



# Tropical Cyclone Ian Response Plan

This Response Plan was developed by the Government of the Kingdom of Tonga and humanitarian and development partners, following Tropical Cyclone Ian which struck Ha'apai Islands, in central Tonga on 11 January 2014. It has a three months' timeframe and aims to facilitate coordination of the humanitarian response and strengthen early recovery planning by documenting cluster plans and identifying gaps and requirements.

The Response Plan is meant to be a concise response strategy to address acute needs based on available information and reasonable inference. The Plan outlines roles and responsibilities, specific cluster/sector response plans and activities, and when possible funding requirements. Response plans and activities can be revised as more information emerges in view of the haste in which this first edition has been consolidated.

**Collaborative efforts of the National Emergency Operations Committee (NEOC)  
and partners  
30 January 2014  
Kingdom of Tonga**



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# 1. EXECUTIVE SUMMARY

Tropical Cyclone Ian, a Category 5 system with winds over 200 kilometres per hour and gusts around 300 kilometres, was the most powerful storm ever recorded in Tongan waters and passed directly over the northeast islands of Ha'apai. An estimated 5,000 have been directly affected and an estimated 800 homes were destroyed or heavily damaged.

The Government of Tonga and humanitarian and development partners have been providing emergency assistance to affected communities since the beginning of the disaster. Several assessments have been conducted covering impacts on education, housing, agriculture, livelihoods, and water resources. A number of bilateral partners have provided relief items, grants, logistical and technical support. The level of response has been significant, however, the severity of damage will require the government and humanitarian and development partners to continue to mobilize resources to meet priority needs in the months to come.

On 22 January an NEOC decision was made to develop the following three month Response plan to address the immediate and short terms needs of the effected population. The Deputy Prime Minister and NEMO are coordinating the overall response while several line ministries coordinate specific clusters including: Health, Education, WASH, Logistics, Food Security, Safety and Protection, Livelihoods, Public Works, Communications, and Electricity/Power.

This TC Ian Response Plan was developed by the Government of the Kingdom of Tonga and its humanitarian and development partners with a three month timeframe. Based on the needs identified priority areas of the response are in **Shelter, Water, Food Security, Education and Safety and Protection**. The Plan aims to facilitate coordination of the humanitarian response and early recovery by documenting cluster response plans and identifying gaps/requirements for response. In total, 89 activities have been articulated addressing needs in 11 national clusters.

The **immediate requirements over the next three months are TOP 28.4 million of which TOP 23.7 million remains unmet**. The **total requirements over the next 12-18 months including immediate, recovery and initial reconstruction needs identified are TOP 90.2 million of which TOP 83.4 million remains unmet**. The requirements per cluster are summarized below:<sup>1</sup>

Cluster/Sector	Requirement (TOP)	Met (TOP)	Un-Met (TOP)	# of act.
Health	680,000	20,000	660,000	16
WASH	2,760,000	233,000	2,527,000	13
Education	2,711,335	934,594	1,776,741	8
Shelter (Emergency/Transitional)	7,859,000	431,000	7,428,000	10
Safety & Protection	164,000	-	164,000	10
Food Sec /Livelihood	5,280,000	1,155,000	4,875,000	5
Logistics	8,877,500	2,710,000	6,167,500	9
Public Works & Emergency Services	110,000	-	110,000	7
<b>IMMEDIATE Subtotal</b>	<b>28,441,835</b>	<b>5,483,594</b>	<b>23,708,241</b>	<b>78</b>
Housing reconstruction	48,000,000		48,000,000	1
Electricity	10,850,000	2,050,000	8,800,000	6
Communications	2,923,500	1,000	2,922,500	4
<b>INITIAL RECONSTRUCTION Subtotal</b>	<b>61,773,500</b>	<b>2,051,000</b>	<b>59,722,500</b>	<b>11</b>
<b>TOTAL</b>	<b>90,215,335</b>	<b>7,534,594</b>	<b>83,430,741</b>	<b>89</b>

<sup>1</sup> The Electricity, Communications, and housing reconstruction activity (under Shelter) have been removed from the list of immediate needs due to the longer-term nature of the activities, however, they still require immediate attention for planning purposes as recovery activities increase in the weeks to come..

The scope and emphasis of the response plan is on immediate humanitarian needs, however, the medium to longer term needs of the affected population require close attention and **recovery and reconstruction** planning will need to proceed and build on the relevant areas already outlined in this Response Plan. In an effort to capture emerging recovery and reconstruction priorities national clusters also identified priorities that may only be addressed after the three month period such as housing reconstruction, longer term risk reduction measures and full restoration of electricity and communication systems.

The outstanding needs and activities for humanitarian and early recovery assistance are elaborated in the following Plan.

## **2. CONTEXT AND HUMANITARIAN CONSEQUENCES**

### **2.1 Context**

Severe Tropical Cyclone Ian first appeared as a tropical depression on 6 January 2014 and developed into a cyclone between Fiji and Tonga. With the system heading towards the northern islands of Tonga, the National Emergency Operations Committee put the Emergency Operations Centre (EOC) on standby on 8 January.

