

बिहार राज्य आपदा प्रबंधन प्राधिकरण

BIHAR STATE DISASTER MANAGEMENT AUTHORITY





Vision: To make Bihar a disaster resilient state

Bihar State Disaster Management Authority (BSDMA) believes that public awareness is the first step towards disaster risk reduction and this faith was reflected in the 5th meeting of the Authority (25th June 2011), chaired by hon'ble Chief Minister, Bihar cum Chairman of the Authority, where an important decision among others was taken to observe 'hazard specific safety week'. Accordingly, it was decided to observe:

- Every year week starting from 15th January as "Earthquake Safety Week" in the state.
- 2. First week of June every year as "Flood Safety Week"
- Foundation day (6th Nov) of the authority to b e observed as "Disaster Volunteers Day"





Hazards and Vulnerability of Bihar

Bihar is one of the most disaster prone states in the country and is prone to multi hazards. The geographical and topographical situation of the state makes it highly prone to severe and moderate earthquake risks. Flood has been prominent recurring hazard in the state. Fire, and cyclone are also responsible for damage of property and life loss. The earthquake hazard situation in Bihar is very peculiar, wherein the northern parts of the state abutting Nepal lie in highest seismic zones, but the southern districts lie in the comparative stable area with low intensity zone. As per seismic zoning map 6.5% of the total area of Bihar is placed in Zone V, referred to as very high damage risk zone. Out of the 38 districts of the state a total no. of 8 districts fall under the highest earthquake seismic zone-V. Again 22 districts of the state fall under seismic zone-IV and the rest in zone III.Capital city Patna is also in the highly susceptible to destruction as it lies in zone IV.

Earthquake Disasters in Past

Awareness and sensitization among community in the campaign of Disaster risk reduction is imperative as earthquake itself is not responsible for the death and property destruction but old & weak structures and ignorance & carelessness of minimum building standards and unplanned construction.

The 1934 earthquake of scale 8.1 of origin in Nepal on the border of Bihar and Nepal was one of the worst quake in not only the history of Bihar but also India. Two districts Munger and Muzaffarpur were completed destructed and caused widespread deaths (an estimated 10,000 people killed) and destruction of huge public & private property. Shocks were also felt in Mumbai and Kolkata where many buildings were damaged.

In 1988 the quake which hit Bihar on scale of around 7 on Richter damaged larger parts of Bihar and took toll of lives close to 375. The recent Sikkim earthquake of Sep'2011 was 6.8 on scale also took toll of 9 lives in Bihar.







EARTHOUAKE SAFETY WEEK TO BE OBSERVED IN THE WHOLE STATE FROM 15th JAN'2012

Press Release (highlights)

Patna, Bihar 11th Jan'2012, Bihar State Disaster Management Authority, Govt. of Bihar has decided to observe 'Earthquake Safety Week-2012' in the whole state, starting from 15th January, in remembrance of the most devastating Nepal-Bihar earthquake of 1934.

Keeping the seismic vulnerability of the state in mind and as a part of public awareness strategy. a wide range of activities has been planned at State and district level. These activities will be

undertaken at school, college, thana and community levels.



At the state level two state level workshops have been planned. One in association with Department of Health, Government of Bihar, on 'Hospital Safety, Preparedness & Mass Casualty Management' at Auditorium, State Institute of Health & Family Welfare (SIHFW), Seikhpura, Patna on 18th January 2012. The objective of this workshop is to create a common understanding of the situation to be planned for, in mass emergencies following Earthquake, train accident etc., to generate a common understanding of the generic preparedness planning concept and its components in a crisis situation and to suggest technologies that will improve the over-all effectiveness of the health system to handle mass causalities.

