

# Teacher's Awareness Regarding Disaster Management in Aravalis of Haryana: A Case Study of Tosham Hills

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**Abstract:** The Disaster Management Act of 2005 introduced a paradigm shift, from erstwhile response centric syndrome to a proactive prevention, mitigation and preparedness approach. The emphasis has shifted from response to preparedness in India. The onus for making people aware lies on educational institutions. So it is inevitable to equip teachers with essential knowledge so that the coping capacity and the resilience of the community can be enhanced. Tosham Hills lies in the Bhiwani district of Haryana. These are offshoots of Aravalis and are located on mountainside, at 204 meters above mean sea level. The geo climate zone in which Tosham hills is located is highly vulnerable to various natural as well as manmade disasters such as earthquake, and mining activities. The current study is an effort to evaluate the awareness levels of teachers teaching undergraduate students in colleges of Tosham Hills towards various disasters. For the purpose of this study questionnaire was prepared and personal interviews were conducted. The results reveal that the teachers do not meet the satisfactory level of awareness about the disaster management and the essential knowledge of the disaster management should be improved.

**Keywords:** Disaster management, Aravalis, Tosham

## I. INTRODUCTION

All the world governments are concerning about the natural disasters such as Tsunami, Earthquake, Floods, Volcanic eruptions and strong winds. In 1989, the United Nations General Assembly declared the decade 1990-2000 as the International Decade for Natural Disaster Reduction with the objective to reduce loss of lives and property and restrict socio-economic damage through concerted international action, especially in developing countries. In India, the Indian Government is taking all the possible efforts to reduce the effects of natural disasters. Though the Government made considerable scientific and material progress the loss of lives and property due to disasters has not yet decreased. Natural disasters affect both developing and developed countries. The developing countries like India are gravely affected in terms of the loss of lives, adversity bared by population and the percentage of their GNP lost. Since 1991, two-third of the victims of natural disasters was from developing countries, while just 2 per cent were from highly developed nations. Those living in developing countries and especially those with limited resources tend to be more adversely affected. With the alarming rise in the natural disasters and vulnerability per se, the world community is strengthening its efforts to cope with it.

## II. DISASTERS IN INDIA

A natural disaster might be caused by earthquakes, flooding, volcanic eruption, landslide, hurricanes etc. Floods are the most common natural disaster in India. The heavy southwest monsoon rains cause the rivers to

expand their banks flooding the surrounding areas and kill thousands and displace millions of people. Excess, erratic, or untimely monsoon rainfall may also wash away or otherwise ruin crops. Almost all of India is flood-prone, and extreme precipitation events, such as flash floods and torrential rains, have become increasingly common in central India over the past several decades, coinciding with rising temperatures. Mean annual precipitation totals have remained steady due to the declining frequency of weather systems that generate moderate amounts of rain. In order to be classified as a disaster it will have profound environmental effect and/or human loss and frequently incurs financial loss. In order to be classified as a disaster it will have profound environmental effect and/or human loss and frequently incurs financial loss.

## III. AWARENESS OF DISASTER MANAGEMENT AMONG THE TEACHERS

Disaster management is emerging as an answer to the major challenge of calamities and the University Grants Commission (UGC) has approved introduction of an optional paper in the subject at under graduate (UG) levels across universities and colleges in the country. The UGC has also decided to introduce it as one of the topics in orientation and refresher courses offered by the Academic Staff Colleges (ASC) for teachers as well. The overall initiative is an effort to spread awareness and step up public preparedness to meet any exigency in times of disaster ([www.ugc.ac.in](http://www.ugc.ac.in), 2013). Teachers are responsible for disseminating the

information of disaster management among the students. Especially, teachers of higher education are expected more to be aware of the details and measures and actions to be taken at the time of natural disasters. In order to find out that whether the University/College teachers are having disaster management awareness, this study has been carried out.

**Objectives of the Study**

The objectives of the present study are:

- To find out the Disaster Management Awareness of the teachers of higher education
- To identify whether any difference in the Disaster Management awareness pattern between the male and female teachers of higher education

**IV. MATERIALS AND METHODS**

**Sample:** The sample comprised of 20 College teachers (10 males and 10 females) from Tosham Hills and adjoining areas. The sample population of teachers did not go for any Disaster Management courses and undertake any training in Disaster Management.

**Sampling Technique:** Self prepared questionnaire was used for measuring the awareness of College teachers teaching undergraduate students of colleges situated in Tosham Hill area in Haryana regarding Disaster Management.

**Technique used:** Likert Rating Scale was used as technique in this study.

**Tool:** Disaster Management Awareness Questionnaire (DMAQ) was developed and tested with 20 college teachers. The questionnaire administered among the teachers has 16 questions. The maximum score is 80 and the minimum score for the questions is 16. The DMAQ contains questions related to the General Awareness about Disaster Management

**V. HYPOTHESES FORMULATED**

1. Hypothesis (H 1 ): There will be no significant difference between the awareness regarding Disaster Management in male and female teachers of colleges situated in Tosham Hills.
2. Hypothesis (H 2 ): There will be no significant difference between the awareness regarding different dimensions of Disaster Management in male and female teachers of colleges situated in Tosham Hills.

**VI. RESULTS AND DISCUSSION**

The results of the study are given in the following tables.

**Table-1**

**Difference between the awareness regarding Disaster Management in male and female teachers of colleges situated in Tosham Hills**

Gender	N	Mean	SD	t-value
Male	10	57.09	3.299	1.87ns
Female	10	56.88	3.101	
<i>ns = Not significant</i>				
Table-1 conclude that there is significant difference between the				awareness regarding

Disaster Management in male and female teachers of colleges situated in Tosham Hills scores at 0.05 level of significance which is not significant. It shows that there is no significant difference on awareness regarding disaster management in male and female

teachers of colleges situated in Tosham Hills and the female teachers got lesser scores in the Disaster Management Awareness. The Null Hypothesis (H o ) is accepted here.

**Table-2**

**Difference between the awareness regarding different dimensions of Disaster Management in male and female teachers of colleges situated in Tosham Hills.**

Sr. No.	Variable	Gender	Mean	S.D.	't' value
1.	General Awareness	Male	2.23	2.918	1.100*
		Female	1.76	2.590	
2.	Awareness about the activities of Government in Disaster Management	Male	12.18	4.560	0.932*
		Female	12.86	4.034	
3.	Awareness about the Disaster Management curricula	Male	16.92	4.047	0.864*
		Female	17.53	3.139	

\* Not significant

The results show that there is no significant difference between the male and female teachers in the Disaster

Management awareness and the knowledge about disasters and Disaster management has to be enhanced.

## VII. CONCLUSION

This study shows that Disaster Management Awareness is the most wanted and essential knowledge which should be improved among the teachers of **colleges situated in Tosham Hills**. Curricular and extracurricular activities of Disaster Management which are to be included in the college curricula should be given more attention. Readiness to help the affected people at the time of disasters, humanity towards affected people, planning, preparedness, precautions, rescue methods – both the male and female teachers should be given in-service training in all these categories. Concepts of Disasters and Disaster Management aspects should be included in the Curricula of Colleges or Institutions providing higher level studies.

## VIII. REFERENCES

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