On Thursday 9 January, the Director of the National Emergency Management Office (NEMO) activated the National EOC in Tongatapu and additional EOCs on the islands of Ha'apai and Vava'u, which were in the cyclone's path. The EOCs operated 24/7 and provided regular updates on the cyclone's track and intensity. The EOC, Governor's office and local leaders coordinated preparedness at the district and village level, establishing evacuation centres and implementing local emergency management plans.

In the early hours of Saturday 11 January, Tropical Cyclone Ian intensified to a Category 5 system with winds over 200 kilometres per hour and gusts around 300 kilometres per hour – the most powerful storm ever recorded in Tongan waters. The cyclone passed directly over the northeast islands of Ha'apai. The Prime Minister endorsed a state of emergency declaration for Vava'u and Ha'apai the same day.

One elderly woman died and 14 people received minor injuries, with preparedness measures likely to have prevented more casualties. On 12 January, rapid assessments began across Vava'u and Ha'apai under the direction of the Deputy Prime Minister in his capacity as Chair of the National Emergency Operations Committee. Patrol boats were deployed to outer islands to assess damage and deliver relief items, and a New Zealand (NZ) Air Force P3 Orion conducted an aerial surveillance.

Initially there were 2,335 people in 51 formal and informal evacuation centres, however, with the distribution of tents, tarpaulins and shelter kits, numbers have reduced significantly as people begin to return to and reestablish homes under plastic tarps. One of the key challenges is delivering supplies within and between islands. Some outer islands are without sea or air ports, making the delivery of building materials and relief supplies a challenge.

Despite the low casualty rate, the cyclone caused significant damage to homes, infrastructure and vegetation in 18 villages across six islands in Ha'apai: Uiha, Uoleva, Lifuka, Foa, Ha'ano and Mo'unga'one. Over 5,000 people were directly affected and more than 3,500 people were left homeless.

A number of shops have been damaged or have had to shut down, and supplies have become limited. Transportation of goods to functioning shops in Haapai is constrained and expensive. Business activity has taken a severe downturn, pushing businesses to rely more on their savings and donations from outside. Tourism, the most significant sector in the local economy, has been severely affected due to damages to all twelve resorts and hotels resulting in cancelled bookings and a severe down-turn in future business which will lead to a short term reduction in employment opportunities and subsequent impact on the local economy.

Overall the impact on the welfare of the people will require immediate-medium- and long-term action.

### **2.2 Response to date**

The Deputy Prime Minister and NEMO are coordinating the overall response while several line ministries have been identified to coordinate specific clusters including: Health, Education,

WASH, Logistics, Food Security, Safety and Protection, Livelihoods, Public Works, Communications, and Electricity/Power. Several humanitarian partners, including Tonga Red Cross Society, church and community groups, and non-governmental organizations have been providing assistance since the beginning of the response.

Australia, China, France, Japan, New Zealand and USA have provided support to Tonga with relief items, cash grants, logistical support and technical support. The Pacific Humanitarian Team mobilized support technical support and relief item from several offices in the region. The response to date has been summarized in the following table:

	<b>Cluster/ Sector</b>	<b>Response to date</b>	<b>Implementer</b>
1	<b>Health</b>	<ul style="list-style-type: none"> <li>Health assessments undertaken by MoH Health Inspectors</li> <li>Hospital operational</li> </ul>	MoH, WHO
2	<b>WASH</b>	<ul style="list-style-type: none"> <li>WASH initial rapid assessments (MLECCNR, TNYC/Oxfam)</li> <li>Tong Water Board restored water supply on Lifuka and mobilized 18,000 l/d desalination unit</li> <li>Mobilizing additional desalination units for Foa, Mo'unga'one and Ha'ano (Oxfam)</li> <li>WASH kits (containers, purification tablets, soap, hygiene messages), water bladders and water quality test kits (UNICEF)</li> </ul>	MoH, TWB, MLECCNR, TNYC/OXFAM, UNICEF
3	<b>Education</b>	<ul style="list-style-type: none"> <li>Damage assessment of educational facilities in all Ha'apai</li> <li>Clean-up of schools started</li> <li>Sourcing school kits and classroom tents</li> </ul>	MET
4	<b>Shelter</b>	<ul style="list-style-type: none"> <li>Provision of 340 tents</li> <li>Distribution of 500 tarpaulins</li> <li>Ongoing distribution of emergency shelter kits (approx. 400)</li> <li>Additional 400 tents being procured and 200 tents being allocated from Red Cross storage inn Brisbane.</li> </ul>	TRCS and NEMO
5	<b>Food Security and livelihoods</b>	<ul style="list-style-type: none"> <li>Assessment of agriculture damage and loss completed (Report due 31st Jan 2014).</li> <li>Rapid assessment of impact to livelihood and businesses</li> <li>Food rations from NEMO, Red Cross, church groups and private agencies have been distributed to most areas (mainly north-eastern parts of Ha'apai).</li> <li>Immediate restoration of local agricultural resources including seedlings, tools and land preparation</li> </ul>	MAFFF, MORDI TT, FAO, and TNYC/Oxfam, Chamber of Commerce / TBEC,  Gov. of NZ
6	<b>Safety and Protection</b>	<ul style="list-style-type: none"> <li>Psychosocial support bring provided by several organisations.</li> <li>Surge support gender and protection assessment planned</li> </ul>	MIA, Caritas, LDS, OHCHR, UNW
7	<b>Logistics/ Transport</b>	<ul style="list-style-type: none"> <li>Mobilisation of FRANZ partner aircraft to support aerial assessment and transport of relief items first week of response</li> <li>26 foot boat of TRCS being use for inter-island transport.</li> </ul>	MFA, TRCS, Aus., NZ, France.
8	<b>Public Works</b>	<ul style="list-style-type: none"> <li>Clean up of roads, airport, and public places. having sites for rubbish etc Waste Authority is the only body that have some exp and should be included</li> </ul>	HMAF,
9	<b>Electricity / Power</b>	<ul style="list-style-type: none"> <li>25 % of original network rebuilt.</li> <li>Inspected &amp; Tested Generation in Ha'apai.</li> <li>Re allocation of heavy equipment to Ha'apai: (bucket trucks, 1 crane truck, hardware and food supplies arrived on the Pulumaki)</li> <li>Rebuilt network to the Water Board &amp; Hospital.</li> <li>Rebuilt network up past the Tonga Development Bank. Digicel, TCC, TPL Office back up and running off our Network</li> <li>Restore power to the Governor's Office (EOC / NEMO base)</li> <li>Restoring power to shops and houses that were not affected</li> <li>All high voltage lines rebuild from Pangai North to the top of the causeway at Foa Island. Approximately 140 premises have been connected.</li> </ul>	MEP, Tonga Power Ltd,
10	<b>Communica-tions</b>	<ul style="list-style-type: none"> <li>Digicel re-established mobile phone services across the affected area.</li> </ul>	MIC, Digicel

