January-1975- Dutung, Himachal Pradesh (Indo-China Border region), Ms 6.8(NEIC). This earthquake struck in the early afternoon. It registered 6.2on the Richter scale. It caused havoc in parts of the Kinnaur, Lahaul and Spiti regions of India. 60 people were killed in this sparsely populated region.

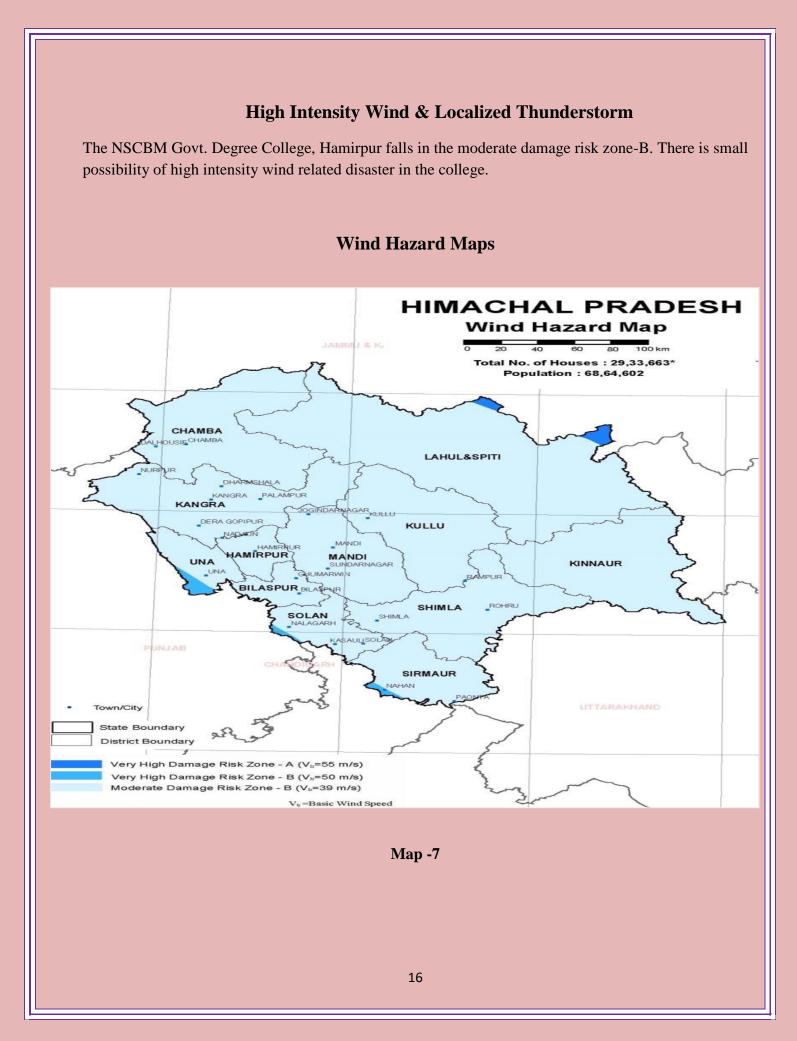
