

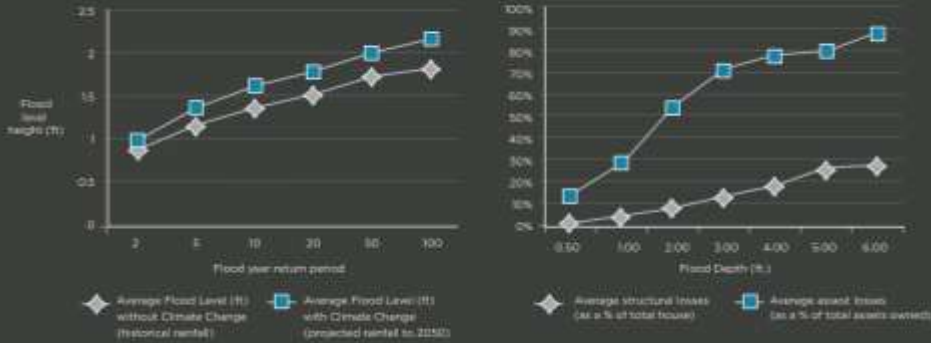


KEY MESSAGES

- Cost effective compared to disaster recovery
- Costs below current construction practices
- Design and material innovations
- Educating and empowering builders



Climate Analysis



Community Risk Reduction Options



- Raised plinth
- Hook on roof
- Almira construction
- Concrete shelf



Key Characteristics of Resilient Design



- Rat Trap Bonds
- Arches
- Jali Walls
- Raised Plinth
- Sloping Roof



Design competition –India



CONSTRUCTION DETAILS AND CLIMATE RESPONSIVE STRATEGIES_1



Investigation of Costs & Benefits

Risk Reduction Measure	Without Climate Change	With Climate Change
Almira Construction	0.54	0.62
Concrete Shelf	2.24	2.61
Hook on Roof	42.44	49.49
<i>Resilient Housing Design</i>		
Additional cost to build a climate resilient house with reinforced concrete cement	1.0	1.2
Additional cost to build a climate resilient house with bamboo reinforcements	44.7	49.5



Impacts expected

- Community benefits
 - Health and security benefits to women and children
 - Reduced impact on livelihoods
 - Improved savings and living quality
- Govt and other organizations
 - Improvement in relief and rehabilitation efforts
 - Reduction in recurring expenditure on housing



Policy Implications

- **Household**
 - Climate resilient designs are cost effective
 - Health and security benefits to women and children
- **Public Policy**
 - Access to affordable finance
 - Training of builders/masons
 - Investment into development of materials and technologies
 - Government housing programs good entry point

