

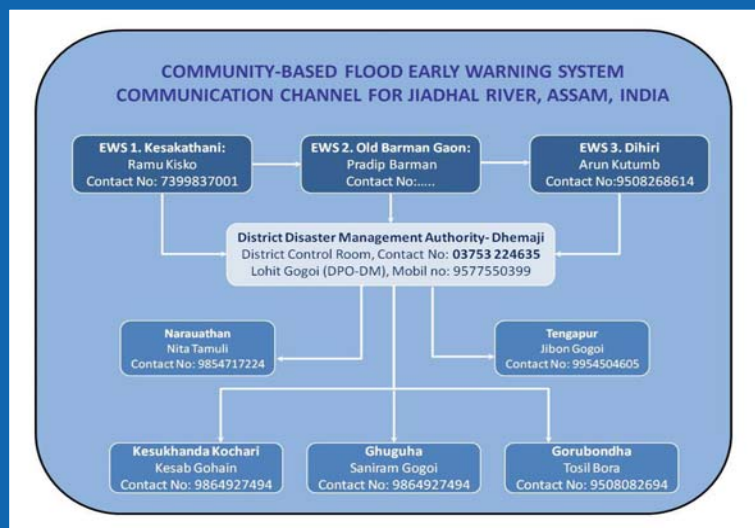
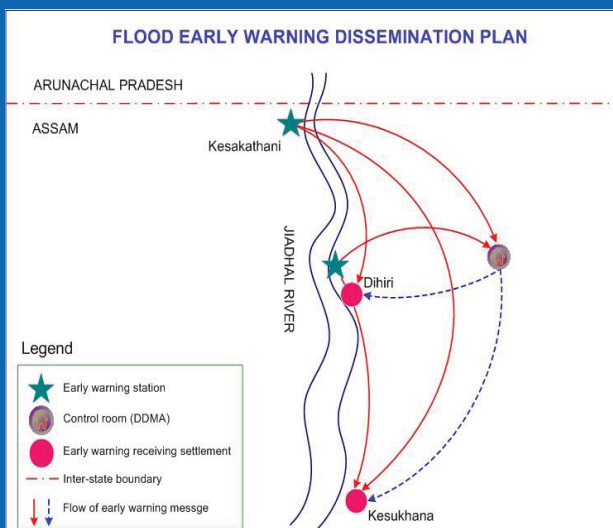
Global Award Wining Activity

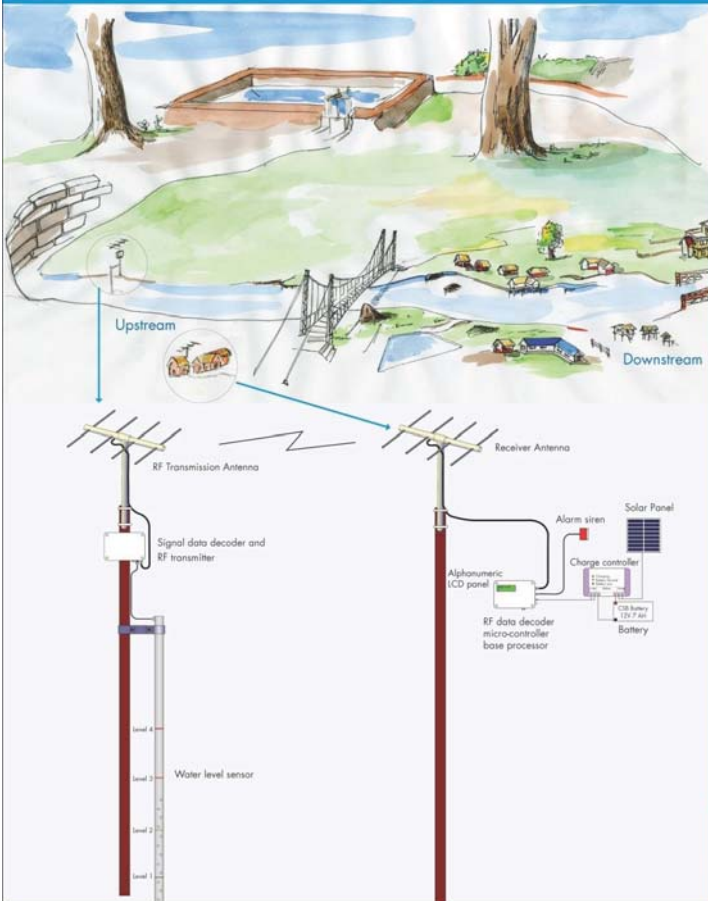
Community Based Flood Early Warning System in Assam, India

Dr Arun Bhakta Shrestha
 Neera Shrestha Pradhan
 Sagar Ratna Bajracharya
 Narendra Bajracharya
 Sundar Kumar Rai

