



CDEM Resilience Fund project application form

*This form provides the minimum of information for the application; a **detailed project plan should be developed to inform this application** and may be attached.*

Project title		East Coast LAB: Tsunami Safer Schools Preparedness Guide
Date of application		30th September
Details on application		
Applicant		Hawke's Bay Regional Council (as the Administrating Authority of the Hawke's Bay CDEM Group)
CDEM Group/s affected		Hawke's Bay, Wellington, Manawatu-Wanganui and Gisborne
Other local authorities, Groups or organisations supporting this proposal		Ministry of Education, Napier City Council, Massey University, Gisborne District Council, GNS Science, NIWA, EQC, Greater Wellington, Natural Hazards Research Platform, QuakeCoRE and University of Auckland
Project description		
Executive summary [200 words maximum description.]		
<p>Many schools along the East Coast of New Zealand face a significant risk from tsunami, and need to know how to prepare and respond, especially to natural warning signs to ensure the protection of children during the event of a tsunami.</p> <p>The objectives of this project are to identify all early childhood education centres (ECECs) and schools along the East and South Coasts of the North Island of New Zealand that are located within tsunami evacuation zones, develop a 'Tsunami Safer Schools' toolbox & pilot this toolbox at schools in Gisborne, Napier & Wellington. The toolbox will then be made available in the form of a guidebook nationally. The toolbox will build on existing resources developed by the Ministry of Civil Defence and Emergency Management (MCDEM) e.g. What's the Plan, Stan? and East Coast CDEM groups eg. Wellington Region Emergency Management Office's (WREMO) blue line's project.</p> <p>The project centres on the development of a toolbox for ECECs & schools to facilitate their journey in becoming a tsunami-safer school. It will draw on research undertaken by leading scientists and will include a guide on best practice, templates for preparing response procedures, communicating to families & other agencies, information sheets for parents & teachers and guidelines to carry out yearly tsunami evacuation walks. It will provide the best CDEM guidance for schools to mitigate their tsunami risk including processes involved in preparedness planning and resources for schools.</p> <p>The multi-agency project includes the East Coast CDEM groups, Ministry of Education (MoE), GNS Science, Massey University and has support from all East Coast LAB project partners.</p>		
Challenge/opportunity [200 words maximum description.]		
<p>When there is a natural hazard, children are among the most vulnerable especially those who are at school when the disaster strikes. Tsunami inundation is known to be a significant hazard for much of the New Zealand coastline, and CDEM has an ethical responsibility to help schools provide safe learning environments.</p>		

It is crucial that ECEC's and schools are prepared. In the event of a major tsunami event, the fact that schools are prepared and know the right actions to take will ensure *'the substantial reduction of disaster risk and losses in lives'* from tsunami risk which is consistent with the National CDEM Strategy.

CDEM groups are often approached by ECEC's and schools to give their expert advice on how to prepare and respond to tsunami and other natural hazards risk yet there are no formal guidelines to ensure a consistent approach for the delivery of tsunami planning to ECEC's and schools.

Research conducted after the 2011 Japanese earthquake and tsunami found that child mortality rates were directly influenced by levels of preparedness in schools (Nakahara & Ichikawa, 2013). Recent research in the Wellington region (see appended paper by Johnston et al., 2016) showed that not all at-risk schools are fully prepared for a tsunami and that barriers to preparedness include limited time, resources and knowledge (Table 3, Johnston et al., 2016). In addition, in preparation for Exercise Tangaroa, the MoE sought information about which schools and ECECs are located within tsunami evacuation zones. While regions may have compiled this data, there is no national-level compilation known to MoE. Therefore, there is an opportunity to reduce risk to children in the event of a tsunami by ensuring every school and ECEC is aware of their tsunami risk and knows how to prepare and respond effectively.

Alignment with identified goals and objectives identified in the CDEM sector [200 words maximum description.]

Goal 1: Increasing community awareness, understanding, preparedness and participation in civil defence emergency management

- Increasing the level of community awareness and understanding of the risks from hazards
- Improving individual, community and business preparedness
- Encouraging and enabling wider community participation in hazard risk management

Goal 2: Reducing the risks from hazards to New Zealand

- Encouraging all CDEM stakeholders to reduce the risks from hazards to acceptable levels
- Improving the coordination of government policy relevant to CDEM

Goal 3: Enhancing New Zealand's capability to manage civil defence emergencies

Dissemination of benefits to sector [200 words maximum description.]

The project will culminate with the development of the 'Tsunami Safer Schools' guidelines for CDEM Groups to use when approached by schools. This will be made available right along the East & South Coasts of the North Island and distributed nationally. The guidelines will provide a consistent CDEM approach for the delivery of tsunami planning for schools to mitigate their tsunami risk. Templates & resources will be adaptable to suit local and regional requirements

This project will raise awareness and support ECEC's and school communities to respond appropriately to potential tsunami threats. This awareness will be disseminated into the wider community as school communities share this journey with others they have contact with, resulting in more resilient coastal communities.

This project enhances resilience and safety of ECEC's and schools located within tsunami inundation zones, assists students and teaches and the wider school community to understand and manage their risks. Should a tsunami event occur, this will be of huge benefit to the CDEM sector.

