National Workshop on Flagship 1: School Safety

Update and Progress Report on flagship 1 School Safety

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FLAGSHIP PROGRAM FOR DISASTER RISK MANAGEMENT (DRM): (In 2009 A.D.)

Flagship 1: School and Hospital Safety

Component A: School Safety (ADB & Ministry of Education).

Components:

- 1.Structural and non structural vulnerability assessment of school building in Kathmandu valley
- 2.Physical retrofitting and seismic strengthening of school building
- 3. Awareness raising on constructing resilient structures

Progress on SESP Assessment Preliminary Survey >1800 Under open DRI of the World Bank and Qualitative assessment, 236 Under SESP of the prepare priority list, DoE including 15 identify buildings to be buildings retrofitted retrofitted or dismantled in 2011 (with 57 135/236 buildings by ADB Quantitative through NSET and assessment remaining consultants)

Progress on SESP							
Retrofit design							
S. No	Details	No. of Buildings	Remarks				
1	Retrofit design of school buildings of the Valley	15	Under SESP of the DOE from the TA ADB through NSET in 2011				
2	Retrofit design of school buildings of the Valley		43 buildings Under SESP of the DOE in 2012, 7 buildings from NSET				
3	Retrofit design of school buildings (136 buildings in the valley and 35 out of valley)	20/171	50 buildings being designed by NSET under ADB TA and 121 buildings through consultants by the DOE in 2013				

Implementation of Structural Retrofitting S. No. No. of Remarks					
	Details	Buildings			
1	Retrofitting of school buildings of the Valley	15	Completed in 2011 Under SESP of DOE and TA from the ADB through NSET		
2	Retrofitting of school buildings of the Valley	50	Retrofitting of 23 buildings completed and 27 buildings at the final stage, under SESP of the DOE		
3	Retrofitting of school buildings (136 buildings in the valley and 35 out of valley)	171	Will be completed by the end of 2013		
4	36 school blocks destroyed by Sikkim earthquake is completed.	36	A DFID funded programmed under RAP		

S. No	Details	No. of Schools	Remarks
1	Non-structural vulnerability reduction (Bhaktapur, Nuwakot and Rasuwa)	55	Under Disaster Preparedness for Safer Schools in Nepal by NSET & NRCS supported by American Red Cross
2	Earthquake Preparedness/ drill Program (Kathmandu Valley and 8 districts of the eastern region)		With the support from UNICEF/ NSET and implemented by the DOE/RED/DEOs

Progress on SESP Capacity Building

Engineers Training

- 3 Days Vulnerability Assessment: 33
- 5 Days Retrofit Design: 33
- 5 Days Training for Masters Instructors on Seismic Retrofitting: 32
- 3 Regional Workshops/yearly (3 days)

Involvement of Private Consulting Firms

Progress on SESP

Masons Training



- 54 Masons Trained on the Job
 120 Masons trained through 5 days training on Retrofitting
- Only trained masons on New Earthquake Resistant Construction
- Retrofitting practice on Real School Building

One Lead Trained Mason is Required for Each Building for Retrofitting
Under TA from ADB and AusAID through NSET

Progress on SESP Teachers Training ToT for 81 RP (54 in KV + 27 Outside KV) 2580 Teachers Trained at RC level Orientation to 12,000 teachers from 1215 Schools from 11 Districts DOE/NSET RP1 RP2 Sdays Instructors Teachers Training RC Level 3 days Orientation to Teachers/Students Objective: Preparation of Emergency Response Plan of Schools and Drill Supported by UNICEF and NSET

Progress on SESP

Orientation to Students

- About 243, 000 students are provided with 1 day orientation with support from UNICEF and NSET
- About 500 Teachers and students are provided with 1 day orientation in coordination with Mahila Sichhak Samaj
- Yearly Students Summit





