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Serene Himalaya! Is it?

Making Nature a Tragedy

Spacial Feature District Disaster Management Plans in Bihar

"Adhunik Vishwakarma"

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Making Nature a Tragedy

Shall We Use the Lessons from Uttarakhand Flash Flood 2013?

"D rawing lessons from mistakes' – does it make sense? Answers are two 'Yes": yes, if we learn not to do the same mistakes again, and Yes – if we do 'new mistakes'. But this is certainly not the correct philosophy for 'disaster risk reduction' or what we term as 'safe habitat'. Fragile ecology with varying stage landslides in Uttarakhand on the land and buildings already earthquake-shaken several times – flashfloods though common but of 2013 trigged a havoc been called in media as 'Himalayan Tsunami'. There were numerous articles, analysis, workshops to draw lessons and to feed into future strategies of safer and sustainable development in this divine land of natural treasure. However, questions remain burning that whether these lessons are fed into implementable plans and ground actions or only are fashioned into research publications and luxurious workshops and media discussions.

- Building codes for earthquake safety exist in India for decades, yet engineering-contactor-economic lobbies stress on fast development keeping eyes closed on side effects on landscapes and ground stability. Landscape based planning is still a distant dream which actually holds the key to effective local planning.
- Externality based disaster preparedness hoping that it's the defense forces or disaster response force which have to save people, or thinking that risks are for others and not to them, had set the background of near-no preparedness for disasters in Uttarakhand locals.
- Once in the forefronts of disaster management planning and preparedness at local levels, Uttarakhand state gradually went in the darkness making such plans un-updated, obsolete and out of use. It is important to note that templetowns like Kedarnath had a well-designed urban masterplan decades back but never updated or re-validated and was kept out of reference in land-use planning and locating infrastructure and housing.

applicable to other regions or the country or other cities/towns would be much irrelevant for Uttarakhand. In fact, it required to develop locally sustainable ecologically compatible models of economic and infrastructure growth for smaller units. Since Uttarakhand is known for tourism, issues of sustainable tourism along with protecting ecosystem services need to be ensured, with effective tourism management and control system.



Dr. Anil Gupta Head of Policy Planning and Environment Division at National Institute of Disaster Management (NIDM), New Delhi. He is also the Coordinator of Technical Advisory Group on Disaster Management.

- There has been varying versions on interpretation of forecasts. Drawing lessons and enabling an effective coordination system for immediate but correct onward dissemination is crucial to prevent such events from being a disaster.
- Despite of Central Government's notification of state's land as eco-sensi-

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aster is to look from a system perspective, i.e. relationship between eco-geohydrological components, implications of climate change on peoples resources and livelihood, and preparedness to deal with uncertainties and sudden events.

EIA, Risk Chemers Analysis and Safety Analysis for Hydro-power and other infrastructure

projects looked primarily aiming to project's safety and sustainability and rarely addressed secondary and lower order impacts.

- Inter-relations between earthquake impacts on buildings & infrastructure, effect of forest fires and vegetation pattern changes on snow cover and catchments, and messages of changing courses of rivers and tributaries was seldom incorporated for enabling carrying capacity based local development planning process.
- The analysis tells that common models of development as

Most important and broad understanding that emerged from this dis-

need of greater awareness and public perception on the underlying factors

of risk and vulnerability that increase disaster risk, especially related to land and its use, occupations and housing, and for balancing human aspirations Vs. physical limitations posed by nature. The 'living with risk – but with effective mitigation and adequate preparedness' holds the mantra. Besides this, it is equally important to screen each and every major actions or projects post-disaster to look from sustainability and safety perspective which unfortunately doesn't seem much obvious in recent cases. यह कार्य बिहार की 10 करोड़ जनता को समर्पित है– श्री अनिल सिन्हा

This exercise is dedicated to 10 crore (100 million) people of Bihar.- Mr. Anil Sinha

A bove highlights the soul of the mammoth task Bihar State Disaster Management Authority (BSDMA) initiated during March 2015 by deciding to get prepared District Disaster Management Plans (DDMPs) for all 38 districts of Bihar state. The visionary approach and missionary zeal of Mr A.K. Sinha, Vice President, BSDMA ensured that the entire exercise should go deep into the hearts of all stakeholders right from the initial stages of the entire exercise including Disaster Management Department of Govt of Bihar, entire team at BSDMA, agencies shortlisted and assigned the work, District Administration, officials, Non-Govt agencies and ultimately the common man of Bihar living in villages & cities throughout the entire process.

"Ensuring ownership of the DDMP among all stakeholders should be the top agenda of entire process, planning & working" was what Mr Sinha instilled repeatedly into BSDMA team and all 9 agencies who are working on this project in Bihar. And to make it practically feasible on ground, he not only got himself personally involved in day-to-day process of the whole exercise but also ensured to make full use of the latest technology in the form of social media by asking the team at BSDMA to create a Whats App group comprising 2 persons from all 9 agencies, entire BSDMA team, district magistrates of all 38 districts and even the Principal Secretary Disaster Management Sri Vyasji, IAS, so that all key stakeholders should remain apprised of the daily progress of the project and could conveniently pass on the suggestions etc to entire group.