Another on 'Earthquake Disaster Mitigation in Bihar -The Road Ahead' at Conference Hall, Hotel Patliputra Ashok, Patna, on 20th January'2012 with collaboration and support of Unicef. The main objective of this workshop will be to assess the status of mitigation in the state and to develop a broad road map for Earthquake Disaster Mitigation approach for the state in a consultative mode. The representatives from Nalanda Open University, IIT-Patna, NIT, BIT-Mesra/Patna, and the Govt. depts. engaged in construction activities and other engineering colleges of Bihar are also being invited for providing required thrust for the road map and also including it as a strategic approach for community mobilization. Students are especially encouraged to attend and participate in the event.

Along with the above workshops, 2nd Meeting of Technical Committee on establishing State wide Seismological Observatory Network was also called under the chairmanship of Prof. A.S. Arya, Hon'ble Member, BSDMA.

At District level the District Disaster Management Authority's (DDMAs) have been instructed to organize and conduct various activities like 'DRR- Run', debates, Essay-Slogan writing competitions, Poster making, Disaster quiz, mock-drills and preparation of School Disaster management Plan among students at school/college level.

Public Awareness and education is the first step towards disaster mitigation and risk reduction.

For raising public awareness the safety measures would be widely publicized in Railway stations, Panchayat Bhavans, Airport, Libraries, Hospitals, Banks, Post-Offices, Civil Courts, Bus Stand, Shopping Complex, Hatt- Bazars, Cinema halls, Nagar Palikas, Nagar Nigam wards and other public places etc.

At Thana level, the debates/talks will be organized with 'Bihar Rajya Nagrik Parishad' to raise the general awareness of the people and to seek public cooperation during times of disaster.

BSDMA would like to appeal to the media in all forms and mediums to contribute and widely publicized the earthquake safety measures and help us in moving towards a safe and resilient Bihar.

State Level Activities During Earthquake Safety Week

1. Formation of the technical committee on setting up 'Seismology Observatories Network'in Bihar

A technical committee was formed in the chairmanship of Prof. A. S. Arya, Hon'ble Member, BSDMA for establishing 'Seismological Observatory Network' in Bihar on 13/11/2011. The second meeting of the technical

> committee was held on 17/01/2012 in the Office of BSDMA.

The committee consists of many scholars in this field. Mr. Animesh Chanda [Director, IMD, Bihar, Patna], Dr. A. K. Shukla [Dy, Director, EREC, IMD, Lodi Load, New Delhi], Director Incharge [G.S.I., Bihar, Patna], Dr. A. Kumar [Professor, Earthquake engineering, IIT Roorki], and Dr. A. K. Nath [Professor, Earth Sciences, IIT-kgp].



"घर सुरक्षित, आप सुरक्षित" घर या फ्लैट खरीदते समय, पुछिये कि

- वह जगह कौन से भुकंपीय जोन में है
- क्या वहां 'Soil testing' किया गया है ?
- क्या घर/फ्लैट भूकंप से सुरक्षित है ?
- क्या Building/मकान BIS Codes के अनुसार बना है ?
- क्याँ बनाते वक्त वहां किसी Structural Engineer से सलाह ली गयी ?





2. State Level Workshop on 'Hospital Safety, Preparedness and Mass Casualty Management'.

In the Earthquake Safety Week from Jan 15-22, 2012, a state level workshop was organized on Jan 18 by the active collaboration Department of Health & family Welfare in association with BSDMA at State Institute of Health and Family Welfare (SIHFW), Seikhpura, Patna.



Apart from these, many health experts from

around the state also took part in the workshop. This was a major achievement in the efforts put by BSDMA to take stock of situation of hospitals in the state in the occurrence of any earthquake and also co-ordination among various hospitals for mass casualty management. This also provided hospitals of all category to reflect on their capacity and efficiency to deal a mass casualty in any future disasters.

CMOs from different districts, Medical colleges, and various private hospitals took part in the workshop,

This initiatives do help in the time of emergency arising in the occurrence of earthquake.



Rationale:

In view of the increasing emergency hazards, risks and vulnerabilities in the state, the community expectation from the health sector to meet the emergency health needs has been gradually increasing. Disaster experience in the last few years in the country and neighbouring regions have shown that they also simultaneously destroy health facilities, besides other infrastructures.

