



भूकम्प प्रविधि
राष्ट्रिय समाज-नेपाल

Earthquake Safety

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Involving the Communities in Disaster Risk Management

Community participation has been recognized as an additional element in disaster management to reverse the global trend of increasing loss and frequency from disasters, to build a culture of safety and disaster resilient communities as well as to ensure sustainable development for all.

Keeping this in mind, NSET has been working with several communities at ward level by helping them to install Pre-Positioning Emergency Response Stores (PPERS) at various communities, providing trainings at community level in close collaboration with municipalities, local communities, rotary clubs, and international donors. NSET has also assisted Nepal Red Cross Society (NRCS) to implement Kathmandu Valley Earthquake Preparedness Initiative (KVEPI), which included imparting training program and in locating pre-positioning of emergency response stores in the wards. NSET has also been working with UNICEF and Lalitpur Sub-Metropolitan City to pre-position contingency water supply for emergency and to prepare a general Disaster Preparedness and Response Plan for Lalitpur Sub-Metropolitan City. The project: **Community Based Disaster Management Program in Kathmandu Valley**, is a logical continuation of such efforts and is also piloting some concept of preparing implemental detail disaster preparedness plan for emergency response at ward level so that the work can be replicated to all wards in Kathmandu Valley. Further, as there will be already disaster preparedness and response framework at municipal

level, the ward level detail plan can be linked to it. Moreover NSET is helping to enhance the capacity of municipal officials to implement different programs run by municipalities. After successful implementation of Community Based Disaster Management Project (CBDMP) of NSET with support from UNDP in six districts outside the Valley, replication of such activities would be the best idea to make communities safer in the cities too. In this background such programs will help to implement community based disaster preparedness activities in the future.

The project: **Community Based Disaster Management Program in Kathmandu Valley**, was implemented by NSET with the financial support of Oxfam GB, Nepal. The program was implemented in the selected 5 wards (6, 8, 12, 18, and 20) of Lalitpur in close collaboration with the Lalitpur Sub Metropolitan City (LSMC). The main aim of the project was to enhance the security of vulnerable communities through appropriate capacity building measures (awareness campaigns, trainings) and institutionalization of the process in the local governance system to guaranty the sustainability of such projects. The overall objective of the project was the formation of Ward-Level Disaster Risk Management Committee (WDMC) in selected five wards of Lalitpur Sub-Metropolitan City and the capacity enhancement of WDMC and volunteers to design and implement disaster risk reduction and preparedness activities. And its specific objectives were – capacity building in communities and institutions to design and implement disaster risk reduction strategies and preparedness activities; enhancement of capability of municipal staffs/ward DMC members/volunteers and representatives concerning disaster risk reduction,



Observing the vulnerability during the field visit

preparedness and effective response; and the institutionalization of Disaster Risk Management (DRM) initiatives at the two levels of local governance (Ward Level as well as Municipality Level).

To meet its objectives, various activities had been carried out as follows;

Consultations and meetings with municipal authorities and direct participation of municipal representatives in carrying out all activities of the project

Orientation and training program for community representatives during Ward assemblies

Formation of Ward Level Disaster Management Committees (WLDMC) in the selected wards of LSMC for monitoring and managing the volunteers' activities, updating the database for disaster preparedness and cooperating with municipal authorities to coordinate vulnerability and risk reduction activities at ward and community level.

Disaster Management Training: A seven-day Disaster Management Training for community was held during 13 - 19 May, 2007 in Lalitpur. The training was organized jointly by

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Participants during the DM training

Lalitpur Sub-Metropolitan City (LSMC) and NSET under the project CBDMP-K. Thirty volunteers representing the five different wards and the municipal officials participated in the training.

Vulnerability and Capacity Assessment (VCA) Trainings/Workshop: After the successful completion of Disaster Management Training, 3 days VCA training/workshop was held under the project. The training was conducted from May 30 - June 1, 2007 in Lalitpur.

Vulnerability and Capacity Assessment (VCA) Field Study: Following the VCA Training, an extensive/detailed field study on VCA methodology and exercise for community volunteers was conducted from 6 - 12 June 2007. The study was conducted for the detailed assessment of the community in disaster risk assessment and capacity assessment perspectives.