## 2.3 Humanitarian consequences and needs analysis

**Priority areas for in the response are Shelter, Water, Food Aid, Education and Psychosocial Support Services.** In addition, the Health sector will need to sustain and in some areas rebuild services for the affected communities. Based on the Tonga 2011 census, of the 6,616 total population of Ha'apai, there were 3,210 women, 1,094 girls, 831 infants, 523 youth, 154 (75+yrs) elderly and 1,199 disabled persons.

Most households rely on rainwater harvesting tanks for **drinking water**, however, which have been contaminated and many are unable to collect water due to missing roof catchments. An estimated 80% of the total population are without access to their usual drinking water source and latrines and are reliant on relief supplies and alternative sources which may be compromised in terms of quality and safety. Priority communities identified include the islands of Mo'unga'one, Ha'ano and Fao. Attention need to be paid to health and water-borne disease risk for vulnerable groups including children under age 5 and pregnant and lactating women.

The majority of the 800<sup>2</sup> households with **damaged or destroyed** homes have been provided with either a tarp, tent and or shelter kit, however, an estimated 200 tents are urgently required to fill outstanding gaps and replace damaged tents. An agreed shelter strategy moving the current 800 households from emergency shelter o transitional shelter in the next three months until their homes can be reconstructed by 2015 is of urgent need.

Extensive loss of crops, livestock and fisheries assets will have detrimental impacts on household **food security** and will only be exacerbated due to the on-going drought forecast to continue until May 2014. Emergency food aid has been provided by faith based organisations and by the Government and will need to be funded to ensure availability of food in households until the end of May.

An estimated 17 **schools** were damaged or destroyed, impacting 1,293 students. With the start of the school year 3 February there is an urgent need to ensure students can return to a safe clean learning environment as soon as possible. While some temporary learning spaces and education supplies have been provided more are needed in addition to reconstruction and cleaning. Returning to school will enable students to participate in activities designed to help them share, talk about and deal with the trauma of the cyclone.

**Livelihoods** have been impacted due to loss of income, labour and employment, access to markets and impacts on the business community (formal and informal). These are largely driven through damages to crops such as coconut palm, fishing material and equipment, the tourism industry and small businesses as well as inter-island transportation.

There is a need to confirm the numbers of **vulnerable groups** in affected areas of Ha'apai and ensure equitable and appropriate access to relief services. There are a number of organizations providing psychosocial services which require stronger coordination to ensure an equitable quality and standard of service. In addition, a stronger understanding of protection principles and priorities across the Tonga national clusters should be integrated into response and recovery efforts.

There is an urgent need to improve **transport** for the relief operations from Nuku'alofa and within the Ha'apai group. These needs include: small marine crafts to assist in transportation of personnel, relief supplies and construction materials between islands and to/from larger vessels, and a barge to transport construction material to Ha'apai.