The whole project was meticulously planned step by step right from the floating of RFQ to finalization of the agencies/consultants involving various stages

6 Ensuring own-

selection process. The emphasis was on the quality output and this drove the first phase of the project involving selection of agencies. The second phase of the project started with initial ground work by all agencies in respective districts and submission of Inception Reports. During the beginning of this second phase itself, each of the agencies were associated with 2 resource persons (experts in



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disaster management fields) from BSDMA to ensure the day-to-day live interaction of BSDMA with the agencies and also to facilitate the work by resolving/coordinating any hindrances faced by agencies in the field/districts. Then came the next phase; conduction of Inception Workshop at Patna involving all 9 agencies, entire BSDMA team, ADM/SDCs of all 38 districts and also Mr Kamal Kishore, member NDMA and other experts. Each of the 9 agencies gave detailed presentation on their approach, methodology & work plan. A thorough deliberation was done and Mr Sinha, Mr Kamal Kishore, ADMs/SDCs shared some vital & very important points related with the preparation of the DDMPs. This workshop set the real tone of the entire exercise and proved a big learning for all agencies. Now the project is in its next phase of ground work, data collection, meetings, and workshops at district level by all agencies Which Continued in between the Assembly Elections in Bihar.

The approach & methodology devised & adopted by the BSDMA in the preparation of DDMPs is going to set the field for the preparation of DDMPs in the country and will definitely act as a guide for all such projects

ership of the in the country in future. DDMP among all Purba Champaran Sitamarhi stakeholders Sheohar Gopalgani Madhub ani Kishangan should be the top Supaul Araria agenda of entire Siwan Muzaffarpur Darbhanga process, planning Madhepura Purnia Saran & working" was Samastipur Saharsa Vai shali what Mr Sinha Katihar Begusara, Khagaria instilled repeat-Buxar * Bhojpur Patna edly into Bhagalpur Mungel Nalanda **BSDMA** Sheikhpura Lakhisarar Arwal Jehanabad (aimu (bhabua) team and Rohtas Banka all 9 Jamui Nawada Aurangabad Gaya agencies.

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Safety of Next-Gen

6 No school found to be properly prepared on disaster or emergency management. Schools are either superficially or pathetically prepared and may not be in a position to safeguard lives of children, teachers & staff in case any natural or man-made hazard strikes schools. Schools have not learnt any lesson from the past incidents or increased frequency of natural & man-made disasters in 21st Century. 99



C chool Safety" is a very common phrase which any one can understand if one goes by the dictionary meaning of these two words "School" & "Safety". But in real sense it is not so simple.

If you ask someone a question "What do you visualize or what comes in your mind as soon as you hear the word "School", The answer will not be a one or two or ten phrases/words but it may be up to more than 100 words/phrases starting from the School's main gate to bell to students to teachers to canteen to lab to headmaster to guard to playground to music room and so on.

In the same manner ask a question "What comes in your mind if you hear the "Safety" in terms of school or what do you want to safeguard in a school?" And there is no prize if someone guesses about the reply to comprise words/phrases of same quantum as for the word ing while working with schools "School" above.

And if you put together the is that replies to these two questions, vou will come out with many permutations & combinations explaining or indicating about the "School Safety" that needs to be ensured. I am talking about this through our real life experiences while asking these two questions during various training sessions on school safety.

So, one should not take

"School Safety" as a remedy available off the shelf. It is very serious and deep in nature and needs a well planned & systematic approach to achieve.

Through this column I am not going to focus on the regular features on school safety i.e. Why it is needed, what needs to be done or how to ensure this or what are the guidelines etc; but I would rather like to share some very vital inputs required to be understood by all stakeholders of "School Safety" on the gaps existing in schools and current practices being adopted by schools towards school safety. This will give some idea on what needs to be done while working towards this. Rest of the article will focus on these two aspects which are the outcome of survey conducted by us and also of our vast experience of working with schools in Delhi, Uttar Pradesh, Haryana etc.

The Conclusion of our learnon disaster risk reduction (DRR)

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Pratibha Sharma Director (School Safety Program) Global Academy of Public Safety & Habitat Management (GAPSHAM) www.gapsham.org

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Training Session at a School in Bareilly

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dents or increased frequency of natural & man-made disasters in 21st Century.

Silver Lining : But one plete the formalities. should not feel hopeless. Below are some of the submissions by schools which show a silver lining for the administration to push forward the real capacity building of ■ schools on DRR:-

Until & unless some-one will continuously hammer upon us, schools will not take disaster management seriously and will never be able to implement safety guidelines.

We admit that whatev-er little we are doing on disaster management is just eyewash and is on papers only. There is nothing con crete on grounds. Whenever we get some circular from Year to all of you!

authorities, we do some exercise and send the report to concerned authorities to com-

We would like to have proper & continuous guidance from authorities for the implementation of school safety guidelines.

The survey was an eye opener for us and we were not aware about the depth & gravity of this issue (school safety). Schools should themselves take initiatives to implement school safety guidelines and remain prepared on disaster management.

Our discussions shall continue in next edition on this vital subject. Good bye till then! And a very happy, prosperous and safe New



Student Learning CPR skills at School at delhi.



Teachers Learning EarthQuake Responce skills.



Student Learning Evacuation at a School in Bareilly



Student Learning Casualty Transportation at Delhi..



Student Learning First Aid at School at delhi.

Safe Hospitals

आपदा, आपकी जान और अस्पताल

6 सभी नए अस्पतालों के भवनों का निर्माण उस

क्षेत्र विशेष की हैजर्ड प्रोफाइल या भूकम्प संवे.