Action Plan Workshop: A three day Action Planning Workshop was held at Haakha Tole Community Building near Mangal Bazar, Ward 12 of LSMC from 13 - 15 July, 2007. The Action Planning Workshop was for the preparation of Ward Level Disaster Response /Mitigation/ Preparedness Plan.

Outcome

The project successfully implemented all planned activities achieving all tangible/intangible results. Some of the tangible achievements of the project are: Five Ward Level Disaster Risk Management Committees (WDMC) formulated (Ward 6, 8, 12, 18 and 20). 330 community members got oriented on disaster safety, 30 ward level disaster management committee members and community volunteers were trained on community based

disaster risk management, 30 community volunteers were trained on participatory vulnerability and capacity assessment, Detail vulnerability and capacity assessment of all five wards was carried out and maps were prepared, Information on household level were collected and analyzed, Ward profile of ward 20 was prepared, Action plan for disaster risk management of ward 12 was prepared, and about 33,000 people had direct/indirect interaction on disaster risk management during door to door data collection and interaction through community volunteers.

Moreover, there are several outcomes

of the project which are difficult to measure in numbers. The involvement of municipality staff in all the process which helped to internalize the process in the municipal system can be regarded as one of the key achievements of the project. Others include the increase of awareness level of community people and knowledge about the potential disaster/threats around. Further the process methodology and approach taken by the project was found helpful to institutionalize disaster risk management approach in municipal and ward level and to establish/revive disaster safety culture in communities.

REGIONAL TRAINING PROGRAM

Sub-regional Master Instructor Workshop - Bacolod, Philippines

PEER conducted a Master Instructor Workshop for Indonesia and the Philippines on July 1-5, 2007 in Bacolod, Philippines. The workshop was held at the Amity Public Safety Academy (APSA) with regional MIW facilitators from Bangladesh, Indonesia, Nepal, and Philippines. PEER also invited two key partners from Pakistan to observe the workshop.

The Opening Ceremony on July 1, 2007 was held at the Pana-ad Park / Stadium in Bacolod, in conjunction

with the kick off of the Philippines National Disaster Consciousness Month.

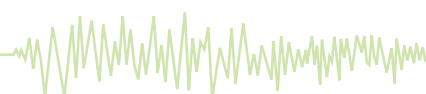
The workshop produced 24 new Master Instructors for PEER in Indonesia and the Philippines, who are now eligible to serve as course coordinators and monitors in their respective countries. The next sub-regional MIW for Bangladesh, India and Nepal will take place in mid September in Kathmandu, Nepal.

PEER EVENTS CONDUCTED DURING (April-July) 2007

Events	Event Level	Date
Bangladesh		
MFRIW	In-Country	April 01-05
CSSRIW	In-Country	April 10-16
India		
MFR	National	April 02-14
CSSR	National	April 18-25
Nepal		
HOPE	Self Funded	June 12-15
Pakistan		
MFR	National	April 02-14
MFR	National	April 17-29
HOPE	National	May 19-22
H-TFI	National	June 23-27
TFI	National	July 14-18
MFRIW	National	July 21-25
Philippines		
MIW	Sub-Regional	July 1-5

NSET INTERN / VOLUNTEER

- Senior JICA Volunteer, Mr. Yoshikiko Koori joined NSET on April 2007 as a Disaster Risk Management Advisor (Volunteer) for a period of two years from April 2007 – April 2009. Mr. Koori will be working with all Technical Directors and contribute his expertise to NSET activities.
- Ms. Brigitte M. Balthasar (Catastrophe Analyst - Allianz Global Corporate & Specialty North America) joined NSET as an Intern for a period of three months (June – August 2007). She is assisting in the activities under the Emergency Response and Preparedness Division of NSET.