Objectives:

- A common understanding of the situation to be planned for, in mass emergencies following Earthquake, train accident etc.
- O A common understanding of the generic preparedness planning concept and its components in a crises situation.
- O To suggest technologies that will improve the over-all effectiveness of the health system to handle mass causalities.

The workshop was chaired by Shri Anil.K Sinha Hon'ble Vice Chairman of the Authority & Dr. R. D Ranjan, Director, SIHFW. The workshop was concluded with a simulation table top exercise, where each hospital has to present its plan in a given situation. Dr. D.K Gupta, nodal officer, Disaster Management Health Department, Govt of Bihar actively supported the workshop and highlighted the role of health services during disasters.

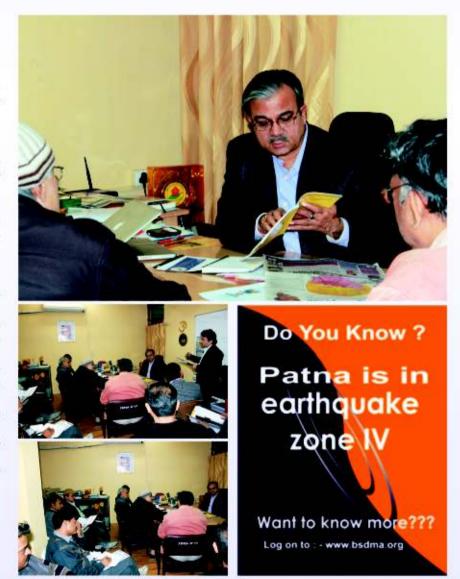
3. Meeting with Public Sector Companies

In continuation to the events being held in the 'earthquake safety week' a meeting was organized with various private companies and PSUs on 17th January at BSDMA conference hall, 2nd floor, Pant Bhawan, Patna to explore the possibilities and arrangements for launching a state wide campaign towards earthquake awareness and safety under their CSR initiatives. Collaboration for creating the public awareness, sensitization and education on disasters was discussed with the companies and organizations present in the meeting. Their co-operation was sought as disaster is everyone's business to act and co-operate.

Public awareness and education by sensitizing people is the first step towards disaster mitigation and risk reduction. The role of Public sector companies and private sector companies or be joint venture on public-private partnership is very crucial in the endeavor in building momentum for public awareness in the entire state given the outreach of companies in the community. This outreach could be capitalized on for reaching masses for disaster awareness and sensitization which will be fruitful in mitigation efforts for hazards prevalent in the state.

Some of the PSUs and organisations participated in the meeting were IOCL, NTPC, HDFC & PNB.

Facing Disaster Without Tears





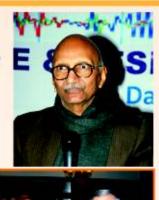
4. Workshop on 'Earthquake Disaster Mitigation in Bihar—The Road Ahead' at Conference Hall, Hotel Patliputra Ashok, Patna

A state level workshop was held on Jan 20, 2012 in the 'Earthquake Safety Week' by the BSDMA with collaboration & support of Unicef in Hotel Patliputra Ashok, Patna on theme "Earthquake Disaster Mitigation in Bihar—The Road Ahead". This was part of efforts being put by the BSDMA in moving towards a safe and resilient Bihar. This state level workshop was inaugurated by the Dr. Renu Kumari Kushwaha, Hon'ble Minister, Disaster Management, Govt of Bihar.

The impacts of the natural disaster have been very devastating and damaging, resulting in extensive loss to life and property. In addition, the disasters over the years have also adversely affected economic development in the State. In the recent past, due to various natural and human induced factors, the intensity and frequency of natural disasters has increased enormously. Giving serious thought to this day by day increasing threat from disasters, the Bihar State Disaster Management Authority (BSDMA) recognizes the need for a proactive, comprehensive, and sustained approach to their management with an objective to reduce the detrimental effect it has on the overall socioeconomic development of the state. To tackle the issue more effectively and efficiently, the Authority has carried out extensive rounds of consultation meetings, in the field of policy planning and its implementation with the close intervention of different stakeholders.