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डा. प्रियंका सिंह हास्पिटल डिजास्टर मैनेजमेंट डिवीजन ग्लोबल एकेडमी ऑफ पब्लिक सेफ्टी एंड हैबिटैट मैनेजमेंट नई दिल्ली। ईमेलacademypshm@gmail.com

बचाये गए लोगों को जिस स्तर की चिकित्सा सहायता उपलब्ध होनी चाहिए स्थिति में नहीं है। अस्पताल इसी श्रेणी में आते

हैं । इनका खड़ा रहना और कई गुना क्षमता के साथ सेवा देना, आपदाओं की विभीषिका को कम करने के लिए अति आवश्यक है।

अस्पतालों की आपदा प्रबंधन क्षमता बढ़ाने के लिए जिन बातों या कार्यों को सुनिश्चित किया जाना आवश्यक है वह है कि

संरचना सबसे आवश्यक पहलू है। तथा पुराने अस्पतालों के भवनों का प्राथमिकता के आधार पर रेट्रोफिटिंग करना। इसके लिए सरकार सोशल रिस्पांसिबिलिटी फण्ड और संसद या विधायक निधि का प्रयोग सुनिश्चित कर सकती है। १ १

एंड कैपेसिटी'' एनालिसिस किया जाए। उसके

बाद एक बृहद एवं प्रभावी ''अस्पताल आपदा प्रबंधन कार्य योजना'' बनाई जाए। इस कार्य योजना में जिन बातों का विशेष ध्यान देने की आवश्यकता है वह हैं (1) प्रभावी एवं कुशल प्राथमिक सहायता (फर्स्ट ऐड) की क्षमता का निर्माण (2) नॉन–मेंडिको स्टाफ की क्षमता का निर्माण ताकि आपदाओं

सी भी आपदा के तुरंत बाद जिस सहायता की सबसे अधिक आवश्यकता होती सुनिश्चित करना एक महती जिम्मेदारी बन जाती है वह है बचाव कार्य और बचाये गए लोगों को तुरंत चिकित्सा सुविधा हैं। जरा कल्पना कीजिए कि आपदा के समय उपलब्ध करवाना। पूर्व में और हाल ही में आई आपदाओं में यह देखने को या तुरंत बाद जिसकी सबसे अधिक आवश्यकता मिलता है कि प्रशासन और सरकार के तमाम प्रयासों और इंतजामों के बावजूद है वहीं या तो धराशायी है या सहायता देने की

(विशेषकर बड़ी आपदाओं के बाद) वैसा हो नहीं पाता और संपूर्ण व्यवस्था में एक अस्तव्यस्तता या अव्यवस्था का माहौल रहता है। इसमें जो सबसे बड़ी कमी सामने आती है वह है तुरंत उपलब्ध की जाने वाली उत्कृष्ट श्रेणी की एवं कुशल प्राथमिक सहायता जिसके अभाव में बहुत सी जानें जो कि बचायी जा सकती थीं नहीं बच पातीं। सबसे साधारण प्राथमिक सहायता अर्थात घायलों को चिकित्सा शिविर तक पहुंचाना या फिर उन्हें सुरक्षित जगह तक ले जाना भी सही तरीके से न हों सकने के कारण या तो घायलों की स्थिति और खराब हो जाती है या वे गलत हैंडलिंग के कारण जान गवां बैठते हैं।

आपदा के बाद घायलों की संख्या में होने वाला अप्रत्याशित इजाफा अक्सर उस सबसे पहले इनका ''हैजर्ड, वल्नेरेबिलिटी , रिस्क क्षेत्र विशेष की स्वास्थ्य सुविधाओं की क्षमता से काफी अधिक होता है। इन परिस्थितियों में बाहर से आने वाले चिकित्सकों को या आपदा साइट पर ही लगाये जाने वाले चिकित्सा शिविरों के लिए बहुत से प्राथमिक सहायता (फर्स्ट ऐड) में प्रशिक्षित स्वयंसेवकों की भी आवश्यकता होती है। यह क्षमता अस्पताल के साथ -साथ कम्युनिटी के स्तर पर भी विकसित करनी होती है जिसका वर्तमान में नितांत



के समय वे मेडिको स्टाफ और डॉक्टर्स की सहायता कर सकें (3) आपदाओं के समय और पश्चात आवश्यक साइको–सोसिओ, जेंडर एवं रिप्रोडक्टिव हेल्थ केयर क्षमता का निर्माण (4) आपदा के बाद बूढ़ों और अपंगों की बच्चों जरूरतों के हिसाब से उनकी देखभाल करने की क्षमता का ''मेडिकल क्विक (5) निर्माण रिस्पांस टीमों'' का गठन और समु. चत प्रशिक्षण (6) ''बेसिक ट्रामा लाइफ सपोर्ट'' एवं ''एडवांस्ड ट्रामा लाइफ सपोर्ट'' में प्रभावी क्षमता का निर्माण (7) ''मास कैजुअल्टी मैनेजमेंट'' की क्षमता का निर्णाण (8) अस्पताल के इंसिडेंट कमांड सिस्टम'' को डेवेलोप करना। यह सब होने के बाद जो बात रह जाती है वह है अस्पताल की आपदा प्रबंधन कार्य योजना का जिले की आपदा प्रबंधन कार्य य4ोजना के साथ समन्वय करना या जोड़ना।

अंत में सबसे जरूरी बात। सभी नए अस्पतालों के भवनों का निर्माण उस क्षेत्र विशेष की हैजर्ड

66 आपदा के बाद घायलों की संख्या में होने वाला अप्रत्याशित इजाफा अक्सर उस क्षेत्र विशेष की स्वास्थ्य सुविधाओं की क्षमता से काफी अधिक होता है। इन परिस्थितियों में बाहर से आने वाले चिकित्सकों को या आपदा साइट पर ही लगाये जाने वाले चिकित्सा शिविरों के लिए बहुत से प्राथमिक सहायता (फर्स्ट ऐड) में प्रशिक्षित स्वयंसेवकों की भी आवश्यकता होती है। यह क्षमता अस्पताल के साथ –साथ कम्युनिटी के स्तर पर भी विकसित करनी होती है जिसका वर्तमान में नितांत अभाव है। भारत सरीखे देश में जो कि आपदाओं से अत्यंत प्रभावित है इस ओर ध्यान देने की तत्काल आवश्यकता है। अस्पताल के नॉन-मेडिको स्टाफ को भी इसमें प्रशिक्षित किया जाना चाहिए ताकि "मास कैजुअल्टी इंसिडेंट" के समय ये लोग भी मेडिको स्टाफ और डॉक्टर्स को घायलों की प्राथमिक सहायता या चिकित्सा में मदद कर सकें। १९