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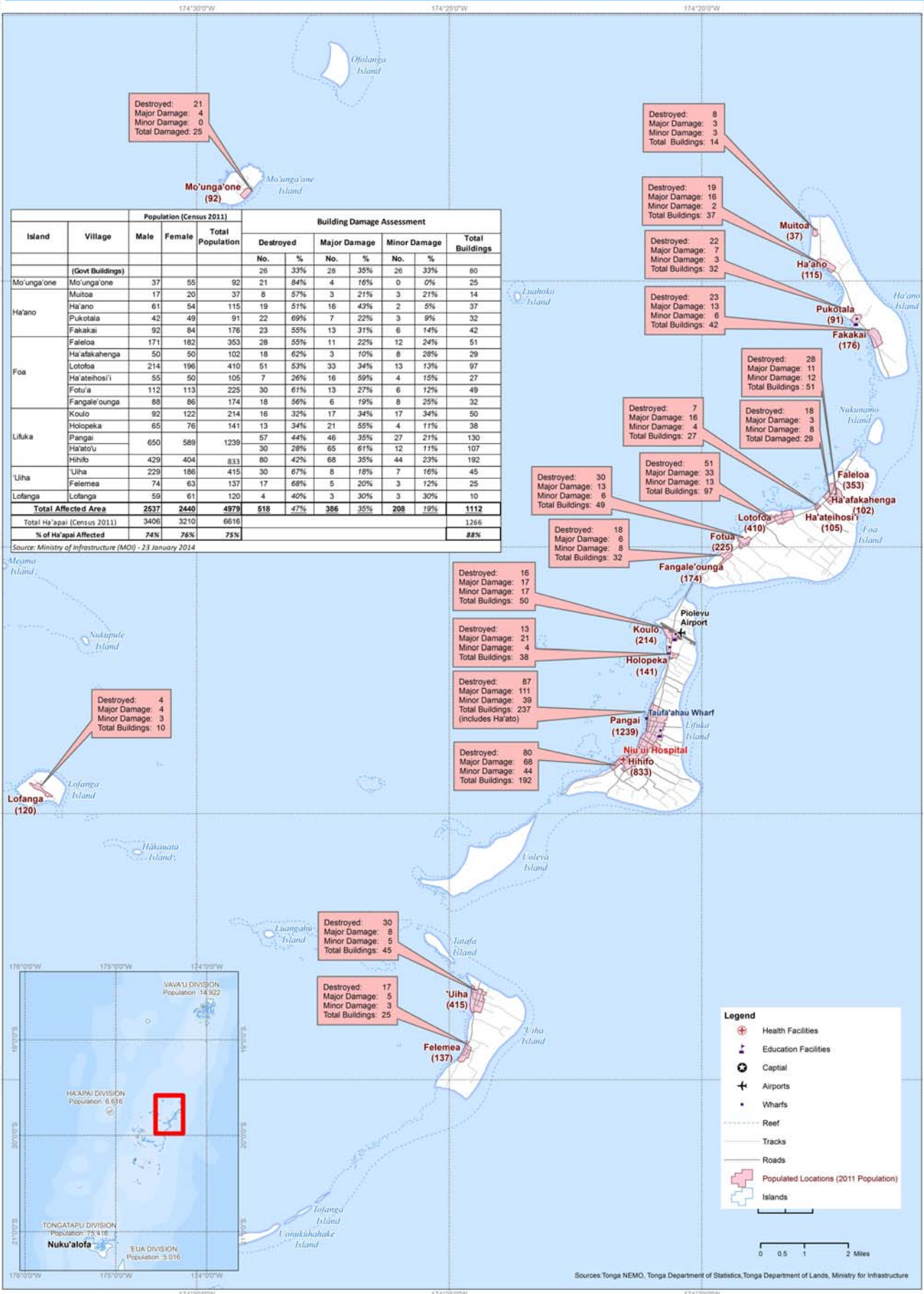
<sup>2</sup> The figure of 800 is a best estimate at this time. MoI survey of damage buildings indicate destroyed and major damaged homes as follows: 709 private dwellings, 8 MET staff quarters, 8 other government staff quarters and 33 church quarters. In total 757 residential homes/quarters been heavily damaged or destroyed. TRCS survey is slightly higher with 777 homes identified as requiring reconstruction.



The extensive damage to **utilities and communications** require considerable investment in building back better those assets so they are less vulnerable in future disasters. An estimated 95% of the electrical grid was damaged and to date the majority of homes (75%) are without power. The Tonga Fire and Emergency Service Fire Station in Pangai requires additional **rescue and equipment and supplies** to ensure it can continue to lead response during future natural disasters.

The scope and emphasis of the response plan is on immediate humanitarian needs, however, the medium to longer term needs of the affected population require close attention and **recovery and reconstruction planning** need to proceed and build on the relevant areas already outlined in this Response Plan. In light of the emerging need to transition towards addressing the medium and longer term aspects of recovery and reconstruction, activation of the 'National Emergency Recovery Committee' should be considered, which can then coordinate the assessment, development and implementation of a more detailed recovery and reconstruction plan.

# TC Ian: Initial Building Damage Assessment Reports - North East Ha'apai Group - 27 Jan 2014



### 3. RESPONSE PLANS

#### Health/Nutrition and WASH

<b>Lead Agency</b>	Ministry of Health
<b>Key Partners</b>	Tonga Water Board, MLECCNR, MoI, TMS, TNYC/OXFAM, TCDT, Tonga Red Cross, CARITAS, ADRA, Act for Peace, UNICEF, WHO, SPC/SOPAC, NZ Red Cross, Australia, New Zealand, Japan/JICA
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#### Needs analysis

The Ministry of Health (MOH) Public Health Team have completed the first rotation to Foa, Lifuka, Lofanga, Mou'unga'one, Kauvai and 'Uiha/Felemea islands. The current Health Team consists of 1 Doctor, 2 Nurse Practitioners, 1 Sister, 1 Senior Nurse and 2 Non Communicable Diseases Nurse, 4 volunteer Australian Tongan RN, 2 Health Inspector and 6 Vector Control machine operators, 1 Reproductive Health Nurse, and 1 Assistant pharmacist. The Team provides consultations, medical treatment, health talk/ counselling, psychological support, reproductive health, etc. Simultaneously, Health Inspectors continue to assess the **public health** risk, water catchment treatment, survey, sanitation inspections, etc. as part of community visits.