Capacity Building and Knowledge Management: Institutionalization of Earthquake Preparedness in School of Earthquake Affected Areas of Pakistan (CBKMP)

With funding support from UN-ISDR, NSET implemented the project in close collaboration with Focus Humanitarian Assistance Pakistan (FOCUS) and Aga Khan Education Services, Pakistan (AKES, P) during November 2006 to April 2007. The overall goal of the project was to contribute to building resilience of communities to disasters through capacity building of teachers and students in earthquake affected areas in Pakistan. The specific objectives were three-fold a) to introduce the knowledge and skills on earthquake-resistant construction of new and

seismic retrofitting of existing school buildings in Gilgit and Northern areas of Pakistan by undertaking pilot demonstration program in each areas and conducting appropriate training for masons and school operators, b) to enhance earthquake awareness among the school system and institutionalize disaster preparedness and response planning, especially on seismic risks (on actions and measures to be taken before, during and after earthquakes, and development of safe school program, including check lists, evacuation drills, and so on, c) to undertake a comparative research of



Participants of the Training on Earthquake Preparedness for school teachers in Pakistan

lessons-learnt and best practices in the aftermath of earthquake rehabilitation and reconstruction process in India, Iran, Turkey and Pakistan.

Case Station and Field Campus (CASiFiCA)

NSET and Disaster Prevention Research Institute (DPRI) of Kyoto University, Japan had signed a Memorandum of Understanding for the establishment of Case Station and Field Campus (CASiFiCA) at Tsukuba, Japan on March 1, 2006. The goal of CASiFiCA is to conduct action research in the field of disaster mitigation and disaster preparedness in five countries including Nepal and extend the cooperation for similar collaborative work at regional and international levels. NSET, naturally very attracted by the CASiFiCA concept had decided to take part in such international initiative as a logical step in its quest for making the country safer from earthquakes in the shortest possible time. The objectives of program are two-fold: Help institutionalize disaster risk education based on national/regional necessities and demands on academic education and researches, Provide academic assistance to the initiatives on disaster risk management by government, non-government or financial institutions and private sector by starting NGO-College collaboration on joint researches and implementation.

The projects to be included in CASiFiCA would be projects implemented by NSET or by a joint endeavor of NSET and Kathmandu University (KU) or those implemented

by NSET and KU in partnership with other government or non-government organizations. The projects can be basically categorized as: Project for critical assessment if the impact of earthquake risk management works being done by NSET in the past decade in Nepal, Project for critical assessment of a program such as the School Earthquake Safety Program (SESP), and the Project for critical assessment of the progression of disasters risk management works in a particular geographical or administrative area of Nepal.

Some of the major achievements of the program so far are;

- A curriculum on Disaster Risk Management (DRM) has been developed and delivered by NSET for the Kathmandu University, Masters Degree Program for Environmental Studies. Every year classes on DRM are conducted for a group of students of the Masters' Degree Program (1st Year) for a period of six months under a 3-credit program. This year also there are five students under the program.
- One of the five students of above mentioned KU Program has completed his Master Degree Thesis on "Survey and Analysis of Health Institutions of Kathmandu

Valley" in terms of their disaster preparedness and emergency response capacities. An assessment on hospitals of the Kathmandu Valley with the focus on the capacity to respond during disaster was carried out as a part of M.Sc. thesis work from June to mid July 2006.

- A curriculum for a Masters Degree Program on Disaster Risk Management has been developed jointly by the Nepal Engineering College (NEC) and NSET through a participatory process along with the involvement of other academic institutions.
- Mr. Koichi Shiwaku of the University of Kyoto has completed his PhD Thesis research on the process of knowledge management and Implementation of Disaster Risk Reduction. The research has provided much opportunity to the student to understand the process of DRR in Nepal and the region.

CASiFiCA, though a new program, the concept is working and is found to be useful. It has enhanced the link between NSET and DPRI/Kyoto University and has helped NSET to be at par with the current global understanding and concepts on DRR and use the knowledge in designing and modifying its own national and regional programs.

Upon request from Disaster Prevention Research Institute (DPRI), Kyoto University, Mr. Bijay Krishna Upadhyaya, Earthquake Technology Training Specialist of NSET is on visit to Japan for a period of three months from July 5 to October 4, 2007 to work with DPRI, Kyoto University as a Visiting Researcher. The major objectives of his visit are:

a) share with them his and NSET's experiences and success practices in Nepal, b) jointly engage in Case Station-Field Campus (CASiFiCA) research

activities, learn from their scientific methods and tools to promote community-based participatory approaches for disaster reduction in Japan, c) visit and study some of local challenges made by the research partners in Nagoya, d) learn from the experience of what the NGO Rescue Stock Yard (RSY) in Nagoya has been doing and aimed at.