# Earthquake Hazard Maps

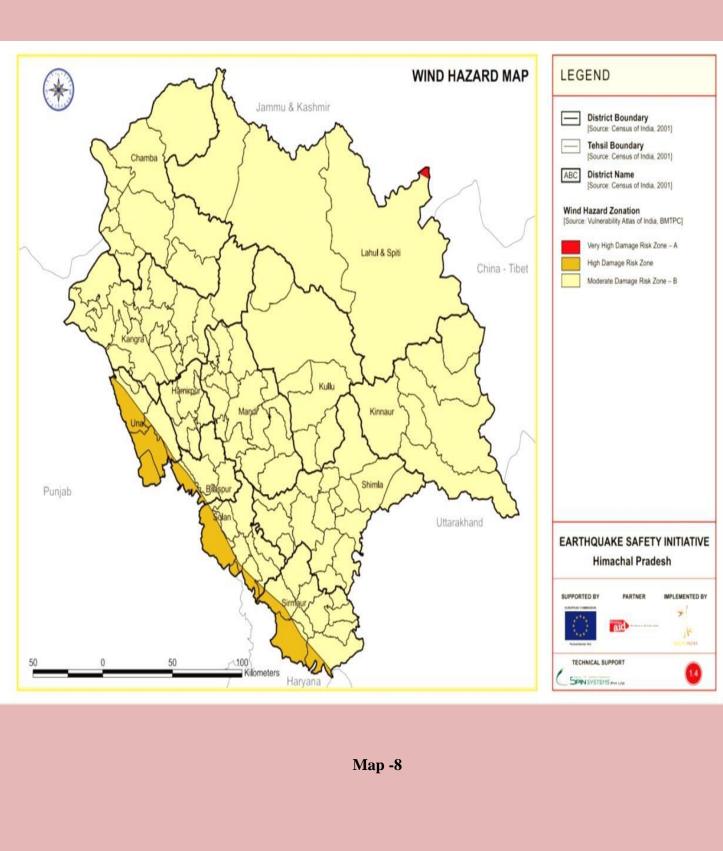


Map -5

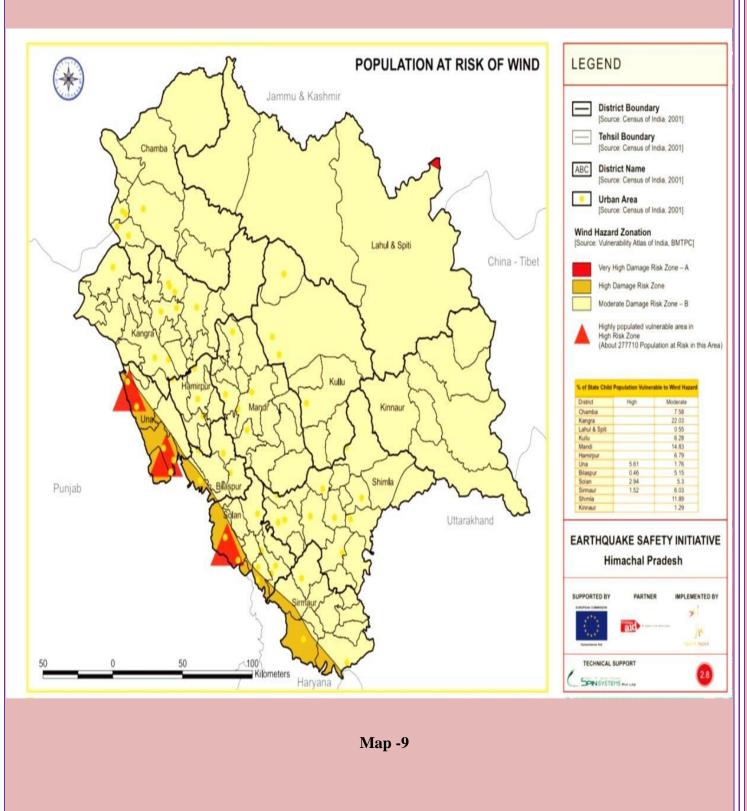








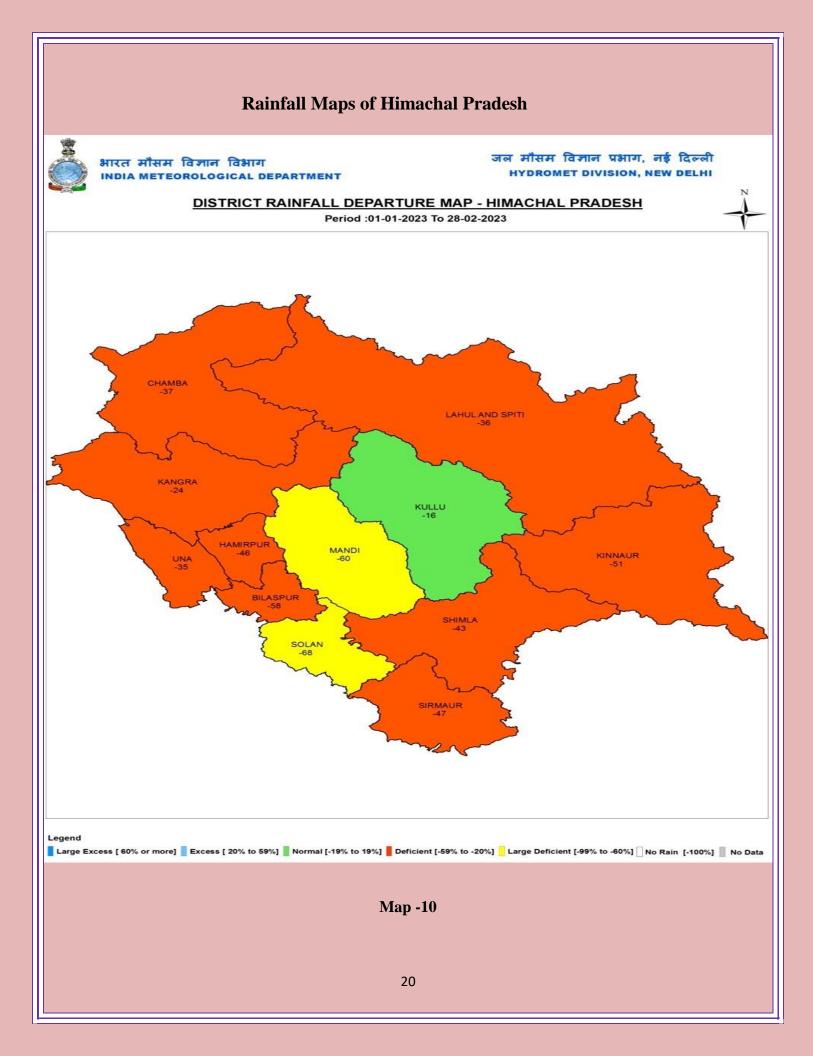


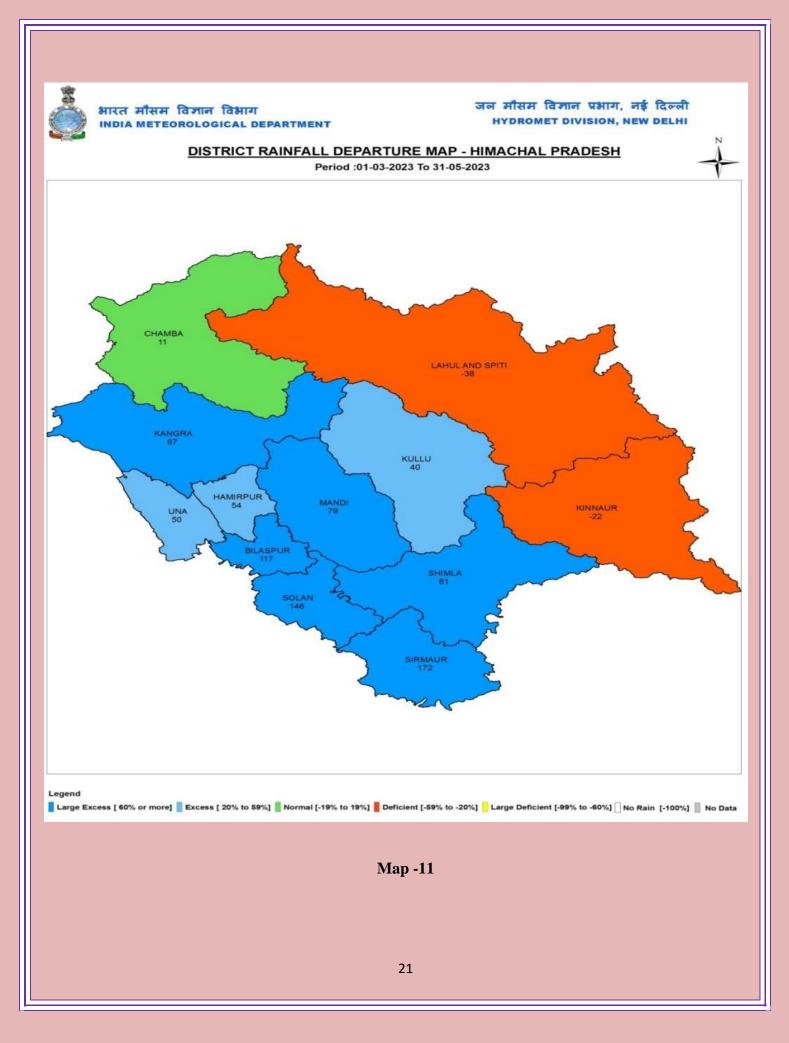


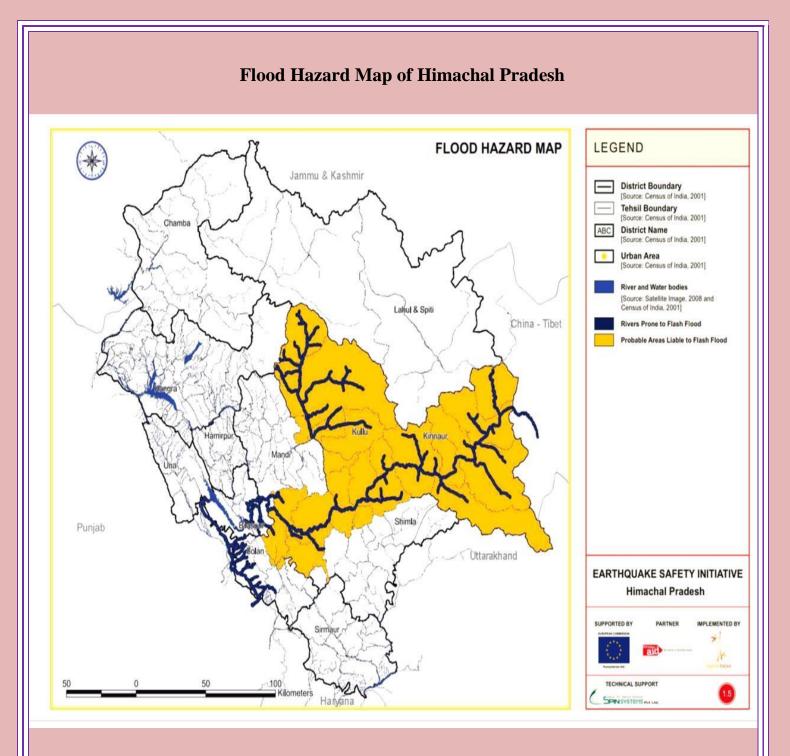
#### Flood

# **Rainfall in Himachal Pradesh:**

- > The average annual rainfall is **1,251(mm)**.
- The rainy season start at the end of month of June. The landscape lushes green and fresh.
  During this seasonal streams and natural springs are replenished.
- The heavy rains in July and August cause erosion, floods, and landslides. Of all the state districts, Dharamshala receive the highest rainfall, nearly about 3400 mm.
- Spiti is the driest area of the state (rain fall below 50mm).