अभाव है। भारत सरीखे देश में जो कि आपदाओं से अत्यंत प्रभावित है इस ओर ध्यान देने की तत्काल आवश्यकता है। अस्पताल के नॉन–मेडिको स्टाफ को भी इसमें प्रशिक्षित किया जाना चाहिए ताकि ''मास कैजुअल्टी इसिडेंट'' के समय ये लोग भी मेडिको स्टाफ और डॉक्टर्स को घायलों की प्राथमिक सहायता या चिकित्सा में मदद कर सकें।

अब हम आते हैं सबसे जरूरी बात पर। आपदा के समय स्वास्थ्य केन्द्रों अर्थात अस्पतालों पर काफी दबाव होता है। यह दबाव एक तो मरीजों को स्वास्थ्य सुविधा उपलब्ध करवाने का होता है जो कि पहले से ही कम पड़ रही होती हैं ऊपर से अपनी और अपने परिवार की सलामती सुनिश्चित करने का भी दबाव होता है। अतः स्वास्थ्य सुविधाओं की क्षमता निर्माण करते समय एक ऐसी प्रणाली भी विक. सित की जानी चाहिए कि जो घायलों और मरीजों की देखभाल कर रहे हैं उनकी भी उन

अधिक क्षमता के साथ कर सकें जो कि उस वक्त की जरूरत होती है।

इमारतें'' (लाइफलाइन बिल्डिंग्स) कही जाती हैं। अतः इन इमारतों की सलामती या विधायक निधि का प्रयोग सुनिश्चित कर सकती है।

परिस्थितियों में सही देखभाल होती रहे ताकि वे अपना काम बिना किसी तनाव के प्रोफाइल या भूकम्प संवेदनशीलता के हिसाब से करना जिसमें भूकम्प रोधी संरचना सबसे आवश्यक पहलू है। तथा पुराने अस्पतालों के भवनों का प्राथमिकता के आधार स्कूल, अस्पताल और प्रशासनिक भवन आपदाओं की दृष्टि से ''जीवन रेखा पर रेट्रोफिटिंग करनाँ। इसके लिए सरकार सोशल रिस्पांसिबिलिटी फण्ड और संसद

ओद्योगिक इकाइयां : विकास जरुरी पर सम्हल के

श्व की सर्वाधिक खतरनाक और दिल इसके अलावा लाखों की संख्या में दहलाने वाली औद्योगिक दुर्घटना मध्यम और छोटी औद्योगिक 2—3 दिसंबर 1984 को भोपाल में इकाइयां हैं।

> औद्योगिक इकाईओं की जिम्मेदारी न केवल अपने कर्मचारियों की सुरक्षा की होती है बल्कि उन्हें आस–पास की आबादी की सुरक्षा का भी ख्याल करना होता है और इसके लिए उन्हें ष्ऑन–साइटष् तथा ष्ऑफ–साइटष आपदा प्रबंधन कार्य–योजना बनानी होती है। 2009 में जयपुर में इंडियन आयल के डिपो में आग लगी थी। इस दुर्घटना में 12 लोग मारे गए थे और 200 से अधिक घायल हुए थे। एक हफ्ते तक यह आग जलती रही और 5 लाख से अधिक लोगों को वहां से हटाया गया। यह हादसा इतना बढा था कि इसके विस्फोट से 3 किलोमीटर दूर तक खिड़कियों के कांच टूट गए थे।

सरकार द्वारा गठित एक समिति की जांच में यह पाया गया कि इस दुर्घटना का कारण था सुरक्षा उपायों में कोताही तथा मानव त्रुटि। समिति ने अपनी रिपोर्ट में इसे "घोर लापरवाहीष् बताया। अब यह कोई अपने किस्म की अकेली औद्योगिक दुर्घटना नहीं थी जिसका कारण लापरवाही और सुरक्षा उपायों में कोताही था। देश में होने वाली तमाम औद्योगिक दुर्घटनाओं के पीछे ये दो कारण अन्य कारणों के साथ–साथ अवश्य मिलेंगे। आखिर ऐसा क्यों? क्यों अपने देश में जान सस्ती है और माल महंगा ? क्यों उपायों के तमाम सुरक्षा

अभी जो भी मॉक–ड्रिल होते हैं वे इकाई की आपदा प्रबंधन कार्य योजना पर आधारित नहीं होते हैं। तथा ऑफ–साइट प्लान को टेस्ट करने के लिए मॉक–ड्रिल लगभग न के बराबर ही होते हैं। ऑफ–साइट मॉक ड्रिल में जनता की भागीदारी भी सुनिश्चित होनी चाहिए और उस औद्योगिक इकाई से संभावित सभी प्रकार के खतरों के बारे में और उनसे बचने के बारे में जनता को सतत जागरूक करना अत्यावश्यक है। भोपाल गैस कांड में यूनियन कार्बाइड का एक भी कर्मचारी नहीं मरा था जबकि बाहर 16000

दहलाने वाली औद्योगिक दुर्घटना 2–3 दिसंबर 1984 को भोपाल में घटित हुई जबकि यूनियन कार्बाइड फैक्ट्री से मिथाइल आइसोसाइनाइड गैस के रिसाव से 5.50 लाख लोग प्रभावित, 8000 लोग २ हफ्तों के अंदर तथा उसके बाद लगभग 8000 लोग और इस गैस के प्रभाव से मारे गए। देश में लगभग हर–दिन कोई न कोई औद्योगिक हादसा जरूर होता है चाहे वह छोटा हो या बडा। औद्योगिक आपदाएं अधिकांशतः मानव निर्मित होती हैं सिवाय इसके कि इन दुर्घटनाओं की जड़ में भूकम्प या सुनामी या कोई अन्य प्राकृतिक आपदा नहीं हो ।