Further in his stay he would participate and learn from the various activities of RSY, attend meetings, workshops and also attend Japan CASiFiCA



During the meeting held at Rescue Stock Yard office in Nagoya

Seminar at Yoshida Campus, Kyoto and engage in Case Station-Field Campus (CASiFiCA) research activities.

TECHNOLOGY TRANSFER

On- the-Job Mason Training through School Earthquake Safety Program

The School Earthquake Safety Program (SESP) of NSET has been implemented with maximum participation of the central and local government institutions, school management committees, parents and the students. In the process, different means are incorporated to transfer the technology to community grass- root level. The whole execution of the project is designed as a tool for



Mason involved in school retrofitting

reasons behind it. This method avoids the improper reasoning and judgments made by masons in the ground of their previous knowledge and level of thinking. However indigenous knowledge and effective techniques gained from their long experiences are duly considered and employed to the best possible. It makes them work as usual practice, in highest precise level. It is all in the form of on-the-job-training. Besides that, separate training courses about construction are also conducted in form of classes at the respective schools. Although the target group are the craftsmen of the village but everyone interested could join the training.

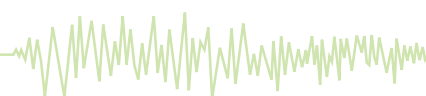
The training courses follow hierarchical procedure starting from problem identification to the testing of methods learned. The training are basically in form of interaction including speeches, photographs display, presentation of slides and drawings in overhead projectors, field visit to place where such methods are being employed and practical exercises. Attention is paid to the level of trainees' knowledge and perception capability while presenting any items during training. Once weak points of prevailing construction are described and consequences are presented through photographs of past earthquakes, it definitely strikes trainees' mind and so they start to mull over it. Solutions are explored from their side and shaped to standard techniques. All the

knowledge and skill are backed by practical real structures in school retrofitting and earthquake resistant new construction. Several tests are conducted to support the knowledge in relation to effect of placement of reinforcement rod in beam/slab, quality of work governed by material and workmanship like excess water effect, curing effect etc. Based on the



During the training

experiences gained from the mason training, a curriculum/guideline for Mason Training has been prepared. Further, it is seen that new constructions in the settlements surrounding the schools are incorporating seismic-resistant elements, mostly by consulting the masons trained during SESP. A strong replication potential of the program concept, the transfer of technology and hence sustainability of efforts, is thus evident.



ORIENTATION PROGRAMS

Orientation Program on Earthquake Risk Reduction and Preparedness

April, 2007: On request from British Embassy of Nepal, National Society for Earthquake Technology–Nepal (NSET) conducted an orientation program on earthquake preparedness for the staff members of British Embassy.

May, 2007: An orientation program on earthquake preparedness was conducted for the representatives of Embassy of Denmark/Norway/Finland at Hotel Shangri-La, Lazimpat, Kathmandu.

May, 2007: An orientation program on earthquake preparedness was conducted for the staff members of Department of Water Induced Disaster Preparedness (DWIDP).

June, 2007: An Orientation program on earthquake preparedness was conducted for the staff members of Concern World Wide-Nepal.

July, 2007: NSET professional made presentation on "Earthquake Risk and its Preparedness" in the District level



Attending the orientation lecture

coordination workshop organized by 'Samuhik Abhiyan' at Staff College, Jawalakhel.

CONFERENCE / WORKSHOPS

(April 2007 - July 2007)