BSDMA has been accorded the lead role in directing the strategic planning process for disaster response, risk mitigation, preparedness planning and risk reduction.

The main objective of this workshop was to assess the status of mitigation in the state and to develop a broad road map for Earthquake Disaster Mitigation approach for the state in a consultative mode. The representatives of Nalanda Open University, IIT-Patna, NIT, BIT-Mesra, representatives from all the deptt. engaged in construction activities and other engineering colleges of Bihar were also invited for providing required thrust for the road map and also including it as a strategic approach for community mobilization. Students were especially encouraged to attend and participate in the event.









Woving 10
Venue: Hotel



District Level Activities During Earthquake Safety Week

At the district level, all the districts of Bihar State were responsible for the district level activities on the week specified for the 'Earthquake Safety' by the BSDMA. In the districts, the respective District Disaster Management Authority (DDMA) were assigned the task for the district level activities. The DDMAs conducted the 'Earthquake Safety Week' within the state at two level; first at the school level and; second at the Panchayat and Thana level. various districts in the state organized and conducted various programmes through DDMAs at both school level and at Panchayat and Thana level. The school level activities included debates on disaster management and various prevalent hazards in the state. Essay-slogan writing, disaster awareness quiz's, poster making, mock drills and preparation and school disaster management plan. At the Panchayat and Thana level, debates and talks were conducted to raise public awareness along with 'Bihar Rajya Nagrik Parishad. From the year onwards the safety measures' posters were published at railways stations, panchayats bhawans, hospitals, banks, post-offices, civil courts, bus stands, shopping complexes, hatt-bazar, cinema halls, municipalities etc. The 'Earthquake Safety Week' was observed in all the districts of Bihar and State has moved on the path of community sensitization and awareness to disasters. This is the very enthusiastic beginning for nurturing the culture of safety and preparedness in the state Bihar. This beginning was really remarkable as almost all sections of the society and community took part in the 'earthquake safety week' where not only administration but schools, colleges, institutes, organizations and common people participated in full zeal all across the state. Media support was also highly appreciable in bringing the public awareness. Districts Araria, Khagaria, Munger, Patna, Madhubani, Sitamarhi, Darbhanga and Begusarai are among those which actively participated in the 'earthquake safety week'.



Media Room

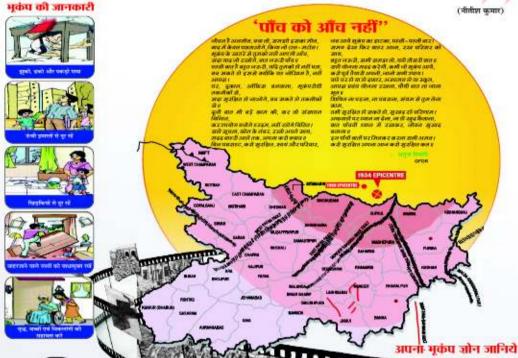
विकास प्रेसा हो जो आफत से बचाए। प्रेसा न हो कि आफत बन जाए॥

सरस

१५ - २२ जनवरी २०१२

यह हर्षे का विषय है कि भुकंप जैसे गंभीर विषय पर जागरुकता लाने के लिए बिहार राज्य आपदा प्रबंधन प्राधिकरण "15 जनवरी 2012 से भुकंप सुरक्षा सप्ताह" परे राज्य में मनाने जा रहा है। बिहार शताब्दी वर्ष में प्रारंभ होने बाले इस सप्ताह के माध्यम से बिहार वासियों को भक्तप से बचाय एवं सरका के बारे में जागरूक किया जायेगा। यह भी उल्लेखनीय है कि हमारे राज्य के अधिकांश इलाके भूकंप के जोन IV एवं V में आते हैं एवं राज्य ने वर्ष 1934 एवं 1988 में इस आवदा की विभीषिका भी झेली है। सुरक्षा उपायों की जानकारी से ही भूकंप से जान-माल के नुकसान को कम किया जा सकता है।