औद्योगिक में देश इकाईओं में सुरक्षा से सम्बंधित व्यवस्थाओं को निर्देशित करने के लिए अनेक कानून बने हुए हैं । इनका सही कार्यान्वयन सुनिश्चित करना प्रबंधन की जिम्मेदारी होती है। औद्योगिक आपदाओं या दुर्घटनाओं से जान और माल के साथ-साथ प्रकृति , प्राकृतिक संसाधनों और पारिस्थितिक तंत्र को भी बहुत नुक्सान पहुंचता है। और कभी–कभी तो इन आपदाओं के दुष्परिणाम आने वाली कई पीढ़ियों को भुगतने पड़ते हैं जैसे कि भोपाल गैस कांड से हुआ था। 2010 तक देश में 1894 ''मेजर एक्सीडेंट्स हैजर्ड यूनिट्स' कार्यरत थीं। उसके पश्चात इस संख्या में इजाफा ही हुआ होगा।

वल्नेरेबिलिटी, रिस्क एंड कैपेसिटी एनालिसिस भी कहा जाता है। इसके बाद एक कारगर और व्यवहारिक आपदा प्रबंधन कार्य योजना बनानी चाहिए। यह कार्य योजना ऑन–साइट और ऑफ–साइट दोनों पहलुओं पर फोकस होनी चाहिए। सभी कर्मचारियों का समुचित और सही प्रशिक्षण होना इस पूरी योजना की रीढ़ है। अब एक और सबसे आवश्यक पहलू जो कि औद्योगिक इकाइयों और उसके आस–पास रहने वाली जनता को समझना चाहिए वह है एक व्यवहा. रिक और कारगर मॉक–डिूल फ्रेमवर्क।

ष्हैजर्ड, वल्नेरेबिलिटी, रिस्क एंड कैपेसिटी एनालिसिस भी कहा जाता है। इसके बाद एक कारगर और व्यवहारिक आपदा प्रबंधन कार्य योजना बनानी चाहिए। यह कार्य योजना ऑन–साइट और ऑफ–साइट दोनों पहलुओं पर फोकस होनी चाहिए। सभी कर्मचारियों का समुचित और सही प्रशिक्षण होना इस पूरी योजना की रीढ़ है। ?? दिशा–निर्देशों के बावजूद हादसों की वल्नेरेबिलिटी,

आपदा प्रबंधन की दृष्टि से सभी औद्योगिक इकाइयों

को सबसे पहले सेफ्टी ऑडिट करवाना चाहिए जिसे

दिशा–निर्देशां के बावजूद हादसां की जांच–पड़ताल में यह निष्कर्ष जरूर आता है जैसा कि इंडियन आयल के केस में हुआ।? इस सबकी जड़ में यदि आप जायेंगे तो पाएंगे कि दिशा–निर्देशों के कार्यान्वयन में घोर लाप. रवाही है और सुरक्षा से सम्बंधित अधिकांश दिशा–निर्देश कागजों में तो अवश्य पूरे हो रहे होंगे पर धरातल पर सिर्फ और सिर्फ एक बड़ा शून्य है।

आपदा प्रबंधन की दृष्टि से सभी औद्योगिक इकाइयों को सबसे पहले सेफ्टी ऑडिट करवाना चाहिए जिसे ष्हैजर्ड,





स्वाति सिंह क्लाइमेट एंड हाइड्रो—मेट डिजास्टर डिवीजन ग्लोबल एकेडेमी ऑफ पब्लिक सेफ्टी एंड हैबिटैट मैनेजमेंट नई दिल्ली। इंमेल—

 भोपाल गैस कांड में यूनियन कार्बाइड का एक भी कर्मचारी नहीं मरा था जबकि बाहर 16000 लोग मारे गए थे। ऐसा इसलिए हुआ क्योंकि बाहर की जनता को मालुम ही नहीं था कि यदि कभी गैस लीक होगी तो उससे कैसे अपनी जान बचानी है।

लोग मारे गए थे। ऐसा इसलिए हुआ क्योंकि बाहर की जनता को मालुम ही नहीं था कि यदि कभी गैस लीक होगी तो उससे कैसे अपनी जान बचानी है। अंत में एक जिम्मेदारी जनता पर भी आती है कि आस—पास की औद्योगिक इकाइयों से अलग—थलग न रहकर उनसे होने वाले खतरों के बारे में जाने और उससे बचाव के साधनों के विषय में भी जानने का प्रयास करें तथा प्रशासन पर दबाव भी डालें कि यह सुनिश्चित किया जा सके कि सभी औद्योगिक इकाइयों की आपदा प्रबंधन कार्य योजना दुरुस्त रहे।

Home & Habitat Safety

Initiatives on Building Community Resilience

Introduction

Geographically each part of India is vulnerable to some or the other disaster. So it is important to make Community Resilience. Community resilience is about to strengthen community with support of local resources, their unique knowledge to mitigate emergency in a way that complements the local emergency services.

Building community resilience starts from to create awareness that what type of risk they are in or community might face. How individuals can help themselves and group can help others at the time of need or emergency. So the community will be better prepared to cope during and after an emergency when everyone works together using their local knowledge. Things like understanding what requirements most-atneed groups may have in an emergency can make a real difference. Identifying and planning for the risks could help in reducing the potential impact as individual and the wider community. Being prepared and able to respond to an emergency can often help people recover more quickly.