Month / Year	Conference/ Workshops	Venue	Participation
April	WHO consultation Workshop on "Coordinated Work for Disaster Risk Reduction and the Preparedness of Health Facilities in Urban Settings" organized by WHO-Kobe Centre, 16 April, 2007	Japan	Mr. Ramesh Guragain
May	Seminar on the theme of "Community Based Disaster Risk Management" organized by Japan Bank for International Cooperation (JBIC) in Kobe Japan (7-8 May)	Japan	Mr. Amod M. Dixit
June	"Global Platform on Disaster Risk Reduction" organized by ISDR from 5-7 June 2007 in Geneva, Switzerland	Switzerland	Mr. Amod M. Dixit
June	Asian Conference on DRR organized by Government of Kazakhstan, Government of Japan in association with UNISDR, UNDP and ADRC Japan (25-27 June 2007) in Astana, Republic of Kazakhstan	Republic of Kazakhstan	Mr. Ram C. Kandel
June	Consultation meeting/workshop on Pan-Himalayan Study on Indigenous Technology of Earthquake-Resistant Construction of Historic Buildings (PAHSIB) at Delhi on 25th of June 2007	India	Mr. Ramesh Guragain
July	First DRH Facilitator Meeting in Japan (2-3 July)	Japan	Mr. Amod M. Dixit
July	"Regional Workshop on Building Risk Knowledge: Experience in Risk Assessment from the Region, and "Enhancing Applications of Disaster Loss Database" organized by UNDP/Bangkok, June 28 – 30, July 2-4, 2007 in Bangkok/ Thailand	Thailand	Mr. Ganesh K. Jimee

ACTIVITIES / NSET BRIEFS

International Conference on Earthquake Risk Management (ICERM) in Islamabad, Pakistan



Rt Honorable PM of Pakistan and Mr. Dixit with other dignitaries at the conference

An International Conference on Earthquake Risk Management (ICERM) was organized during 28 – 30 April 2007 in Islamabad, Pakistan. ICERM was organized jointly by Earthquake Reconstruction and Rehabilitation Authority (ERRA) of

the Government of Pakistan, United Nations International Strategy for Disaster Reduction (UN/ISDR), United Nations Human Settlements Program (UN Habitat), UNDP Pakistan, United States Agency for International Development / Office of the Foreign Disaster Assistance (USAID / OFDA) and National Society for Earthquake Technology - Nepal (NSET). Although the conference was organized jointly, NSET was given the main responsibility for design, overall management and day-to-day activities related to the conference.

The three day conference was divided

into five plenary sessions and a field trip to the earthquake effected areas and reconstruction sites of Pakistan. The conference was wrapped up after a formal closing ceremony in auspices presence of the Rt. Honorable Prime Minister Mr. Shaukat Aziz, the Chief Guest of the ceremony. Other dignitaries present in the ceremony were Mr. Altaf Muhammad Saleem, Chairman, ERRA, Lt. Gen. Nadeem Ahmed, Deputy Chairman, ERRA, Mr. Salvano Briceno, Director of United Nations International Strategy for Disaster Reduction (UN/ISDR) and Mr. Amod Dixit, Conference Convener and Executive Director of NSET.

The conference was aimed at sharing Pakistan's Experiences in Response, Early Recovery, Reconstruction and Rehabilitation with Global Communities. The conference was participated by the representatives of all stakeholders, government, non-government, academia, private sectors and almost all disciplines were represented from hardcore engineers and seismologists to sociologists and media persons. Altogether 40 papers

were presented under 8 different themes. The Conference deliberated on all issues of earthquake risk and earthquake response after the 2005 October Earthquake and the reconstruction and rehabilitation works underway in Pakistan including the approaches and strategies. It also deliberated on the needs and course of action for disaster risk reduction in Pakistan including the efforts towards establishment of policy, legal and

institutional frameworks at Federal and Provincial, Tehsil and District Levels.

Overall, the conference was a great success participated by more than 200 national and international participants representing the Government, Municipalities, INGOs, NGOs, Academic Institutions and Private Sectors. It in-fact became a common platform for sharing experiences in earthquake risk reduction and responses of the whole region.

Developing the National Strategy for Disaster Risk Management (NSDRM) in Nepal



During the sectoral workshop

NSDRM- Sectoral Workshops

National Society for Earthquake Technology-Nepal (NSET) has provided technical assistance to UNDP in assisting the Government of Nepal in preparing the National Strategy for Disaster Risk Management (NSDRM) based on Hyogo Framework of Action (HFA) in Nepal. In this regard, 8 different sector specific workshops were organized jointly by the Ministry of Home Affairs, respective Ministries, UNDP and NSET. The aim of the workshops was to introduce the Hyogo Framework for Action (HFA) 2005-2015 and its component, review existing capacities, policies and programs in the sector and come up with recommendations to be

incorporated into the draft strategy. The workshops were participated by the representatives from government agencies, community organizations, non government organizations, international organizations, UN agencies and the private corporate sectors. The workshop focused on sector specific issues and disaster preparedness.