Project design

Project manager



Kate Boersen (*Community Science Coordinator, East Coast LAB (Life at the Boundary)*)

Other project members

Project members include:

	<ul style="list-style-type: none"> • Lisa Pearce (<i>Hazard Reduction Emergency Management Advisor, HBRC/HBCDEM</i>) • David Johnston (<i>Director of the Joint Centre for Disaster Research, GNS/Massy University</i>) • Jae Sutherland (<i>Community Resilience Emergency Management Advisor, HBCDEM</i>) • Dan Neely (<i>Community Resilience Manager, WREMO</i>) • Paul Stuart (<i>Civil Defence Training Assistant, GDC</i>) • Lesley Porter (<i>Emergency Management & BCP Manager, MoE</i>) • Asad Abdullahi (<i>School Support, MoE</i>) • Ursula Cochran (<i>Paleoecologist/Earthquake Geologist, GNS Science</i>) • Nick Horspool (<i>Natural Hazard Risk Scientist, GNS</i>) 	
External providers/contractors	TBC	
Deliverables		
Milestones	Date for completion	Cost
Milestone 1 (tangible): Identify all schools & ECEC's located within tsunami evacuation zones along the East Coast of New Zealand's North Island. Produce a book of maps relevant for each school / ECEC showing location of buildings with respect to known tsunami evacuation zones.	30 th September 2017	\$15,000
Milestone 2 (key): Approach three schools & ECEC's from each region along the East Coast to form a Tsunami Safer Schools Reference Group.	20 th October 2017	\$5,000
Milestone 3 (key): Collate resources that already exist regarding tsunami preparedness for schools by undertaking a document search and collaborating with CDEM groups, education advisors from MOE and Tsunami Safer Schools Reference Group. Identify "gaps" - material that would be useful but is not available in an accessible/useable format.	27 th October 2017	\$5,000
Milestone 4 (key): Design appropriate structure and content for a "Tsunami-Safer Schools Preparedness Guide" using recommendations from CDEM groups, education advisors from MOE and Tsunami Safer Schools Reference Group. Content may include, for example: <ul style="list-style-type: none"> • How to facilitate tsunami preparedness activities in schools 	30 th November 2017	\$10,000

<ul style="list-style-type: none"> • How to prepare appropriate tsunami preparedness paperwork • How to find tsunami science resources 		
<p>Milestone 5 (tangible): Create new resources identified in Milestone 4. This may include, for example:</p> <ul style="list-style-type: none"> • Tsunami preparedness FAQ sheet for parents specific to each region • Tsunami science fact sheets specific to each region <p>Trial resources at Tsunami Safer Schools Reference Group schools.</p>	31 st March 2018	\$15,000
<p>Milestone 6 (tangible): Create draft version of “Tsunami-safer Schools Preparedness Guide” by combining material from Milestones 4 and 5. Trial resources at Tsunami Safer Schools Reference Group schools.</p>	30 th April 2018	\$20,000
<p>Milestone 7 (key): Amend and refine guide according to feedback from schools and ECECs. Publish guide and make available nationally.</p>	30 th June 2018	\$10,000
Identified risks		
Risks	Suggested management	
Acquiring data in an appropriate format in a timely manner.	Managed by early contact with providers e.g., Ministry of Education for school/ECEC’s location data (via Asad Abdullahi & Lesley Porter) and ongoing discussion about data requirements.	
Duplication of work already completed.	Managed by undertaking a careful review of what resources are already available (Milestone 2), working closely with members of MCDEM’s public education working group (via Jae Sutherland & Bridget Cheeseman) and with the Ministry of Education (via Lesley Porter), and obtaining input from pilot schools.	
Ability of external providers to deliver within the required timeframes.	Managed by clearly identified due dates for each deliverable and regular communication with project participants (via Kate Boersen).	
Ability to find schools willing to participate in pilot activities.	Managed by already having interested contacts at some schools (via Paul Stuart, Jae Sutherland and Dan Neely) and starting to communicate early on in project.	
Funding request and use		
CDEM resilience fund contribution	\$70,000	
Local authority/organisation contribution: Wellington, Hawke’s Bay, Gisborne, & Manawatu-Wanganui CDEM Groups	\$5,000 from HBRC/HBCDEM and \$5,000 from WREMO	

	In-kind staff time (all participating CDEM Groups) for assistance in developing and reviewing the project and toolbox. The HBRC will provide administration support costs.		
Other sources of funding or support	MoE will provide in-kind staff time for assistance in developing and reviewing the project, along with administration support cost.		
Budget <i>[Please supply spreadsheet]</i>	See attached.		
Applies if application exceeds \$100,000 over the life of the project	Do you wish to attend a hearing in support of this application?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Application confirmation			
Approval of Chief Executive	 Liz Lambert CEO Hawke's Bay Regional Council		
CDEM Group comment			
Comment This application meets the visions of the Wellington, Hawke's Bay, Gisborne & Manawatu-Wanganui CDEM Groups of more resilient communities, along with associated reduction goals. The Groups are in strong support of this project. This project will also help to address the ongoing issue of a lack of understanding by people who live and work in tsunami inundation areas of what to do when the natural warning signs of a local source tsunami occur. By their very nature schools are a significant risk from local source tsunamis and a consistent and coordinated approach needs to be undertaken to mitigate this risk. Engaging and informing school age children also has a compounding benefit through their families. This project will enhance the resilience and safety of ECEC's and schools located within tsunami inundation zones and assists students and teaches and the wider school community to understand and manage their risks. Should a tsunami event occur, this will be of huge benefit to the community and CDEM sector.  Ian Macdonald Group Manager/Controller Hawke's Bay CDEM Group			

