## **Conceptualization of Effective Management System for Seismic Disaster**

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The Indian scenario of fight against destruction, damage, loss of property and life from earthquake continues. The effective efforts for prediction of earthquakes for the location, time and size are still questionable. Our country is most vulnerable to a variety of natural disasters. Higher frequency of hazards due to floods, droughts and cyclones are managed in a more professional manner. With the increasing population of the country, the agglomerated clusters of urban system also increasing the risks of economic and and human loss due to seismic hazards year to year. The hazard evaluation activities for the cities lying in the highly seismic zones like IV and V with population more than half million. Among these cities are Delhi, Chandigarh, Bhuj, Jabalpur, Kolkatta and Mumbai are situated over plain, whereas Srinagar, Kangra, Shimla and Sikkim are lying at elevated Himalayas or foot hills of Himalayas.

Keeping in view, these cities on priority, we have to establish a city based appropriate, efficient and transparent Seismic Disaster Management System (SDMS) which would promptly act proactive and reactive on occurrence of any natural seismic event in the Indian sub continent.

When we talk about the proactive stage of the event, lack of proper base map on higher resolution for these cities including elevation/ relief, which forms a robust platform to integrate all geospatial data base (Viz. Geological, Geomprphological, Sub - surface Soil conditions and Soil Cross section etc) for Scenario development for a probable earthquake event along sources and physiographic situations of these cities and surroundings.

For reactive stage of disaster a prompt Rescue, Relief and Rehabilitation system must be functional for affected people to their quick accessibility to health centers, rescue operating groups and to open space with proper shelter on temporary arrangements etc. The operating relief groups should also be well versatile to cope with the situations arising due to gas line bursts, electric broke, fire broke, water pipe line and sewage damages etc.

This paper further enlights various stages of proactive and reactive Seismic Disaster Management System, which would be of much importance for industrial development in seismic prone cities.