SWOT analysis exercise was conducted during all eight sectoral workshops where the five groups (Government, Donors, NGOs/ INGOs, Private, Community) worked on the five priority area of the stipulation of the HFA as applicable to Nepal. For each of the five HFA priority areas, the participants were asked to complete a SWOT analysis; Identify priority actions based on SWOT; Define requirements/ strategies for implementation of priority actions.

Thus these workshops resulted in the accumulation of sector specific priority actions and strategies for implementation, as well as wide discussion of existing Disaster Risk Management (DRM) initiatives,

identification of important gaps and focus areas and renewed commitments on the part of all sector stakeholders to disaster risk reduction, preparedness and response.

NSDRM- Final Sharing Workshop

In this process of developing the strategy document, several consultation meetings were organized, national inception workshop followed by eight different sectoral workshops were conducted. Representatives from the central and the local government, donor agencies, national and international organizations, I/NGO, UN agencies, corporate bodies and hazard prone communities were part of these consultations. On the basis of these interactions, a draft of the National Strategy for Disaster Risk Management was prepared and a final sharing workshop was organized on Friday, 29th June, 2007 in Hotel Radisson, Lazimpat, Kathmandu, to solicit the comments and suggestions on this document from the different stakeholders who have directly or indirectly contributed for the disaster risk reduction in Nepal.

Other Activities

- Mr. Varun P. Shrestha, Senior Technical Advisor and Mr. Ramesh Guragain, Director, Earthquake Engineering and Research at NSET participated in the workshop organized by the Japanese Student Association Nepal at Hotel Himalaya, Pulchowk, Lalitpur on 4th April 2007. In the workshop Mr Guragain made presentation on the use of P-P Band Technology for earthquake resistant construction.
- Senior Officials from USAID, Mr.

Mike Hess, Chief Administrator, DCHA, USAID, Washington D.C, Mr. Bill Berger and Ms. Sue McIntyre, Regional Advisors from USAID/OFDA visited NSET and also to the program activity sites in the valley on 5th of April 2007 to observe the works carried out by NSET.

- Mr. Ganesh K. Jimee, Division Manager, Emergency Response and Preparedness at NSET attended the 27th National Seminar of Nepal Junior/Youth Red Cross conducted at Shree Public Higher Secondary School, Dharan, Sunsari

from 20 to 21 April 2007. Mr Jimee addressed the inauguration session on behalf of NSET and made presentation on "Earthquake Preparedness and Response: Role of Youths". The program was organized with the participation of central members of NRCS, ICRC, UNICEF and other organizations. The program was fruitful as the message of earthquake, consequences, preparedness, response and the role of youth was delivered to about 200 participants representing from 54 districts of the country.



- A team of experts from NSET visited Dhaka, Bangladesh on 23rd April 2007, to provide technical assistance for the Shake Table Demonstration in Dhaka, Bangladesh. The demonstration held on 21st May 2007 was organized by UNCRD Japan, Bangladesh Disaster Preparedness Centre (BDPC) and NSET.
- On request from UNICEF, NSET professionals organized a Vulnerability Tour (V-Tour) of the Patan Area for the DIPECHO/ECHO officials, who were in Nepal for a workshop on April, 2007. The tour was mainly focused on vulnerability of buildings and the route to exit in case of emergency/disaster.
- Mr. Varun P. Shrestha, Senior Technical Advisor and Mr. Ram C. Kandel, Director School Earthquake Safety Program at NSET attended two days workshop on Contingency Planning organized by UN- OCHA at Hotel Dwarika's, Battispatali from 4-5 June, 2007.
- Mr. Sujan Rai from NSET participated in the Training on

Flood Search and Rescue (SAR) conducted by Action Aid in Rupandehi and Makawanpur during 9-21 April, 2007.