There are many NGOs, self help group and much other organization who are already taking steps to pre-

pare community to cope with an emergency. It is important to document these initiatives and share this document with other communities who are into such type of risk. This will raise awareness and understanding amongst other communities, who may seek to adapt these to suit their own local need.

Objective

To find out ways and means of Building community resilience, we have to develop a case study to collect information that what technique local people are using to proRemove difficulties which ilar prevent participation in cominimunity resilience at local tialevel.

Methodology

Collect information related to particular disaster which tives planned? Will the learnaffects particular part of India. We need to create a Questionnaire. Questionnaire should include what initiatives community has taken and what impact it achieved. What were the key lessons learnt, Analysis what inspired the event? Why was it planned? Who was involved? Summary of stake-

Local emergency responder and stakeholders meet regularly and discuss their resources, strength, what they need to improve what is the planning etc. It is also important to identify other risk in local area, for example road is broken, Big hole, drainage is open etc which should be either avoided or get modified before it becomes more risky. We also need to

include other aspects like.

tect themselves and spread those technique to all the communities through pamphlets, drama, and training etc.

- Improve resilience as individual, family, and community against all threats, emergency.
- Support and enable initiative of local community and help to disseminate these initiatives in other areas.

holders, partners) what were the problems? How were they tackled? How did you solve the problem? What resources were needed /time taken? What were the outcomes? What was the impact? Positive and negative results; Any evidence of impact? What could have been done better? Evaluate conclusions regarding the initiative. What are the next steps? Are any other sim-

"



ing be reviewed? After collecting all the information, we need to document and prepare a brochure then disseminate this information in a systematic manner.

1-Identifying and preparing for risk

In order to build community resilience, individual and communities should prepare for the risk.

Local emergency responder and stakeholders meet regularly and discuss their resources, strength, what they need to improve what is the planning etc. It is also important to identify other risk in local area, for example road is broken, Big hole, drainage is open etc which should be either avoided or get modified before it becomes more risky.

We also need to include other aspects like

A-Social Risk:- Vulnerable people groups in the area. Like old age people, children. handicapped, People who are in different sector of hospital, people who don't access to



Community level training programs



Community Involvement in CBDRM exercise



9

Initiatives on Building Community ...

transport, people who are having a such as travelling communities.

B- Environmental Risk :- Are there any

Supplies:- In the emergency we language problem, transient group require food, water and shelter. Volunteer who are willing to work should discuss the community and list out those people



Community capacity building

environmental risk, for example any area which is flooded regularly, or facing drought problem or any other kind of problem. Information also needs to be collected if there is any site which has a historic importance or scientific interest.

This risk gency. C-Infrastructure risk:include whether there is major transport hub in the area. Are there any bridges or main road which needs strengthening, Any large industrial site which might come under disaster prone area and needs to be plan.

2-Assessing community skills and resources

Very important to build the community resilience are to know the skills of the community and what are the resources as individual, group and community has. Skills of the community should be assesed under the following categories

Volunteers: - Many communities and individuals automatically come forward to help others during time of need. What are the skills they are having; list should be prepared along with their contact number and expertise. Volunteer should be trained and aware with a emergency planning.

Tools:- List has to be prepared about what tools and machinery might be needed during an emergency. Responsibilities have to be assigned to those who are qualified, capable, expertise area, and willing to operate these tools and machinery in an emergency.

who are ready to provide support and supply during an emergency.

Shelter:- Community has to identify a safe place which is safe in disaster and can be used as a shelter. It is also important to complete all the formalities to use their building as a shelter during emer-

trained how to use walky talky and setup Amateur radio station and group so the volunteer can communicate to a local people as well as stake holders without interruption.

First aid: it is very important. sustainable Community should be trained for First aid, development.

which help to save so many People. If not possible to train all the community at least responder need to learn these first aid techniques.

Reviewing and updating plan:-

It is important to regularly review and update community emergency plan to meet the changing need of community. It is also important that plan should work during an emergency for that we need to do exercise and this allow to identify problems, remove these problem and regularly update contact list to ensure it is accurate.

Conclusion

Building community resilience is process which needs a lot of initiatives and support of local leadership. Local leader need to be supported and encouraged to take responsibility to develop community resources, volunteers. Most successful communities are those who join hands with diverse range of resources and include more and more individuals. Group and communities with better connectivity and communication form a more resilient community - a community more able to respond and adapt to future challenges. It also highlights how new ideas need to be made locally relevant and considerable Communication:- People need to be care and time is needed to embed them. If we take good life initiative and right kind of practical support, communities can take on more responsibilities, can take local decision and encourage environmentally and resilient



Community Training at Delhi

Serene Himalaya! Is It? ओम शांतिः शांतिः

मालय विशाल, अडिंग, शांत, गंभीर आदि आदि न जाने कितने विशेषण और उपमा अलंकार हिमालय के साथ जुड़े हुए हैं। परन्तु अब लगता है कि हिमालय खुद भी अपने इन विशेषणों से उबा हुआ लग रहा है और किसी तरुण की तरह अंगड़ाई लेकर पूरी दुनिया को कुछ नया करना और दिखाना चाह रहा है और इसमें कुछ जल्दी बाजी में भी लग रहा है।

अभी कश्मीर भूकम्प, सिक्किम—नेपाल भूकम्प आदि स्मृति पटल से गायब भी नहीं हुए थे कि नेपाल भूकम्प ने पूरी दुनिया को हिला दिया और नेपाल विनाश के अवशेष अभी पूरी तरह से हटाये भी नहीं गए थे कि फिर अफगानिस्तान—पाकिस्तान क्षेत्र में एक और विनाशकारी हलचल।

