



Disaster Management – Defense style

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ABSTRACT

Disasters are unexpected and unavoidable. Disaster management deals with both natural and manmade disasters. It involves preparedness, response and recovery in order to reduce the impact of disasters. The problems due to disasters are huge and massive but the solution is simple if it is properly analyzed. Defence forces play a vital role with courage, bravery and human touch in any type of disaster in the world. Though defence forces providing effective services pre, during and post disasters, there is a strong need of individualistic solutions that improve disaster management operations and mitigate the impact. The current work discusses defence style solutions for effective and instant management of natural and manmade disasters. The solutions are simple and individualistic. This work educates and encourages people to protect themselves and save others during and after the disaster.

Keywords: Disaster Management, Defence, War, Natural, Manmade, Eco Problem and Individualistic Solution.

INTRODUCTION

Disaster is a serious, unexpected, sudden and unwelcome situation causing extensive damage to life and property [1]. Disasters can be broadly divided into two categories Natural and Manmade [2]. The causes may vary but the effects and repercussions are serious and everlasting. The damage caused to lives and property and infrastructure make us think of preventing beforehand followed by rescue, relief and rehabilitation methods. Prevention though not fully possible can be achieved by study of certain aspects created and executed for human needs and greed not caring for nature and ecosystem.

There are two important factors with regard to management of disasters 1) Use of technology with the data on various subjects 2) Use of machinery and human resources [3]. Technology has sufficiently advanced in providing data and methods and helped in preventing damage by forecasting weather conditions and the probability of rain, cycle and floods [4]. Advanced technology also enabled us to simulate the situation to analyze and compute the extent of damage that may be likely to occur and propagate to bring awareness and caution to the concerned to brave the situation.

Keeping the technology and forecasting apart, it is the acceptability of technology along with courage and devotion on the part of the rescuing squads and preparedness to face the situation among the public is the key for the success of disaster management. Educating the public and creation of squads, groups and volunteers to face the danger as it comes is to be given top priority.

Defence forces are the major category of humans who come across every type of disaster that accrues anywhere in the world [5]. They face disasters with not only courage and bravery but

also with a human touch. The methodology adopted and practiced by the men in defence is exemplary and worth imitation and practice. That is why where even and whenever there is natural disasters such as the recent Nepal earth Quake, Uttarakhand floods or manmade disaster like terrorist attacks, bomb blasts, train accidents, the defence force are called in to action.

Rest of the paper is organized as follows. Section 2 describes defence methods for disaster management, section 3 discusses few problems and solutions for natural and manmade disasters, section 4 illustrates a case study on disaster management at war and section 4 concludes.

2. Defence Methods

This section discusses methods adopted by defence forces. Apart from severe training imparted to them to make them physically fit and environmentally adoptable, it is the attitude and love developed by them towards the country and countrymen. Education and qualifications are not more important than the willingness to work, coordinate with colleagues and obey the orders of the concerned, takes priority. Few basic and important aspects in which they trained are:

- ❖ Fire fighting
- ❖ First AID service
- ❖ Survival techniques
- ❖ Rescue procedures

It is important to note that every man in defence does his part of work as if he is a part of machine and executes his work in symphony with other parts so that the machine works without any hindrance to fulfill the objectives for which it is meant for. The important note is technology has developed the machine, but it is man behind the machine that makes it to work to obtain

optimum results. Any advanced technical equipment needs an equally qualified and willing worker to succeed. Thanks to the development of Technology and also the methods of applying the same for the benefit of mankind.

Solutions

We have progressed much and developed the living conditions and civilized ourselves. Where ever collective methods, works and deeds are executed by Government corporates or research organization, we have succeeded to a great extent. We have reached the moon and mars by our technology and collective efforts.

When problem comes to individuals, we can say unhesitating that we are far behind the expected mark. Educational institutions, Non-Governmental Organizations (NGOs) social service organizations, Government agencies can educate the individuals on various aspects of self defence and collective safe guarding methods. Individuals on the other hand feel it is the duty of some agencies or the Government that is responsible for protecting and safe guarding them, for all the ills that may occur to their lives and property.

The current work discusses solutions for effective and instant management of various kinds' calamities such as natural and manmade disasters defence style.

Natural Disaster Management

The calamities are huge and so it is common to think that bigger agencies only can find solution and solve the problem. The problems have to be properly analyzed to see the solution. The solution should emanate from the problem itself. It gives us the causes and effects of the disaster. From this can be generated both prevention and cure. The involvement of effected people to find the solution will give proper response. In the process the problem can be split in to segments and bits to find the solution in order to fit every individual in proper place so that the huge problem may find the rescuers among the effected people and masses.