- National Society for Earthquake Technology-Nepal (NSET) participated in the one day "USAID's Share Fair" event held on 5th June 2007 at its office premises, Ravibhawan. The event was organized to celebrate 50+ years of USAID in Nepal and all the USAID partners were invited to participate in the one-day 'Share Fair' which profiled USAID history, projects and achievements, and current programs. Guests of the event included the diplomatic and donor communities, I/NGOs, Government of Nepal officials and other VIPs and media. There were more than 30 partner stands, each highlighting their programs and achievements.
- NSET Officials met with Mr. Ky Luu, Director of OFDA/USAID, Mr. Jeff Drumtra, Policy Advisor on International Displacement Protection, USAID/ DCHA/ OFDA and Ms. Sue McIntyre, Regional Advisor from USAID/ OFDA on 9th June 2007 where

Mr. Amod Mani Dixit, Executive Director of NSET briefed them and made presentation on NSET activities.

- NSET celebrated its 14th anniversary amidst its staff, board members and well wishers at the NSET office premises on 18th June 2007.
- Mr. Ramesh Guragain, Director, Earthquake Engineering and Research, NSET attended a national workshop organized by Nepal Engineers' Association in Bharatpur, Chitwan on 30th June, 2007 and made presentation on the National and International Policy on Disaster Risk Management , "HFA and Its Adoption in Nepal with Reference to Disaster Scenario in Chitwan District".
- Mr Surya Pd. Acharya, Civil Engineer, NSET, participated in the Orientation Program/ half day mini training program on "Earthquake and Safety Measures to be Safe from Earthquakes" organized by The Prosperous Nepal Organization at FNCCI Building, Teku on 17th June, 2007 as a resource person from NSET.

TRAININGS



Briefing during practical exercise

- On the job training on earthquake resistant building construction (First Phase) was provided for the masons, laborers and teachers of Mahendra Shanti School, Balkot, one of the schools under the School Earthquake Safety Program (SESP) of NSET on 26th April, 2007 and similarly the second phase of the training was conducted on 17th May 2007.
- NSET provided technical assistance for conducting three days mason training program organized by the Department of Urban Develop-

ment and Building Construction (DUDBC), Kavrepalanchowk Division and Sakha Toresteel, Sakha Steel Industries at Dhulikhel, Kavre, from 3 – 5 June 2007.

- National Society for Earthquake Technology-Nepal (NSET) on request from Itahari Municipality provided technical support to conduct five days masons training program at Itahari from 2-6 June 2007. Two of the engineers from NSET conducted the masons training program. There were altogether 35 participants, mostly local contractors from Itahari Municipality.
- Ms. Hima Shrestha, Mr. Sanju Sharma from NSET participated in the HOPE training course organized by IOM, MOHP held in Hotel Manaslu, Kathmandu as an Instructor from NSET from 11 - 15 June, 2007.
- National Society for Earthquake

Technology-Nepal (NSET) in association with Department of Urban Development and Building Construction (DUDBC) organized a "Building Damage Assessment Training" to the engineers of Department of Urban Development and Building Construction (DUDBC) from July 2-4, 2007 at DUDBC, Babarmahal, Kathmandu.

- Mr. Sujan Rai from NSET, participated in the Flood Search and Rescue (SAR) Training held in Nepalgunj, Banke district under DRR project organized by Action Aid International Nepal as a resource person from NSET from 26 June - 1st July, 2007.
- Under the Community Based Disaster Management Program of NSET two 5-day Disaster Management and Leadership Training Program for Women and a 5-day training program on Disaster



Participants involved in the training

Management Capacity Building for Municipalities were conducted during June 2007 for the participants from the 6 municipalities of CBDM project.

- Under the project “**School Earthquake Preparedness Program in Jhapa, Rautahat and Kathmandu Valley**” implemented by NSET in association with Lutheran World Federation (LWF), ‘School Teachers’ Training of Trainer on School

Earthquake Preparedness’ for the teachers of Jhapa and Rautahat districts was completed in April 2007.