हिमालय क्षेत्र में सिर्फ भूकम्प ही नहीं वरन अन्य हलचलें भी एक के बाद हो रही हैं जैसे कि वर्ष 2013 की केदारनाथ तबाही, कश्मीर बाढ़, लेह बाढ़ आदि। इन सब से पहले की भी अनेकों त्रासदियां। मानों एक बच्चे की तरह हिमालय क्षेत्र दुनिया का ध्यान अपनी और आकर्षित करने के लिए कुछ नया हरदम और हरपल करना चाह रहा हो। फ्रीक्वेंसी भी बढ़ गयी है।

अब अगर हिमालय यही चाह रहा है कि हम उसकी ओर पर्यटन , दोहन और शोषण के अतिरिक्त अन्य एंगल से भी देखें तो हमें उसका इशारा समझना पड़ेगा अन्यथा हमारी उपेक्षा इस विनाश लीला को और भी भयावह रूप में सामने ला सकती है।

थोड़ा एक्सपर्ट्स की दृष्टि से देखते हैं :-

"We know there is a huge amount of accumulated strain in this area. It is due for a major earthquake, perhaps a series of earthquakes, bigger than 8 on the Richter scale. That is the kind of energy that is estimated to be accumulated there. This was certainly not one of those earthquakes that is probably imminent. In terms of energy release, I would say this would not have released even four or five percent of the energy that is estimated to be stored there," --Mr Harsh K Gupta, former director of the Hyderabad-based National Geophysical Research Institute and a former member of the National Disaster Management Authority-in an interview to Indian Express after Nepal Earthquake.

"This earthquake would only be classified as medium in terms of energy released. That area, the 2500-km stretch from the Hindukush region to the end of Arunachal Pradesh, is capable of generating much bigger earthquakes, even nine on Richter scale,"-- Prof Sankar Kumar Nath of IIT Kharagpur, who has studied seismic activity in the Himalayan region in an interview to Indian Express after Nepal Earthquake.

"The lesson, once again from this earthquake, is that we need to adapt and plan and prepare ourselves for these earthquakes. More than 90 per cent of the destruction that is caused by the earthquakes is avoidable if we plan for it. An earthquake of magnitude 7.5 is routine in Japan but no one dies there, no property is damaged. We can also do it. There is no knowledge gap. We know exactly how to do it. The buildings have to be constructed in a certain fashion; habitations have to be settled in a particular manner. All this is very well known,"--- Ajay Paul of the Dehradunbased Wadia Institute of Himalaya Geology, after Nepal Earthquake.

हम इस चर्चा को आगे ले जायेंगे लेकिन सिर्फ हमारे अपने दृष्टिकोण से नहीं वरन सभी पाठकों के दृष्टिकोण से भी। अतः जो कोई भी इस खुली चर्चा का हिस्सा बनने का इच्छुक हो वह हमें हमारी ई—मेल emag.gapsham@gmail.com पर अपने विचार भेजें। अपना संछिप्त परिचय और पासपोर्ट साइज फोटो भी जरूर भेजिए। हम इन सारे विचारों को अपने अगले अंकों में शामिल करके इस चर्चा को वृहद बनाना चाहते हैं और अंत में इन सारे विचारों और उपायों को भारत सरकार तक पहुँचाने का दायित्व हम निभाएंगे ताकि हिमालय क्षेत्र के विषय में भविष्य में बनने वाली किसी भी कार्य योजना में इनका उपयोग हो सके।

We wish to take this discussion forward through the readers. So whosoever wishes to be the parts of this discussion just send your views/inputs/suggestions to our e-mail-ID

"emag.gapsham@gmail.com". Do not forget sending your brief CV (2 lines) and a passport size photo (jpeg format) along with your inputs for incorporation in next issues of this e-magazine. We will publish those inputs in our next issues and also will send all suggestions/inputs on this vital topic to Govt of India so that any future plans regarding Himalayan region may be prepared by taking clues from these inputs/suggestion as well.

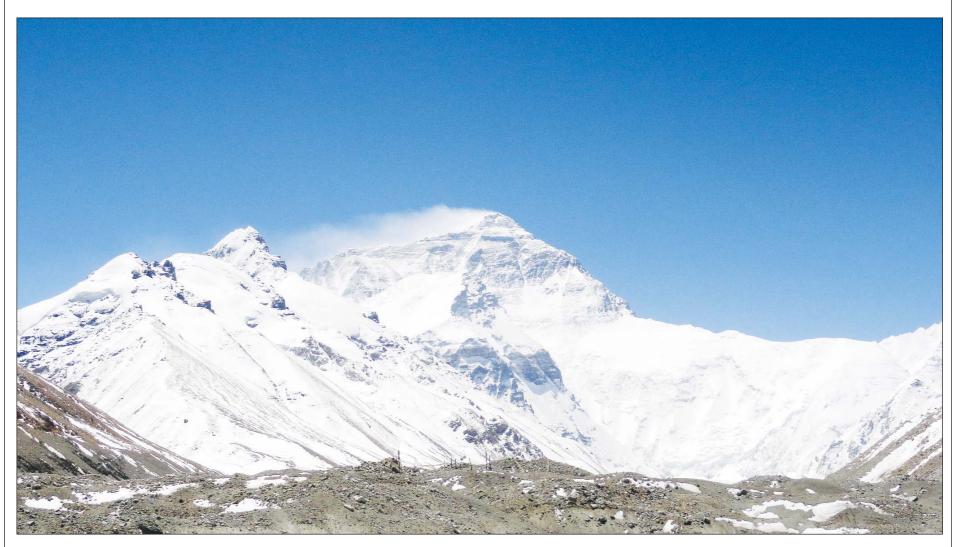


Photo : Shri Sanjay Kumar (IAS)

Launch of

"Adhunik Vishwakarma"