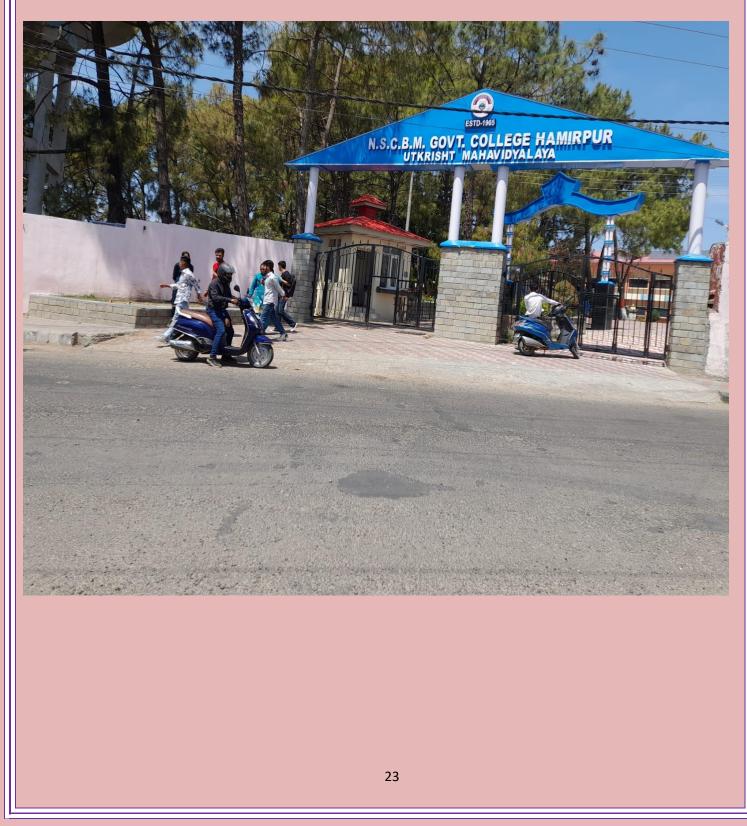


Beas River is the only river passing close to the boundary of Hamirpur district. As the college is situated nearly 25Km from the river so there is no chance of flash flood due to river. Also there is no nullah or rivulet near the college so the chances of flood are rare.

# **Road Accident**

As the college is located on a busy road so there is always a chance of road accident.

# Location of College on a Busy Road



# **Stampede in Case of Any Emergency**

The CV Raman block and Kargil Bhawan of the college have huge rush of students and also they have limited ways to exit so there is a possibility of stampede in these buildings.

## **Fire/Chemical Accident**

The college campus has large number of pine trees, so in summer there is possibility of fire in pine leaves. The Generator has been installed near to Principal office so it may prove dangerous in case of fire breakout. Also, Due to electrical short circuit there is possibility of fire breakout in the college.

Large amount of chemicals are stored in the Chemistry Store room so there is also a possibility of Chemical accident in Chemistry labs.

# **Biological Disaster like Covid-19**

A Covid -19 like pandemic possibility is always there in the future.

# Chapter-3

# **Preparedness & Evacuation Plan**

## **Disaster Management Committees**

To face any kind of disaster and to minimize the loss of life and property the college has constituted following committees.

College Disaster Management Core Committee			
Name	Designation	Contact No	
Dr. Pramod S Patial	Principal	9418021622	
Dr. Chandan Bhardwaj	Associate Professor	9459710746	
Prof. Vijay Kaundal	Associate Professor	9418115452	
Dr. Vijay kumar Thakur	Associate Professor	9418062157	
Prof. Neelam Kumari	Associate Professor	9418150635	
Smt. Sunita Saini	Librarian	9418262142	
Dr. Ratan Chand	Prof. Incharge R& R	7018491408	
Prof. Uttam Sharma	Prof. Incharge NSS	9816088957	
Prof. Saurabh Sood	Prof. Incharge NCC	9418306771	
	Fire Officer	1972222533	
	SHO Police Station Hamirpur	1972293331	
	Chief Medical Officer Hamirpur	197222223	
All the Students of NSS, NCC, R & R will be member of this team			
Awareness Generation & Warning & Information Dissemination			
Committee			
Sh.Prakash Thakur	Associate Professor	9418337766	
Dr. Sangeeta Singh	Associate Professor	9418156735	
Dr. Ratan Chand Sharma	Prof. Incharge R & R	7018491408	
Prof. Uttam Sharma	Prof. Incharge NSS	9816088957	
Prof. Saurabh Sood	Prof. Incharge NCC	9418306771	
Prof. Lavli Rana	Assistant Professor	8894312816	
Dr.Kanika Kaondal	Assistant Professor	9530032389	
Prof. Chandresh	Assistant Professor	9857606029	
All the Students of NSS, NCC, R& R will be member of this team			
Search and Evacuation Team			
Dr.Sanjay Kango	Associate Professor	9418158892	
Dr. Ratan Chand Sharma	Prof. Incharge R& R	7018491408	
Prof. Uttam Sharma	Prof. Incharge NSS	9816088957	
Prof. Saurabh Sood	Prof. Incharge NCC	9418306771	
Prof. Lavli Rana	Assistant Professor	8894312816	
Prof.Prashant Sharma	Assistant Professor	7018228937	
Prof.Amit Sharma	Assistant Professor	7018709695	
Prof. Pankaj Kumar	Assistant Professor	9625768044	
	NameDr. Pramod S PatialDr. Chandan BhardwajProf. Vijay KaundalDr. Vijay kumar ThakurProf. Neelam KumariSmt. Sunita SainiDr. Ratan ChandProf. Uttam SharmaProf. Uttam SharmaProf. Saurabh SoodAll the Students of NSS, NoAwareness Generation of CommitteeSh.Prakash ThakurDr. Sangeeta SinghDr. Ratan Chand SharmaProf. Uttam SharmaProf. Uttam SharmaProf. Uttam SharmaProf. Uttam SharmaProf. Lavli RanaDr.Kanika KaondalProf. ChandreshAll the Students of NSS,Search and EvacuationDr. Sanjay KangoDr. Ratan Chand SharmaProf. Uttam SharmaProf. Uttam SharmaProf. ChandreshAll the Students of NSS,Search and EvacuationDr.Sanjay KangoDr. Ratan Chand SharmaProf. Uttam SharmaProf. Uttam SharmaProf. Lavli RanaProf. Lavli RanaProf. Lavli RanaProf. Prashant SharmaProf. Prof. Lavli RanaProf. Prof. Lavli RanaProf. Prof. SharmaProf. Prof. Sharma	NameDesignationDr. Pramod S PatialPrincipalDr. Chandan BhardwajAssociate ProfessorProf. Vijay KaundalAssociate ProfessorDr. Vijay kumar ThakurAssociate ProfessorDr. Vijay kumar ThakurAssociate ProfessorProf. Neelam KumariAssociate ProfessorSmt. Sunita SainiLibrarianDr. Ratan ChandProf. Incharge R& RProf. Uttam SharmaProf. Incharge NSSProf. Saurabh SoodProf. Incharge NCCFire OfficerSHO Police Station HamirpurChief Medical Officer HamirpurAll the Students of NSS, NCC , R & R will be member of this teatAwareness Generation & Warning & Information DisserCommitteeSh.Prakash ThakurAssociate ProfessorDr. Sangeeta SinghAssociate ProfessorDr. Sangeeta SinghAssociate ProfessorDr. Lavli RanaAssistant ProfessorDr. Lavli RanaAssistant ProfessorProf. Lavli RanaAssociate ProfessorAll the Students of NSS, NCC , R& R will be member of thiSearch and Evacuation TeamDr. Sanjay KangoAssociate ProfessorDr. Ratan Chand SharmaProf. Incharge R& RProf. Uttam SharmaProf. Incharge R& RProf. Uttam SharmaProf. Incharge R& RProf. ChandreshAssistant ProfessorAll the Students of NSS, NCC , R& R will be member of thiSearch and Evacuation TeamDr. Sanjay KangoAssociate ProfessorProf. Saurabh SoodProf. Incharge RSProf. Uttam Sha	