Operation at the hospital is slowly back to normal with help from the team from Tongatapu - 3 RNs (2 with expertise on emergency and disaster) from Vaiola hospital are currently supporting nursing staffing situation at Ha'apai. The **hospital** roof was partially damaged and renovations are expected to be completed shortly. A report on damage to staff quarters has been submitted for project development. Spraying of the outer island is completed including major camping sites, relevant relief operation sites (Tonga Red Cross, EOC, Police, TPB, etc). Three more spraying machines with personal protection equipment are required to assist environmental health preventative services. A number of evacuation centres has been established in churches throughout Ha'apai with the latest count being 15 centres hosting around 400 people. HEOC is likely looking for alternatives to help those that don't have shelter yet.

Most households rely for **drinking water** on rainwater harvesting tanks which can be contaminated and are unable to collect water due to missing roof catchments. According to MLECCNR/SPC baseline studies groundwater is being used for the reticulated water supply by the Tonga Water Board in Pangai, Hihifo and Holopeka, covering 68% of the total Lifuka population, and is usually treated. The Tonga Water Board has restored the water supply on Lifuka. On Lifuka, the reticulated water supply is back to normal but a few houses are left out due to low pressure and distance from source. The rest of the town supply to other areas face problems with tanks, pipes, engine and water pumps. On outer islands of Mo'unga'one, Ha'ano, Foa rainwater harvesting tanks have been severely damaged and water quality concerns exist although water purification has been taken place at some household storage tanks by health inspectors. Provision of adequate clean water for drinking and sanitation remains a concern in all areas. Limited alternative options exist on smaller outer islands and desalination capacity or bulk water supply may be required through bladders or storage tanks. People are being advised not to drink untreated water as groundwater resources are largely contaminated with faecal matter.

**Sanitation** remains a concern as large numbers of people have been displaced and reside in formal evacuation centres, and existing sanitation facilities are partly or fully destroyed. Sanitation requirements remain to be assessed for the education sector, as schools plan to reopen in temporary learning spaces within the next 3 weeks. Appropriate and affordable

temporary and longer term sanitation options are required and concerns on groundwater pollution and acceptable designs need to be addressed.

With the disruption of water supply and sanitation services for the affected population, intensive **hygiene** promotion may require attention as to avoid outbreaks of water-borne diseases. As the Tonga Meteorological Service observed and is predicting drier than normal conditions in the next few months, the situation needs to be closely monitored and WASH interventions intensified when required.

### Beneficiaries

All affected communities on all islands in the Ha'apai and Vava'u Groups. Considering that 545 buildings out of a total of 1130 have been destroyed (48%) and an additional 398 buildings (35%) suffered major damage, the assumption can be made that an equivalent proportion of the population (83 % in total) are now without access to their usual drinking water source and latrines and have to resort to alternative supplies at evacuation centres, churches or schools or are using alternative sources which may be compromised in terms of quality and safety.

The total population may require support of some form and based on detailed assessments to be assembled by MoH and MLECCNR, priority communities identified include the islands of Mo'unga'one, Ha'ano and Fao. Attention need to be paid to health and water-borne disease risk for vulnerable groups including children under age 5, children of vaccination age, pregnant and lactating women.

### Intervention areas and objectives

<b>I Public Health Needs and Capacity Assessments<sup>3</sup></b>	
<b>I-A</b>	Improve accessibility of affected population to Community Health Services
<b>I-B</b>	Provide sufficient Preventative Health Care Services
<b>I-C</b>	Maintain sufficient capacity required for Health Care Service Delivery
<b>II Hospital Based Needs</b>	
<b>II-A</b>	Maintain and support good hospital governance and leadership
<b>II-B</b>	Accelerate hospital refurbishment, strengthen resilience due to impact of disaster and climate
<b>II-C</b>	Provision of Mobile Services
<b>III Containment of Communicable Diseases</b>	
<b>III-A</b>	Improve Notifiable Disease Surveillance
<b>III-B</b>	Provide Responsive Public Health Measures to address identified risks
<b>III-C</b>	Provide appropriate Health Education
<b>III-D</b>	Post-disaster risk assessment
<b>III-E</b>	Post-disaster Early Warning Surveillance and Response Network (EWARN)
<b>IV Environmental Health: WASH (Water Sanitation and Hygiene), Vector Control and Solid Waste</b>	
<b>IV-A</b>	Provide adequate quantity of <b>safe water</b> for drinking, cooking and personal and domestic hygiene for the whole population of Ha'apai
<b>IV-B</b>	Provide adequate access to appropriate and acceptable <b>toilet facilities</b> for the whole population of Ha'apai

<sup>3</sup> Pending the results of continued health surveillance additional related to **Nutrition** can be added to the response plan by MoH in collaboration with WHO and UNICEF including: Nutrition assessments and health messages; safe food handling; and evidence-based nutritional interventions to protect young children.