A Campaign for Masons Training on Earthquake Resistant Construction

G lobal Academy of Public Safety & Habitat Management (GPASHAM) recently launched a campaign to train masons in the country on earthquake (hazard) resistant construction. The campaign was formally launched on 14 Oct 2015 at Allahabad, the world famous city in Uttar Pradesh in presence of District Magistrate Allahabad, Mr Sanjay Kumar who took initiative in this direction and supported the ambitious task by formally inaugurating the campaign from the city of "Sangam" and "MahaKumbh".

training program first will be taken up in all 31 districts of Uttar Pradesh falling under seismic zone-IV. Then in second phase, all cities in Uttar Pradesh shortlisted to be made "Smart Cities" by Govt of India, shall be the focus point of this training. This campaign will not only concentrate on training of masons but also on the awareness generation drive among the citizens wherever this training program shall be held. 9 9

The launch program was made some sort of a workshop for masons. 156 masons were present in the workshop and interacted very freely with Dr Chandan Ghosh, Head. Geo-Hazard division, National Institute of Disaster

M a n a g e m e n t (NIDM), Ministry of Home Affairs, Govt of India. Dr Chandan Ghosh gave a



Mr Sanjay Kumar, District Magistrate, Allahabad (in the centre on dais) in Adhunik Vishwakarma launch program on 14th Oct 2015

detailed presentation to masons on some common techniques on earthquake resistant construction of houses. He also replied numerous queries of masons in detail through photographs, movies and



sketches on paper. Mr Saurabh Gautam, CEO, GAPSHAM gave a brief presentation on the overall working of the GAPSHAM and also on the Adhunik Vishwakarma campaign process & phases.

Mr Sanjay Kumar, District Magistrate, Allahabad, on this occasion, while interacting with the masons and other participants, came out with his mind on this important exercise for the benefit of the people of Uttar Pradesh and emphasized on the need of such program on a sustainable basis. He very categorically pointed towards the on-field training to

masons in batches and assured all his support to this campaign. On the occasion he even felicitated a female mason present in the workshop who is the first ever female mason in the district.

Dr Chandan Ghosh interacting with masons during the workshop. Mr Sanjay Kumar, District Magistrate on the dais.

All masons who will undergo the

designed training program on earthquake resistant construction by GAPSHAM, shall be awarded with a certificate honoring them with title "Adhunik the Vishwakarma". This training program first will be taken up in all 31 districts of Uttar Pradesh falling under seismic zone-IV. Then in second phase, all cities in Uttar Pradesh shortlisted to be made "Smart Cities" by Govt of India, shall be the focus point of this training. This campaign will not only concentrate on training of masons but also on the awareness generation drive among the citizens wherever this training program shall be held.

Mr Sanjay Kumar, District Magistrate, Allahabad felicitating female mason. In the background is Dr Chandan Ghosh.







Flagging of the "Smart City; Smart Citizen" rally in Bareilly on the occasion "World Disaster Risk Reduction Day" on 13th October 2015. The rally was organized by "Dainik Jagran" newspaper and "GAPSHAM" was part of this awareness generation drive in the city concentrating two aspects: Disaster Risk Reduction and Environment Friendly city.





14

From the desk of "Angel Typhoons"

The Final Message

grey sky, a shroud oppressing, hangs above as dawn gives to light Not a trace of the bright blue sky remains, To tell the people how it was once so bright

Even the sun seems fuzzy, the air like mist, The smoke closes around like the devil's fist All devices tried, all balms applied But nothing seems to be getting it fixed

What has gone wrong?' the thought arises We had but left the Earth to its own devices. Why isn't it feeling like it used to before, though the waves still bang across the shore?

Nature's song, unheard, unsung For centuries has remained on parchment Five millennia since Rome, and three since Chrome

Yet nature endures mankind's torment

In this future world, in the city of cities That rose up to choke the land The concrete monsters hold us with in Miles and miles from soft warm sand

That grew our food once seems useless now For the screws do all the making Photosynthesis has become artificial, And all we want is for our taking.

Though many rejoice at the new found knowledge There are some things that we miss The smell of rain and warmth of sun Oh! What wonderful feelings

Sadly, it's been a long time Since the face of Earth was happy Now it's crying and dripping around And feeling rather too snappy

And now, the Earth's going to disintegrate All life will be destroyed The crust will break, the mantle shake And the world become a void

'this quite a sad prospect we face

But this we must accept That it was us who did this to the Earth With our high heads and deep concepts

Can something be done? Of course it can, But a steep price must be paid Back in time when it all began, Foundations must be laid

If you read this, you are lucky For you have seen the future Stop the acts that harm the land, Let mother Earth be your tutor

Spread this message far and wide Let people know what becomes of them And perhaps you be the turning point Of our precious blue-green gem

This is the future, with all its hopes Resting in this final letter Our fate was bleak, but perhaps, just perhaps Next time it will be better.

> -Ashwin Kumar , Rosary School, Delhi

The First Responder's Contribution

The Power...

et the aqua blues swish and splash Let the fish and dolphins flip and flap Let the birds soar high tweet and chirp Let the clear blue skies be flakes and fluffs The Power to let that happen rests with you and me

Let the green grass shake and sway Let the cool breeze whisper and caress Let the golden flush proclaim a cheerful morn Let the glittery stars herald of another new dawn The Power to let that happen rests with you and me Let the shimmering rivers rush and gush Let the winding hills lush and blush Let the myriad flowers bloom and swoon Let the flittering butterfly pause and woo The Power to let that happen rests with you and me

Let the planet face no being's continuous blunder Let mankind halt this raid and plunder Let progress and environment be partners that care Let the bounties of nature be responsibly shared The Power to let that happen rests with you and me

Sapna Bakshi, Faculty, Suncity School, Gurgaon

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