				<b>5</b> 010000017
9	Dr. Sandesh Kumari	Assistant Professor		7018898816
10	Prof. Bhanu Priya	Assistant Professor		9418345234
11	Sh. Chander Suman	Office Supdt.		70189-33397
12	Sh.Shiv Kumar	Clerk		70188-04126
13		NCC, R & R will be men	mber of	this team
D	Fire Safety Team	T		
1	Dr. Dinesh Sharma	Assistant Professor		9418194881
2	Prof. Neeraj Sharma	Assistant Professor		7018865834
3	Prof. Rajinder Singh	Assistant Professor		9418452454
4	Prof.Sanjay Kumar	Assistant Professor		9817535894
5	Prof. Anjna Kumari	Assistant Professor		9459811524
6	Prof. Neena Kumari	Assistant Professor		9418554654
7	Prof. Shilpa Soni	Assistant Professor		7018877106
8	Smt. Ranjana	Clerk		94590-10876
9	Mr. Tez Ram	Peon	Peon	
10		Fire Officer Hamirpur		197222533
11	All the Students of NSS, NCC, R & R will be member of this team			
E	First Aid Team			
1	Dr. Sandeep Kumar	Assistant Professor 94183290		29037
2	Prof. Pawan Kumar	Assistant Professor 94185743		74352
3	Dr.Vinay Kumar	Assistant Professor 94181029		02977
4	Dr.Nirmal Singh	Assistant Professor 98054026		02686
5	Prof. Shilpa Thakur	Assistant Professor 78148185		18524
6	Dr. Sandesh	Assistant Professor 70188988		98816
7	Prof. Madhuri Gupta	Assistant Professor 94180562		56213
8		Medical Officer 19722222		22223
9	Sh. Chander Suman	Office Supdt. 70189-333		-33397
10	Sh. Rajender Kumar	SLA 70184-728		-72827
11	Smt. Maya Devi	Peon 94186-563		-56327
12	All the Students of NSS, NCC, R & R will be member of this team			
F	Site Security Team			
1	Dr. Shashi Sharma	Associate Professor 9418		418096506
2	Smt. Alpna Sharma			418045789
3	Sh.Rajesh Kumar			418090945
4	Sh. Suresh Kumar			459164866
5	Dr. ND Khanna			459165388
6	Dr. Rohit Sandal			816998056
7	Sh. Vijay Kumar			4183-19163
8	Sh. Vinod Kumar			4189-47087
9		NCC, R & R will be men		