<b>IV-C</b>	Maintain adequate <b>hygiene practices</b> in affected communities and increase general awareness on public health risks through key family practices
<b>IV-D</b>	Establish convenient and effective domestic <b>solid waste</b> disposal in affected communities
<b>IV-E</b>	Protect affected population from disease and nuisance <b>vectors</b> that are likely to caTe significant risk to health or well-being

## I) Public Health Needs and Capacity Assessments

### Objectives

<b>I-A</b>	Improve accessibility of affected population to Community Health Services
<b>I-B</b>	Provide sufficient Preventative Health Care Services
<b>I-C</b>	Maintain sufficient capacity required for Health Care Service Delivery

### I-A) Community Health Services

#### Activity A1

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Community Health Impact Assessment
<b>Beneficiaries</b>	Most affected areas
<b>Partners</b>	WHO, MoH (Niu'ui Hospital), NGOs and Development Communities
<b>Budget</b>	Requirement: T\$40,000 Funded: T\$0 Unmet: T\$40,000
<b>Expected Impacts</b>	Community Health Impact Assessment Report that will identify the primary, secondary and tertiary prevention health services reduced by the TC Ian, prioritize the urgent, mid-term and long-term recovery, and make concrete recommendations for capacity development in line with IARC/WHO guidance

### I-B) Preventative Health Care Services

#### Activity B1

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Recover and build back better health care support services for vulnerable groups (children, disabilities, pregnant women, ageing etc.)
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	WHO, MoH (Niu'ui Hospital), DFAT
<b>Budget</b>	Requirement: T\$10,000 Funded: T\$0 Unmet: T\$10,000
<b>Expected Impacts</b>	Effective and timely linkage between the surveillance system and the preventive health service provided by Niu'ui and community health posts. Early detection of possible outbreaks, early intervention for risk reduction, improved personal and environmental hygiene

### I-C) Health Care Service Delivery

#### Activity C1

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Strengthen Communication within and between islands
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	MoH (Niu'ui Hospital, community health posts), WHO, DFAT
<b>Budget</b>	Requirement: T\$130,000 Funded: T\$0 Unmet: T\$130,000
<b>Expected Impacts</b>	Improved coverage of community health services with responsive turnaround time and referral system

**Activity C2**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Maintain and accelerate health care service delivery at community and home visits where needed
<b>Location</b>	Pangai
<b>Partners</b>	MoH, Development Partners, NGOs, UNFPA
<b>Budget</b>	Requirement: T\$20,000 Funded: T\$0 Unmet: T\$20,000
<b>Impacts</b>	100% Accessibility to community health and preventative services

**II) Hospital based Needs****Objectives**

<b>A</b>	Maintain and support good hospital governance and leadership
<b>B</b>	Accelerate hospital refurbishment, strengthen resilience due to impact of disaster and climate
<b>C</b>	Provision of Mobile Services

**II-A) Maintain good hospital governance and leadership****Activity A1**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Disaster and Recovery Plan for Ha'apai
<b>Beneficiaries</b>	Most affected areas
<b>Partners</b>	MoH, WHO, NGOs and Development Communities
<b>Budget</b>	Requirement: T\$40,000 Funded: T\$0 Unmet: T\$40,000
<b>Expected Impacts</b>	Guidelines that describe clear roles and responsibilities of hospital Staff during both disaster and recovery stages, with reference to WHO Disaster Management Guidelines. Delineation of roles and responsibilities during both disaster and recovery stage. Delineation of clear communication framework to and from smaller islands to main hospital (overall leadership of Ha'apai health)

**Activity A2**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Maintain, support and develop appropriate knowledge and experience of hospital staff for possible health situation (including vulnerable population) during natural disaster and its recovery stage (psychological support)
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	MoH, WHO, DFAT, UNFPA
<b>Budget</b>	Requirement: T\$10,000 Funded: T\$0 Unmet: T\$10,000
<b>Outputs and Impacts</b>	Professional Development and training for efficient and effective hospital care services delivery during natural disaster situation with reference to WHO Disaster Management Guidelines. Psychological Support Training implemented for health care workers – how they can help themselves to help others. Special support given to vulnerable population including people with disabilities, infants/ children, pregnant women, breast feeding women, population with special needs

**Activity A3**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Ensure that sufficient stocks of hospital supplies and logistics are available at all times with comprehensive monitoring of resource utilization and back-up strategies
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	WHO, UNICEF, MoH, DFAT
<b>Budget</b>	Requirement: T\$40,000 Funded: T\$0 Unmet: T\$40,000
<b>Expected Impacts</b>	Adequate management of resources and supplies of Hospital requirements and adequate back-up stocks in place and ongoing monitoring recorded

**II-B) Hospital Refurbishment****Activity B1**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Accelerate maintenance of Niu'ui Hospital
<b>Location</b>	Pangai
<b>Partners</b>	MoH, WHO, Development Partners, NGOs
<b>Budget</b>	Requirement: T\$100,000 Funded: T\$0 Unmet: T\$100,000
<b>Expected Outputs</b>	Fully functioning hospital that can withstand the requirements of the Recovery Plan and improved hospital resilience to disasters following WHO guidance