Similarly, the remaining training programs on Earthquake Resistant Building Construction for the technicians of Kathmandu Metropolitan City, Bhadrapur and Gaur Municipality have also been completed in April 2007. The trainings were a part of the project “**Earthquake Safe Construction Skill Training for Masons and Construction Technicians**” implemented by NSET in association with Lutheran World Federation (LWF), Nepal. In addition, a series of Self Builders’ Training on Earthquake Resistant Buildings was also organized by NSET/ LWF for the Disaster Management Team of LWF. Both the training programs implemented by NSET in association with Lutheran World Federation (LWF) were coordinated by Mr. Binod Shrestha Geotechnical Engineer at NSET.



Earthquake Awareness Calendar

One of the bottom-up approaches that NSET has implemented towards building code implementation is the publication of the Earthquake Awareness Calendar. As in the previous years, this year also NSET published the calendar with support from Action Aid Nepal. The calendar encompasses the simple earthquake resistant building construction technique and some other nonstructural issues, which can be understood by the common people. Many municipalities, inside and outside the valley, are now using the calendar in spreading the earthquake safety message. The increasing involvement of the municipalities has further raised the demand of the calendar.

QUAKE MONITOR

Year	Magnitude	Location	Deaths
1/4/07	8.1	Solomon Islands	40 people killed, about 300 homes, schools and a hospital destroyed, about 500 houses damaged
13/6/07	6.7	Offshore Guatemala	Some houses damaged in the Guatemala City area
15/7/07	6.6	Honshu/Japan	Nine people killed, at least 1,088 injured, 875 houses damaged, roads and bridges damaged

Source: USGS

TIPS ON EARTHQUAKE SAFETY

During earthquake if you are indoors

- **DROP** to the ground; take **COVER** by getting under a sturdy table or other piece of furniture; and **HOLD ON** until the shaking stops. If there isn't a table or desk near you, cover your face and head with your arms and crouch in an inside corner of the building.
- Stay away from glass, windows, outside doors and walls, and anything that could fall, such as lighting fixtures or furniture.

PROFILE

Mr. Surya Narayan Shrestha

Deputy Executive Director
National Society for Earthquake
Technology – Nepal (NSET)



Mr. Surya Narayan Shrestha joined National Society for Earthquake Technology – Nepal (NSET) in 2001 as a Structural Engineer. Since then, he is involved in various earthquake disaster mitigation activities undertaken by NSET. During Mr. Shrestha’s professional service as Structural Engineer with NSET, he had served as Program Manager for Municipal Earthquake Risk Management Program of NSET (2003-2006), Team Member for Seismic Vulnerability Assessment of Hospitals in Nepal (Feb 2003- Dec2003), other various projects and as a Director for Urban and Community Based Disaster Management Division (2006-2007).

In addition, Mr. Shrestha has served as one of the key members of the team for Capacity Building Programs that NSET had implemented in earthquake affected areas of Pakistan with support from UNDP (Nov 2005 – Jan 2006). Besides, he had also served as Team Leader for Training Support for Earthquake Reconstruction and Rehabilitation Program implemented by NSET in Pakistan with support from OFDA/USAID (Feb 2006 – June 2007).

He holds a Master Degree in Structural Engineering in 2003 and Bachelor Degree in Civil Engineering in 1998, both from Tribhuvan University, Nepal. Before joining NSET Mr. Shrestha worked as Quantity Surveyor with Impregilo SpA Company for Kaligandaki ‘A’ Hydropower Project (1998-2000). Mr. Shrestha has provided expert professional services as a consultant to national institutions on various disaster risk management issues. He has authored various technical reports and publications. He is also a member of Nepal Engineer’s Association and Nepal Engineering Council.

Mr. Shrestha has been promoted to Deputy Executive Director of NSET, effective from June 1, 2007. He has been supervising and giving guidance to all technical professionals of NSET involved in various projects being implemented by NSET.

A Nepali Citizen, Surya Narayan Shrestha was born on October 30, 1973 and is happily married.

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Radio Sagarmatha (FM 102.4) at 7.30 PM, Tuesday
Radio Annapurna (FM 91.8) at 7.30 AM, Wednesday

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National Society for Earthquake Technology-Nepal (NSET)

1133 Devkota Sadak, Mahadevsthan, Baneshwor,
P.O. Box: 13775, Kathmandu, Nepal
Tel: 977-1-4486444, 4490359, Fax: 977-1-4490943,
Email: nset@nset.org.np