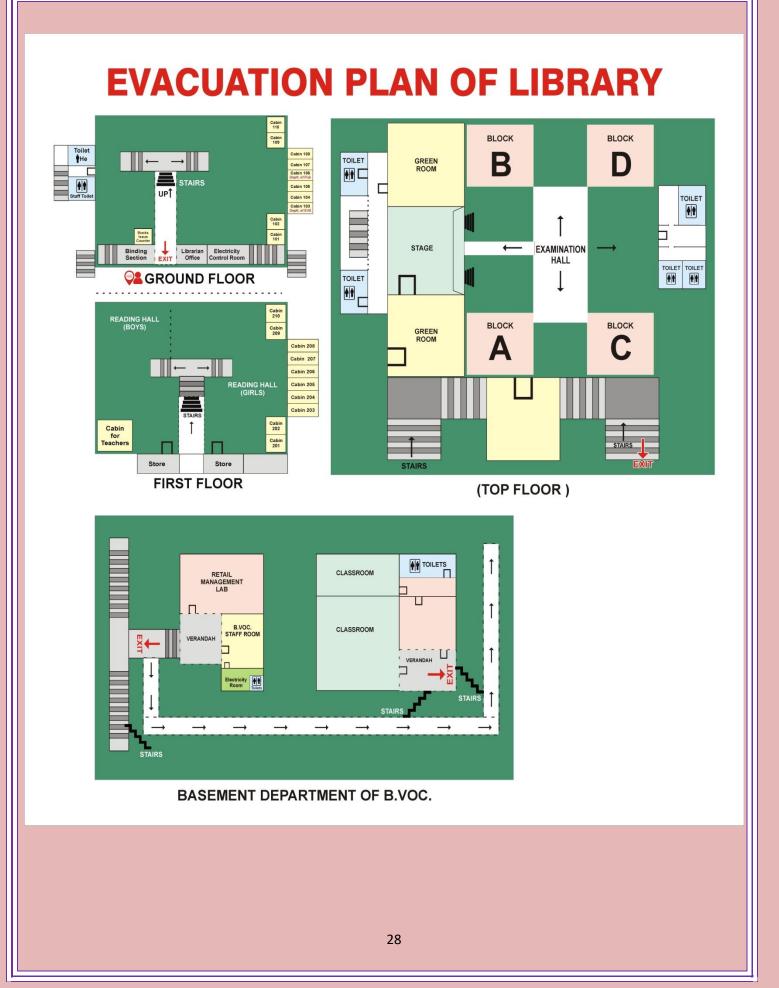
# **Resource Inventory of the college**

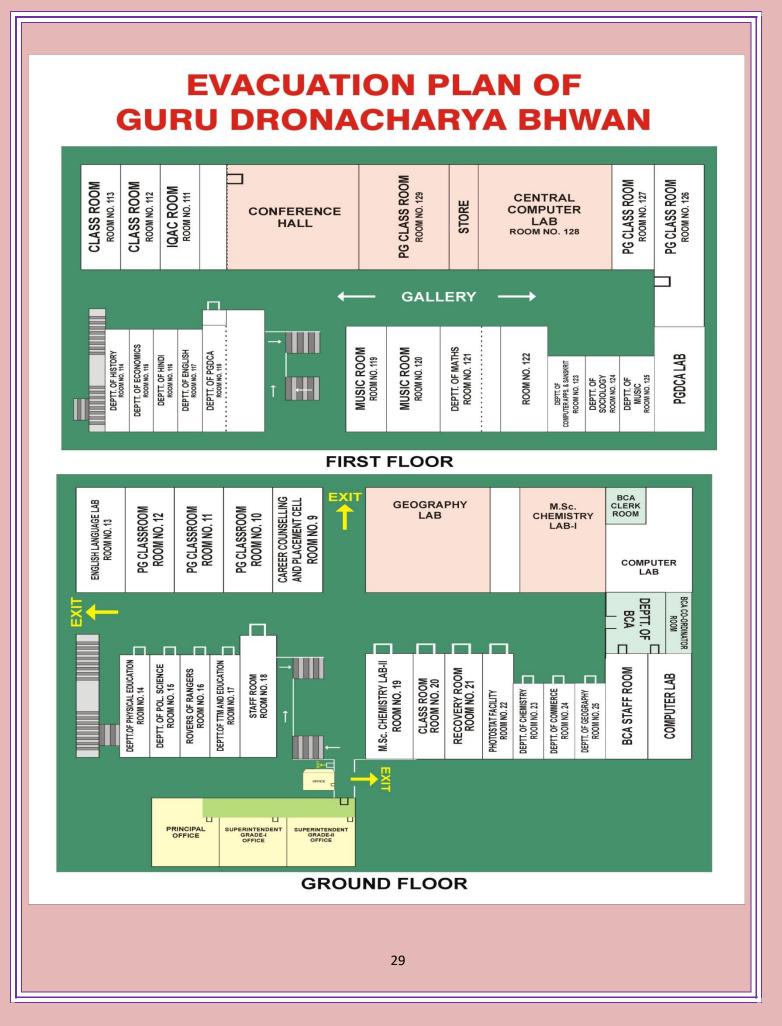
As part of Disaster Management Plan the college intends to buy following items:

Items	Available	To be purchased
Stretcher	02	05
Ladders	02	04
Thick ropes	02	05
Torch	02	04
First-aid-box	02	04
Temporary Shelter /Tents and Tarpaulins)	Nil	02
Fire Extinguishers	24	10
Alert Alarm	Nil	01
Wheel Chairs	01	02
Reflectors	Nil	02

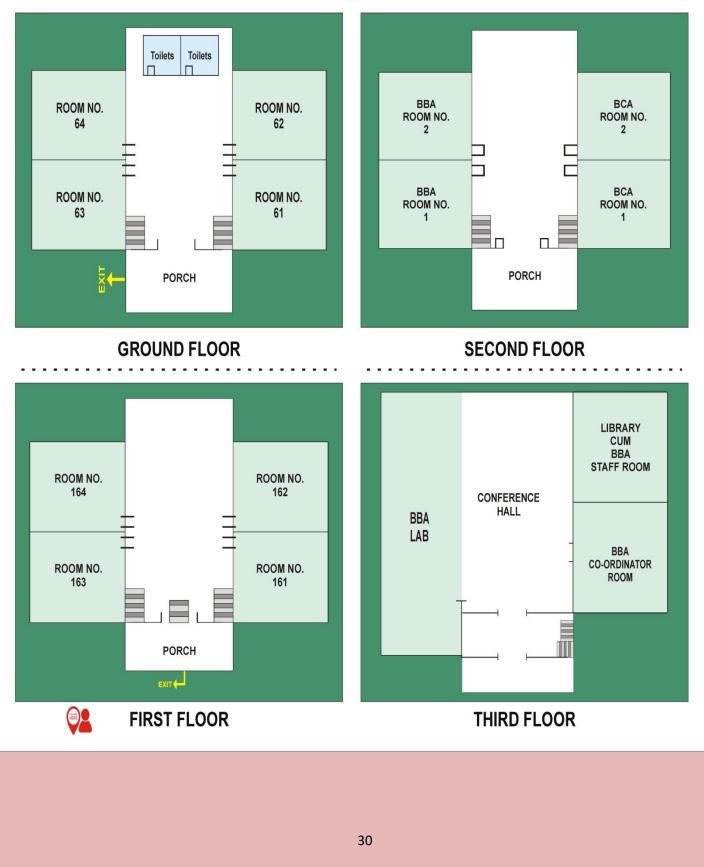
# **Evacuation Plan of NSCBM Govt. College, Hamirpur**

Detailed map (Plan) showing all the rooms, labs and washrooms, staircase and exit points has been displayed in each building of the college.