**Activity B2**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Accelerate relocation of Niu'ui Hospital
<b>Beneficiaries</b>	Pangai
<b>Partners</b>	MoH, ADB, WHO, NGOs
<b>Budget</b>	Requirement: T\$10,000 Funded: T\$0 Unmet: T\$10,000
<b>Expected Impacts</b>	A master plan of relocation on green and safe hospital. Revised details implementation plan for the relocation of Niu'ui Hospital, building of water reservoir with staff relocation. Improved hospital resilience to disasters following WHO guidance

**II-C) Provision of Mobile Services****Activity C1**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Maintain and accelerate health care service delivery at community and home visits where needed (mobile services)
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	MoH, Development Partners, NGOs
<b>Budget</b>	Requirement: T\$10,000 Funded: T\$0 Unmet: T\$10,000
<b>Expected Impacts</b>	100% accessibility to community health and preventative services. Improved equipment for quick communication for emergency transfer of patients

**Activity C2**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Design and establish a micro-mobile hospital (approx. 10 beds mobile hospital-with basic facilities for accidents/injuries etc) on stand-by in case a natural disaster occurs before relocation of current hospital. In the case of a future natural disaster-no patients and health care workers should be at current hospital facility-it is totally UNSAFE for ALL
<b>Beneficiaries/ Location</b>	All affected areas
<b>Partners</b>	MoH, Development Partners, NGOs
<b>Budget</b>	Requirement: T\$100,000 Funded: T\$0 Unmet: T\$100,000
<b>Expected Outputs and Impacts</b>	Plan and design for micro-mobile hospital developed A Micro-mobile hospital on standby 100% Accessibility to mobile emergency and critical services

**III) Containment of Communicable Diseases****Objectives**

<b>A</b>	Improve Notifiable Disease Surveillance
<b>B</b>	Provide Responsive Public Health Measures to address identified risks
<b>C</b>	Provide appropriate Health Education
<b>D</b>	Post-disaster Risk Assessment
<b>E</b>	Post-disaster Early Warning Surveillance and Response Network (EWARN)

**Proposed activities****III-A) Notifiable Disease Surveillance****Activity A1**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Enforce Notifiable Disease Surveillance to inform in timely manner possible outbreak with enough specificity for appropriate public health measures
<b>Beneficiaries</b>	Most affected areas
<b>Partners</b>	WHO, MoH, NGOs and Development Communities
<b>Budget</b>	Requirement: T\$10,000 Funded: T\$0 Unmet: T\$10,000
<b>Expected Impacts</b>	Dynamic reporting system that would guide public health interventions

**III-B) Responsive Public Health Measures****Activity B1**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Ongoing risk assessment (quality of water, hygiene, sanitation) and public health intervention (Environmental Health)
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	MoH, DFAT
<b>Budget</b>	Requirement: T\$50,000 Funded: T\$0 Unmet: T\$50,000
<b>Expected Impacts</b>	Risk Protection (see also activity IV-A2)



**III-C) Health Education****Activity C1**

<b>Agency</b>	<b>MOH</b>
<b>Description</b>	Health Education delivery
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	MoH, DFAT
<b>Budget</b>	Requirement: T\$50,000 Funded: T\$0 Unmet: T\$50,000
<b>Expected Impacts</b>	Complete accessibility to appropriate ranges of health education

**III-D) Post-disaster outbreak risk assessment****Activity D1**

<b>Agency</b>	<b>WHO</b>
<b>Description</b>	Post-disaster risk assessment to determine degree of outbreak risk, and significance of outbreak should one occur
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	MoH, DFAT
<b>Budget</b>	Requirement: T\$20,000 Funded: T\$20,000 (WHO support) Unmet: T\$0
<b>Expected Impacts</b>	Systematic assessment of present and future outbreak risks, followed by concrete recommendations for risk management following the WHO guidance

**III-E) Post-disaster Early Warning Surveillance and Response Network****Activity E1**

<b>Agency</b>	<b>WHO</b>
<b>Description</b>	Senior medical and public health staff of MOH and Ha'apai health system work with a WHO epidemiologist to establish Post-disaster Early Warning Surveillance and Response Network (EWARN) strategy and implementation plan
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	MoH, DFAT
<b>Budget</b>	Requirement: T\$40,000 Funded: T\$0 Unmet: T\$40,000
<b>Expected Outputs and Impacts</b>	EWARN surveillance outputs reported to MOH and WHO until outbreak risk becomes negligible. Afterwards, a sustainable early warning disease surveillance system will be established.

**IV) Environmental Health: WASH (Water Sanitation and Hygiene), Vector Control and Solid Waste****Objectives**

<b>A</b>	Provide adequate quantity of <b>safe water</b> for drinking, cooking and personal and domestic hygiene for the whole population of Ha'apai
<b>B</b>	Provide adequate access to appropriate and acceptable <b>toilet facilities</b> for the whole population of Ha'apai
<b>C</b>	Maintain adequate <b>hygiene practices</b> in affected communities and increase general awareness on public health risks through key family practices
<b>D</b>	Establish convenient and effective domestic <b>solid waste</b> disposal in affected communities
<b>E</b>	Protect affected population from disease and nuisance <b>vectors</b> that are likely to cause significant risk to health or well-being