सुरक्षित बिहार हमारा सपना है और आपकी सुरक्षा के लिए सरकार सदैव तत्पर है। आइचे हम सब लोग मिलकर विकासशील बिहार की नींव भूकंपरोधी बनाएं।





(नीतीश कुमार) मुख्यमंत्री, बिहार सह-अध्यक्ष, बिहार राज्य आपदा प्रबंधन प्राधिकरण

प्रत्येक जोन/क्षेत्र में मुकंप की तीव्रताएं

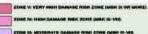
site V तक देश में अर्वकारण न्वेत्रिया का 'संद है तथा बड़े गुक्तें को संभावना एखता है। ऐसे पूर्वक जो पूर्व वह इंदर्शन मध्य असती हैं तका जीवन वह संगीत को अर्थ आँठ पहुंचा मकती है। विदोश रूप से दिवसूत्र वह रुपी इंदरणा को तक में उत्तरोखतीन और मी पायती है। इसरती में भारी बारी जो ऑफिक बात में या पूरी तरह दश सकते हैं होता पार्टिया बूड़ जाते हैं और सहकों को नुस्कान पहुंच्या है, जानेन में अनेक मेंटीबॉटर वीहते राहे पड़ जाते हैं, पुनिष्ठत बहुरें दूर जाते हैं, अरेक जाता पुरक्षाना होता है, अर्ट्टा सिहते हैं जब ब्रेपेयड़ बाहता है, ताने में सिकाल लारें पेच होती हैं। जाते हमसे बीखक आंचक तो जाते हैं, पहां नाना है, जाना मा व्यवसन नहरं पेख होती हैं (जहां इनकी विद्वार अधिक ही जाती है, यहां पूर्वपेट्रण में जहाजप के स्थान पूरा विजान हो सकता है दिसमी नीटवॉ का स्था तक बहार प्रकार है।

्रतेषणः (X और प्राप्ते अधिकः)

कोशांV यह जीन प्रकल बुकेंग भी संभावन रखता है जिससे हर जबह हहकेंग मध्य जहां है, भारी करीया इस-उक्त में जाते हैं। ऐसे भूगों में अच्छे हिसाइन/निमंग कार्य ग्रंटबनाओं/स्थापोर्ट में गण्या दर्जे की श्रीत हो सकते हैं, अर्थोक खाया निर्माण वाली मेरबनाओं को क्यों स्टीत हो सकते हैं। हमीर अन्य प्रभावों में खही इसमें स क्रुस्स्तर, तबीत में कुछ में टीमोटर चौड़ी एवरें यह व तका झोलों के पानी का नंदला होना सामित है ।

ate III

जोण है। यह जीन में अधिक तोज़ता वाले भूकंप महसूस किए जा सकते हैं । ऐसे भूकंप जो इन किसी को उन देहें हैं , खोरों के रियर कहा होना यह करिन हो जाता है । वाहनों में सकत कर रहे लोग को ऐसे कुमेजों को कायुस कर सकते हैं। उनको विश्वपूत और तियोग कार्य संस्थानको,तमार्जी में इसको अति होती है, जबकि गुराब हिस्सुदर्गकोंग सबसे संरचनाओं/प्रमारले में भागे अति शेती है।(तीवल:VII)



11111111 संदेश भुकम्प से बचाव के उपाय

मुक्तम से मुख्या जैसे गंधीर विषय को आस ार्ग तक पहुंचाने हेनु जनवरी 2012 के 18 नेनी कर गहुँचाने हेतु जनकी 3012 के 18 तरिक में पूर्व रहत में 'मुक्ट मुख्य मानता' मानका था का है। पुरुष में बन्दार की मानकामें जब-अग तक खुँचाने हेतु प्रतिकारण के इस प्रकार को आन्या प्रकार केवान का पूर्व प्रत्योग प्रत्य है। मुख्य की सामा का पूर्व प्रत्योग प्राप्त काम है। आहा प्रत्यो हैं कि प्रतिकारण अपने इस