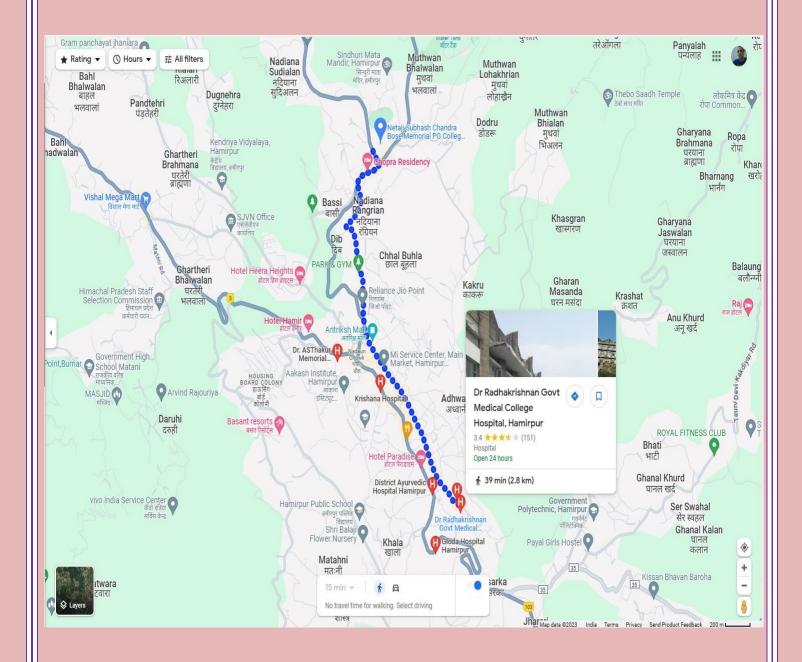
# **EVACUATION PLAN OF KARGIL BHAWAN**

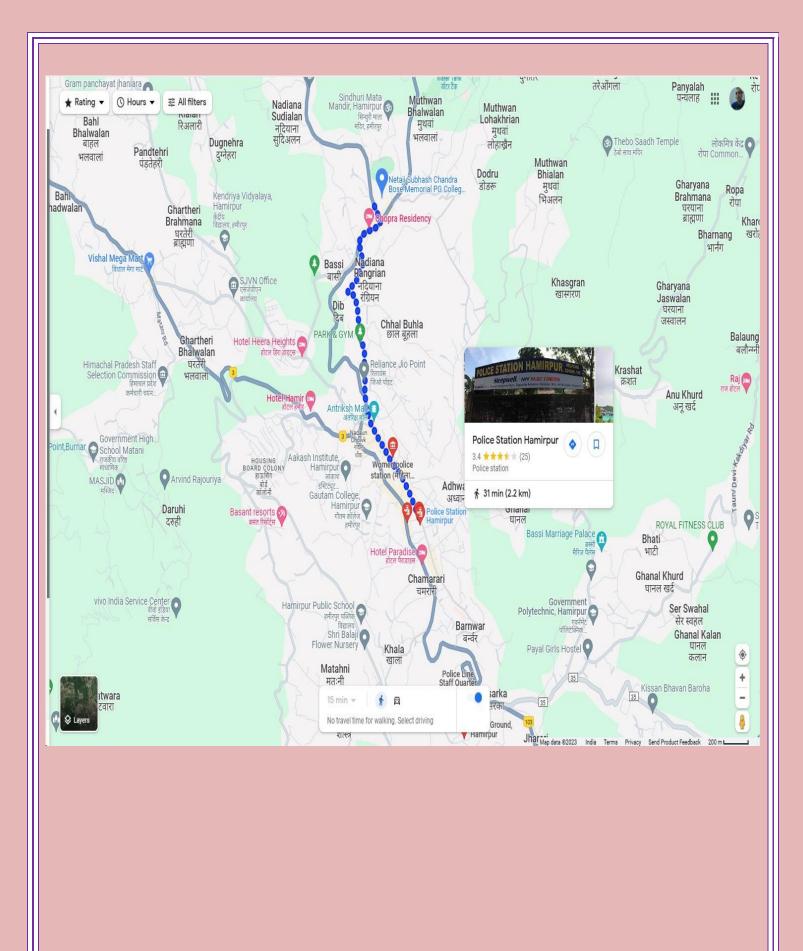


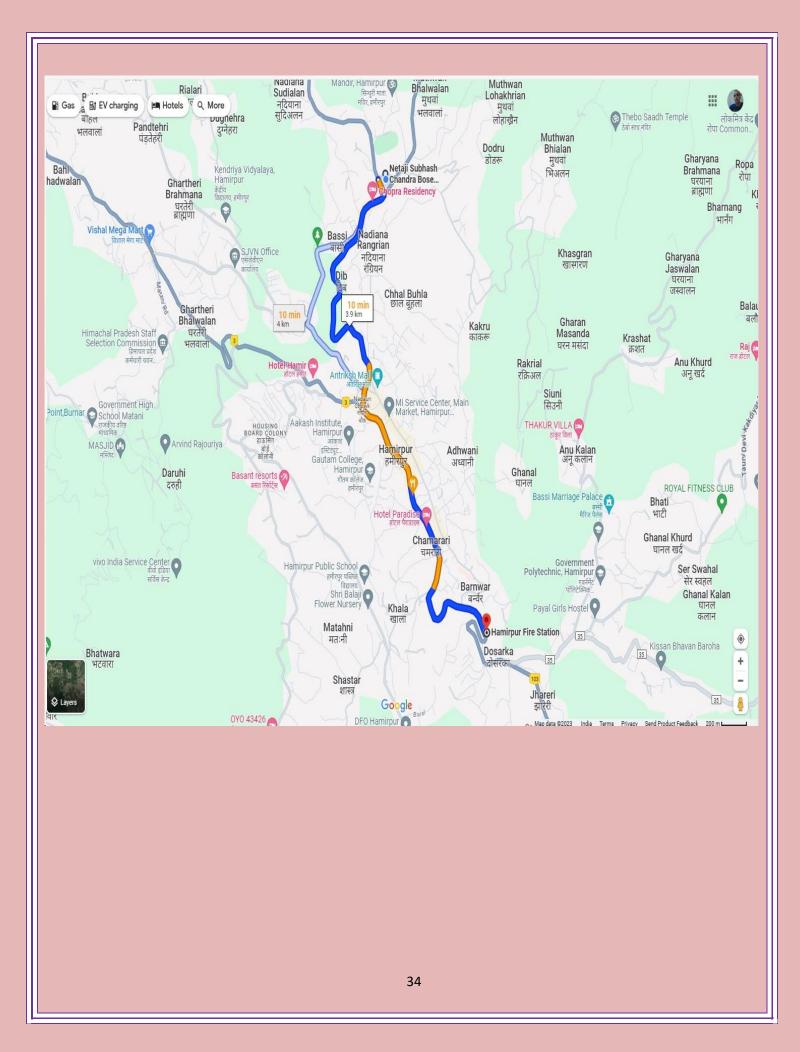


# Location of NSCBM Govt. College Hamirpur in Relation to Medical College, Police Station and Fire Station

Medical college, Police Station and Fire Station are located within 4 Km from the College and can be reached within 10 minutes.







## Awareness Generation and Sensitization.

Disaster Management Cell has been established since 2022 in the college and it is functional to till date. From time to time it conducts different programmes and mock drills on disaster management. Disaster Management & Disaster Risks Reduction courses are studied by the Geography and Public Administration students. Disaster management plan is annually reviewed by the Disaster Management Core Committee and necessary changes are included. NCC, NSS and Rangers & Rovers Units of the College intend to conduct Seminar /Webinar, debates, Sports Activities to make the student aware to the Disaster Management in near future.

## Chapter -4

#### **Mitigation Measures**

- 1. Regular Audit of Purity of water supply is done by the college.
- 2. Fire Extinguishers are checked and refilled time to time.
- 3. The Core DM Committee ensures clearance of all exit routes.
- 4. Hand sanitizers and thermal sensors are installed in the college.
- 5. Installation of warning alarms and its functioning is to be done by the college.
- 6. Seminars for the fire safety are held from time to time.
- 7. Electricity Repair and Maintenance Committee remain active for safety checks.
- 8. Water purity and sanitization committee remain active for safe drinking water supply.
- 9. Some trees which may cause threat to life and property have been identified and legal procedure is being followed to cut these trees.
- 10. The Generator of the college is recommended to be shifted to other safer place away from the Principal's room.
- 11. Old girls hostel has been recommended by the college authorities to dismantle.