International Centre for Integrated Mountain Development
 Kathmandu, Nepal

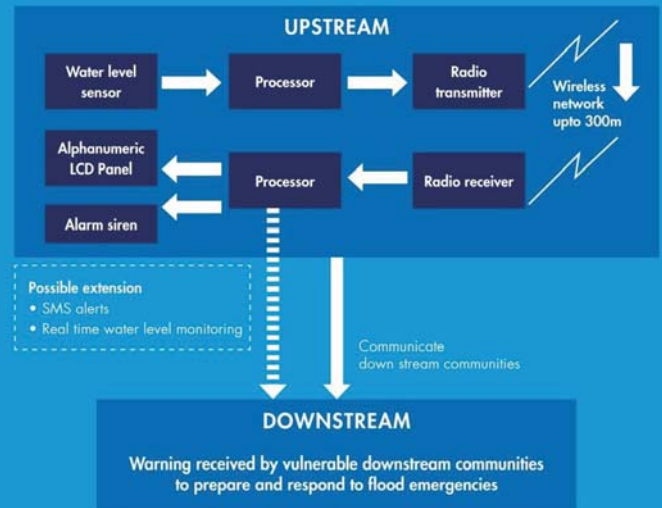
Framework/Approach





Community-Based Flood Early Warning System (FEWS)

A community-Based FEWS is an integrated system of tools and plans that are prepared and managed by the communities to detect and respond to flood emergencies. The flood signal is transmitted to the receiver using wireless technology and communicated to all those at risk in vulnerable downstream communities. A properly designed and implemented system can save lives and reduce property damage by increasing the time to prepare and respond to the threat of flood.

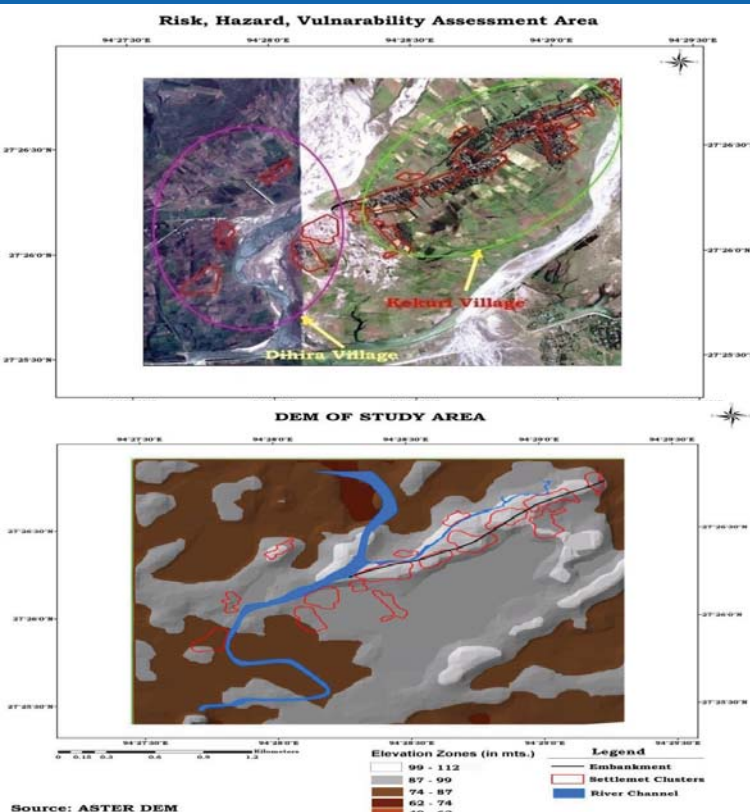


Manufactured by: Sustainable Eco-Engineering, Patan (Mahendra M Shakya, 9849406171) with design and guidance from ICIMOD
 Supported by: Himalayan Climate Change Adaptation Programme (HiCAP), funded by Norway, for installation in flood prone sites in Assam and Arunachal Pradesh of the Eastern Brahmaputra sub-basin, India

Risk, Hazard and Vulnerability Assessment (Dihiri & Kekuri)

Vulnerability Score		
1.	Less Distance from Embankment	1
2.	High Distance from Embankment	2
3.	High Altitude	1
4.	Low Altitude	2
5.	High Distance from river	1
6.	Less distance from river	2

Highly Vulnerable:		
	High Distance from Embankment	2
	Low Altitude	2
	Less distance from river	2
Moderately Vulnerable		
	High Distance from Embankment	2
	High Altitude	1
	Less distance from river	2
Less Vulnerable		
	Less Distance from Embankment	1
	High Altitude	1
	High Distance from river	1