Most of the individuals are so ignorant and so untrained even among the educated that they do not know even simple things such as what is their blood group, whom to contact when in danger, whom to inform when they need any help etc., Leave alone the methods of first aid and firefighting etc. The basic technological preparations to be made are:

- ❖ There should be an erasable data in each and every cell phone users about his particulars such as name, address and blood group whom to inform in case of need etc.
- ❖ Data about which agencies to contact in case of calamities like floods, accidents, fire etc.
- ❖ What one can and has to do in a given situation

This is applicable to all the citizens irrespective whether they are in danger prone area or not.

The solutions are simple if the problem is properly analyzed. But the implementation is a herculean task. The concentration should now shift to individuals who form part of the rescue team. They must be educated about the problem and trained to take part in the combined effort to face the calamity. They must be made to understand their part in the whole affair so that they will work like a part of the same machine. The pity is that in any disaster or calamity everyone sinks in fear and terrified that

they also become part of the problem. It is the duty of Disaster managers to see that these people should be made as part of the solution.

A miracle solution to motivate people to face the challenge is to ask them to think as to "What I can do"? In the given situation. If the public thinks "what I can do" and acts as per the dictates of their consciousness and acts to the extent possible, some of the problem is solved. Humans by nature are socialites. Everyone loves to live in peace and harmony and like to help others in need. Only they should know the method and ways of doing so for which tech data and training is needed. This has got to be provided by the Government agencies and organizations concerned

Manmade Disaster Management

Natural disasters are very huge and appear as if they are to be dealt by world agencies, we feel it is the duty of the Government or other agencies to take care of the same and the common man has nothing to do. But when they are analyzed, it revolves around human beings, their greed and their do not care for attitude. The current section considers Ozone layer and Eco problems as manmade disasters and discusses individualistic solutions.

The major Eco problems are global warming, no rains or untimely and unexpected rains. There are lot of forecasts and dangers to be faced by the earth and living beings in media but do not react or question himself "what he can do about it?" When the problem is analyzed, mainly it is the pollution of different kinds that is responsible to this.

Some of the reasons attributable global warming is Pollution of air, water, food, sound and environment etc. Question yourself as to who is responsible for the impending danger? For all the above it can be said that we are the cause and part of the problem. If we think and accept it we are the solution too. Then stop the reasons and be a crusader to avert the impending disaster.

The solutions are simple and can be implemented with little care. They are:

- ❖ Pollution of air by emission of smoke, hot gases, excess use of energy etc.
- ❖ Water –excess use of water and not bother to conserve water by sinking pits, check dams and reservoirs
- ❖ Sound –too much usage of sound systems, fancy and blasting horns. We blow horns even when red light is on ahead
- ❖ Food-in view of achieving higher yields, excessive use of fertilizers and pesticides, we pollute and kill the nature friendly insects and ecofriendly worms forgetting about organic farming
- ❖ Environment-unplanned destruction and exploration of nature for commercial and financial gains with no care for the saving or planting of trees and conservation of nature and natural resources for future generation

It appears as if we only think of handing over wealth to the next generation and care little for giving them a clean and loving nature and earth. From all the above is in found that the danger is huge and massive but the solution is individual and astonishingly achievable. Let us question ourselves to "what I

can do?" Everyone can do his/her fit to protect the eco system to avert the impending disaster.

A Case Study on Disaster Management at War

War is one of the most devastating disaster. There are no limitations of territory or kinds of destructive weapons or bombs used to have an estimation of what and where could be the damage [6]. This very aspects makes people including civil population to prepare themselves to save themselves.

The case study takes air force at war. During the war the air force run towards bunkers and trenches with rifles on their shoulder aiming fire bullets on jet fighters of enemy. It is like a lightning pass over head in a split second. The environment of battlefield contains combing from east to west and north to south fighters, frightening sounds and screams.

Once destruction is over disaster management take place. The force run around and search with shouts to find any casualties. The wounded soldiers are bring to ambulance and take for medical care. Then the soldiers console among themselves, hugged and cried seeing their dear ones dead bodies. The soldiers have to ready to face any more attack. There was no over lapping or working at cross purposes. The priority of saving human lives is high. The boss of the area conducts affairs which gave the courage and confidence to all. The ambulance arrive in time. The fire fighting force came in time. The siren man blew the siren in time to alert all. Everyone went back to their safety when it ended. No one created any scene though everyone was shocked and the mind was blocked with no thought in it. Through there is fear and gloom all over, it had not obstructed any work. Every one helped each other to salvage the remains and restore courage and confidence.

CONCLUSION

The current work discusses few simple and effective defence style solutions to manage natural and manmade disasters. The

solutions are individualistic that brings confidence in individuals. The work concludes that instead of providing the technical data, it is the primary duty to train and prepare the individuals to face the calamity with proper information and technology, with a touch of humanity using mind and heart. A massive education programmers to teach the citizens and a compulsory curriculum in the schools, colleges are all educational institutions to bring awareness and teach techniques to all the individuals will result in a miraculous situation to face and manage the disaster of any kind in any part of the country.

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