Progress on SESP Contingency Plan

 Contingency Plan of 21 flood vulnerable districts in terai and 3 districts of Kathmandu Valley have been prepared with the financial assistance of UNICEF and Technical assistance of UNICEF



year wise Plan for Implementing SESP

		Total Need	Year					
	Total Need	2011	2012	2013	2014	2015	2016	
Retrofit	KV	700	15	50	136	140	200	159
	Nepal	About 49,000			35	145		

Training: 1050 masons; 4,000 teachers; 50,000 students orientation



Challenges and Strategy to Overcome Private Consulting Firms are Encouraged Number of Experienced Proto-type design for New **Professionals** Construction Design Cost Proto-type Design Manual for • Design time Retrofitting is under development Steering/Technical Committee for Overall Guidance and Review Individual Buildings are Continuous Training to all Assessed, Analyzed and Stakeholders including Private sector Designed Collaboration with DUDBC, NSET and Academia • Limited Professionals • Time Consuming Problem of

Challenges and Strategy to Overcome

- 3. Quality Implementation
 - Quality Construction
 - Time
 - Difficulty in mobilization of Fund from Community
 - Awareness and Capacity Building
- Large/complex Buildings through contracting process (about 20%)
- Sufficient budget in case of retrofitting
- Trained engineers for supervision (separate training only for retrofitting supervision)
- Minimum of one trained mason in one site
- Community mobilization and orientation

Challenges and Strategy to Overcome

4. SESP Implementation in Private Schools

Standardization

Design Quality

 Orientation through PABSON/N-PABSON to all private schools

Private Firms

 Conduct Preliminary study and give existing status to private schools

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Expert Institutions

- Regulation policy (Assessment/retrofitting of existing and safe new construction)
- Awareness to Parents to demand safer schools

Challenges and Strategy to Overcome

- 5. Coordination
 - Many programs in structural and Nonstructural implementation by different organizations
 - Specially, software components are being implemented by many organizations
 - Standardization of Training and Awareness
 - Standardization of Designs/drawings

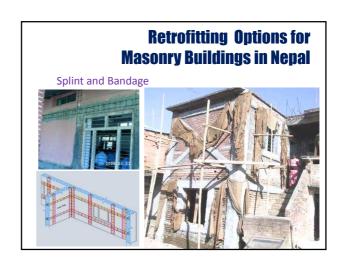
- Coordination with DUDBC and Local Governance System
- Coordination among Flagships (NRRC to play more role)
- Promote using standard prototype designs by DOE
- Promote using DOE published training curricula
- Common awareness messages
- Common reporting format and mechanism

Challenges and Strategy to Overcome

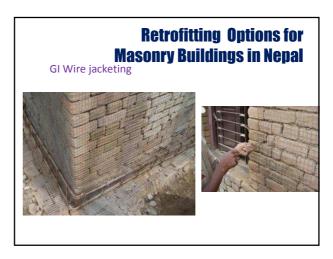
6. SESP still to fully Institutionalize

- Still in project mode
- Total need assessment (Vulnerability Assessment) and preparation of time bound action plan
- National Strategy for SESP prepared but still to be formalized
- Convert to the program mode
- Implement National Strategy for SESP to develop time bound Action Plans
- Survey of all school buildings in Nepal

Some Glimpses of SESP Implementation



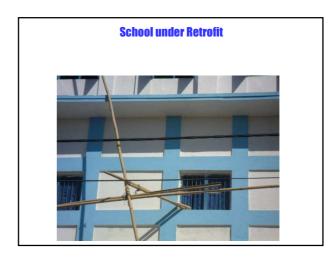




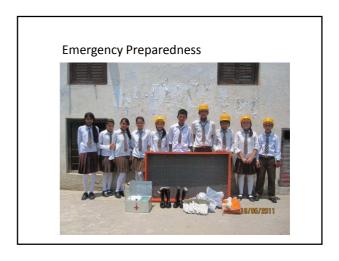
















Thank You!	