- 12. All emergency helpline phone numbers are displayed in the college campus.
- 13. College administration ensures to install reflectors on both sides of both main gates in order to avoid road accidents.
- 14. In order to avoid any kind of stampede during annual function or sports meet proper seating arrangements will be made and separate seats will be allotted for the students, guests and VIPs. To maintain overall discipline during such functions police persons are deployed and discipline committee of the college remains active.
- 15. All blocks of the college buildings have been constructed by the HPPWD according to National Building Codes.
- 16. College DM Cell shall conduct the training / awareness programs for various Teachers and Students of the college.
- 17. The college DM Cell intends the coordinate with the fire Officer to visit the college and identify/marks emergency connection points of water supply which can be used during fire breakout.

#### **Conclusion**

Our college is fully prepared and equipped to face any kind of Natural or Man Made disasters without panic. The college is cautious and alert in handling if any situation arises. The college has constituted Disaster Management Core Committee to monitor safety related action at the college level as part of his routine commitments in the college. To reinforce safety awareness amongst students, mock drill, training of teachers and students is also organized.

Principal with Disaster Management Core Committee is seriously engaged in identifying the disaster related problems and finding ways to minimize loss in case of any disasters. Training regarding rescue operations during and after disasters is imparted to some Teachers, NSS volunteers, NCC cadets, and R and R volunteers in a phased manner. The college is fully committed to mobilize local community to effectively participate in college actions through meetings, rallies etc. Adequate funds arrangements have been made as per the requirements of the Disaster Management Core Committee to meet various expenses.

Dr. Pramod Singh Patial Principal

# Jai Himachal