(रणु कुमारी कुशशाहा) संहे, आकर प्रचयन विचान, जिला

'घर सुरक्षित, आप सुरक्षित'' घर या फ्लैट खरीदते समव, पृष्ठिये कि

- वह जगह औन से भुकंपीय जोन में है
- बना वहां 'Soil testing' किया गया है ?
- क्या घर/फ्लैट भुकंप से सरक्षित है ? • क्वा Building/मकान BIS Codes के अनुसार बना है 7
- क्वा बनाते बका वहां किसी Structural Engineer से सलाह ली गवी ?



संदेश

मुक्तम एक गंभीर आयश्च है। इससे बच्चाय एवं . राजनात के कम नुकसान हेतु इस विषय की भागकारी होना निस्तेत आवारणक है। पानसेव मुख्यमंत्री विद्यार सह-अध्यक्ष विद्यार नाग्य आपन्न प्रबंधन प्राधिवतम् के निज्ञा निर्देश में प्राधिकतम् द्वारा पूरे गत्य में "बुकेच सुरक्षा सन्तार" प्राचेक वर्ष 35 जनको से मणके आने का निर्मात विशास गाम है। कुळेच जैसी विभोषिका से भारत समेत कई देश पीड़ित है। बच्चात ही सुरक्षा है को स्वान में रखते हुए बिद्धार चारियों को जागरक करने का रख हमारा राज्यकाची प्रयास है जिसमें आपका

(अस्ति कुमार सिन्हा)

- चोल् प्रसान नेते अलगाती, पुत्र केता, शहता आदि को वेपारी से मेत से सोड़ कर रखें, तिसमें पुष्टम के दौरान वे कि ताते। पुत्र तिस्त्रीय प्रतिक्रित अभिन्ना के समाव से तहनीं। आव्यान ही कि आपकान मुलीका है तहन सी ते दक्ष अभिगत के सुप्रसारी से ट्रिकेटिन द्वार उने कुकार विभोजना। पुक्रमा को ट्रिकेटिन द्वार उने कुकार विभोजना। पुक्रमा को से करने कोई नेताकों नहीं देता दानिए समाव के मुझां

- पा उत्पातकर। ७ ता वातु श्री को गरिमा आमानी में मिलने वाली जमत पर रखें पानी की बीतल, टॉर्स, बैटरी से चलने वाला गेडियो, मुखा भीन्य एटको गैजमा को दखहुंचा अदि।
- वा बोचे में खड़े हो। वाध्यम के लैटन अगर अगर फिक्से चेव्हमत अधिकत ना क्रवरनर में भी ले
- पुष्टमा के देशन अन्तर उस तका प्रकाश है, वारकार वा उरस्पार पाता अन्दर ही अर्थ, दोनों हाती में सिंग को दाव में तता पूर्णि करना तांत होने पर कारान्यद्व ही कर बाहर निकर्ती। पुकार के दौरान आमा आग पर से बाहर ही वा वहतन वस्ता रहे ही ही

- चवरातर में इंधन-उचर ने मते। चुक्तम के चैठन दरवाले के सकते में खड़े नहीं। खब्द कारने की तैस तक बिताली से चलने खते सभी जाबर में
- का प्रतीम न करें । इस कर मिर्फ फानी दोवारी, बिजानी की तारी, मलबें, इकड़ी तथा पेड़ी
- के पता न जाए। श्रीतपाल मकाने में प्रचेता न करें और न ही रहें।
- अम्म आग्र नरमणुंची इकारत में हो के लिकट का प्रमोश न करें।
 मुख्यम शक जाने के तुरंत बाद, मार्चेम, मेमबाती तथा नार्कोन न















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