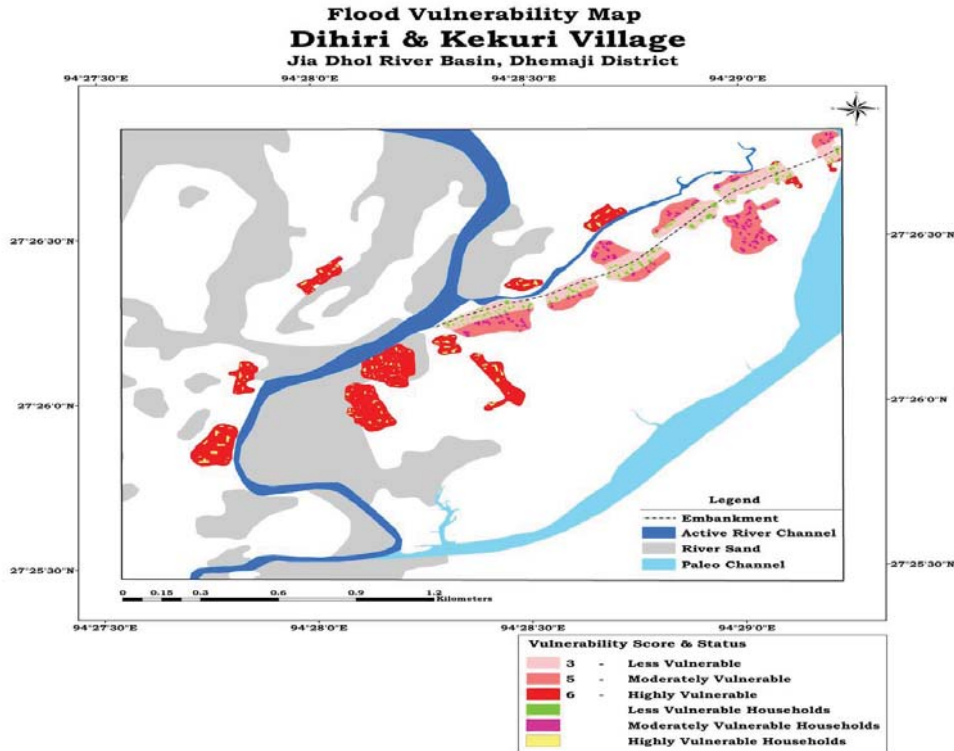


Source: ASTER DEM

Flood Vulnerability Map of Dihiri & Kekuri Village, Jiadhah River

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Awareness Raising

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1st Version of EWS Equipment



Control units inside the house



2nd Version of EWS Equipment

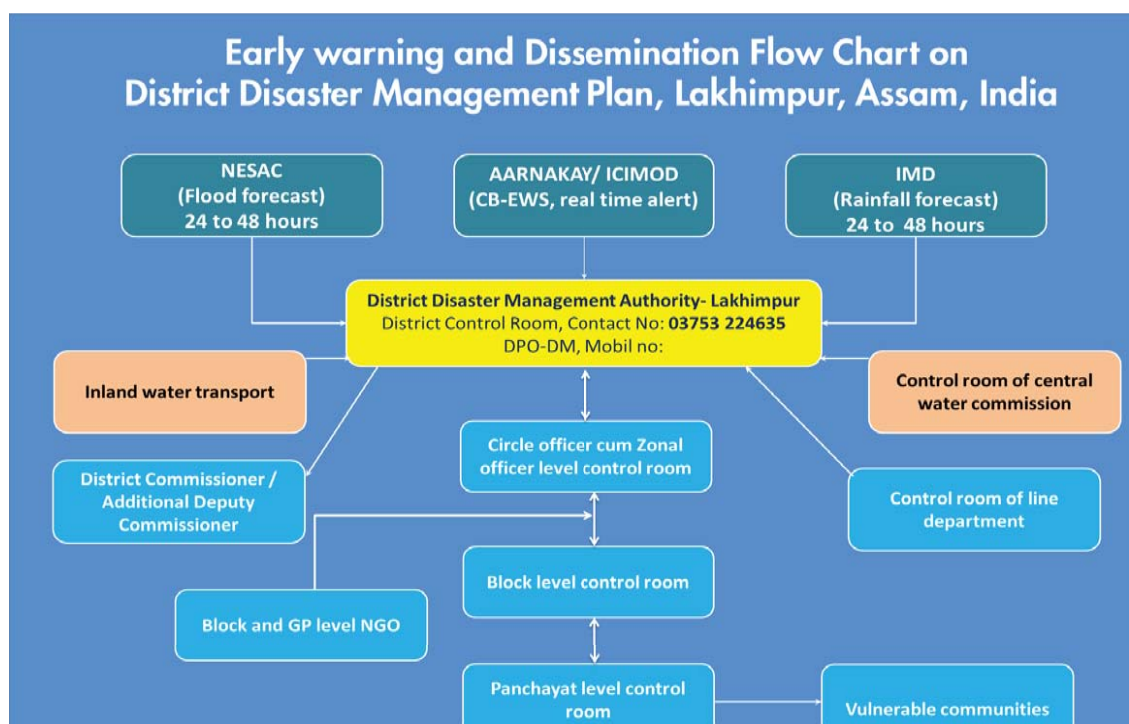
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3rd Version of EWS Equipment



Future Communication and Dissemination Structure of EWS



Involved Organizations

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- ICIMOD
- SEE, Nepal
- Aaranyak, India
- DDMA, Lakhimpur District and Dhemaji District, Assam, India

CBFEWS recognized by UNFCCC's Momentum for Change: 2014 Lighthouse Activity Award in COP 20, Lima, Peru

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