**Proposed activities****IV-A) Water Supply****Activity A1**

<b>Agency</b>	<b>MLECCNR</b>
<b>Description</b>	Assessment and mapping of the impact of Cyclone Ian on all water resources (groundwater, rainwater harvesting) and assess capacity needs and establish continued water quality and drought monitoring program
<b>Location</b>	Lifuka
<b>Partners</b>	MoH, SPC/SOPAC, Tonga Meteorological Services
<b>Budget</b>	Requirement: T\$20,000 Funded: T\$13,000 Unmet: T\$7,000
<b>Expected Impacts</b>	Risk maps and synthesis and updates on water resources quantity and quality and availability for domestic use

**Activity A2**

<b>Agency</b>	<b>MoH</b>
<b>Description</b>	Assessment of environmental health issues on population through surveys and synthesis by health inspectors and synthesize assessment results with regular updates for WASH Cluster actions and encourage engagement of women/men in WASH assessment teams
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	MoH, WHO, TNYC/OXFAM, Tonga Red Cross, TCDT
<b>Budget</b>	Requirement: T\$0 Funded: T\$0 Unmet: T\$0
<b>Expected Outputs and Impacts</b>	Updates on water, sanitation and hygiene issues to assess priority needs of affected population

**Activity A3**

<b>Agency</b>	<b>Tonga Water Board and MOH</b>
<b>Description</b>	Restore water services and increase quality water monitoring of reticulated services
<b>Location</b>	Pangai
<b>Partners</b>	MoH, MLECCNR
<b>Budget</b>	Requirement: T\$15,000 Funded: T\$15,000 Unmet: T\$0
<b>Expected Impacts</b>	Water services restored to households and water adequately treated to maintain drinking water safety at all connected households

**Activity A4**

<b>Agency</b>	<b>Tonga Water Board, Tonga National Youth Congress, CARITAS</b>
<b>Description</b>	Establish supplementary water supplies in affected priority areas through tanks and enhanced desalination capacity
<b>Location</b>	Lifuka (Pangai TWB, other TNYC), Ha'ano (TNYC), Mo'unga'one (TNYC)
<b>Partners</b>	OXFAM, New Zealand
<b>Budget</b>	Requirement: T\$410,000 Funded: T\$170,000 Unmet: T\$240,000
<b>Expected Impacts</b>	Increased water available to meet urgent needs for for drinking, cooking and personal and domestic hygiene
<b>Comments</b>	Desalination units to be deployed and water quality to be tested before water distribution to households. Adequate storage required and operation and maintenance plans to be agreed and regular monitoring of distribution and costs covered

**Activity A5**

<b>Agency</b>	<b>MoH, NEMO, NGOs</b>
<b>Description</b>	Provide access to household bottled water, water containers and water purification tablets
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	UNICEF, CARITAS, OXFAM, Tonga Red Cross, JICA, TCDT
<b>Budget</b>	Requirement: T\$30,000 Funded: T\$30,000 Unmet: T\$0
<b>Expected Impacts</b>	Households have adequate bottled water or water storage for meeting immediate drinking, washing and cooking requirements

**Activity A6**

<b>Agency</b>	<b>MoH, NGOs</b>
<b>Description</b>	Provide support to community drinking water safety, water quality monitoring and conservation messaging and roll out drinking water safety planning approach and encourage engagement of women/men to revitalize water user groups
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	UNICEF, WHO, CARITAS, TNYC/OXFAM, Tonga Red Cross, TCDT
<b>Budget</b>	Requirement: T\$20,000 Funded: T\$5,000 Unmet: T\$15,000
<b>Expected Impacts</b>	Communities are able to treat their water sources (rainwater harvesting or storage tanks) and water containers and perform H2S tests on drinking water quality.
<b>Comments</b>	Keeping your drinking water safe toolkit available including H2S instructions (LLEE/WHO/SOPAC, 2004)

**Activity A7**

<b>Agency</b>	<b>NGOs</b>
<b>Description</b>	Restore rainwater harvesting capacity at households and maximize storage
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	CARITAS, TNYC/OXFAM, Tonga Red Cross, TCDT
<b>Budget</b>	Requirement: T\$1,500,000 Funded: T\$ Unmet: T\$1,500,000
<b>Expected Impacts</b>	Communities are restoring access to rainwater harvesting and maximize storage and conservation
<b>Comments</b>	Harvesting the Heavens rainwater harvesting manual available in Tongan ( <i>Lepa Vai Tali Kelangi, Pepa fakahinohino ki he ako feako'aki ki he tanaki e vai 'uha, TCDT/SOPAC 2004</i> )

**IV-B Sanitation****Activity B1**

<b>Agency</b>	<b>MoH</b>
<b>Description</b>	Engage a sanitation specialist to undertake a review of sanitation options for affected villages with attention to evacuation centers, schools, and health centers.
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	Mol, MLECCNR and NGOs
<b>Budget</b>	Requirement: T\$50,000 Funded: T\$0 Unmet: T\$50,000
<b>Expected Outputs and Impacts</b>	Determine immediate as well as medium-term response needs and remedies given the high risks of groundwater pollution and lack of building codes and standards for facilities and develop a comprehensive sanitation strategy and programme.

**Activity B2**

<b>Agency</b>	<b>MoH and NGOs</b>
<b>Description</b>	Reconstruction or rehabilitation of latrines and mobilization of portable toilets to priority areas (more densely populated areas or evacuation centres)
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	Mol, MLECCNR and NGOs
<b>Budget</b>	Requirement: T\$650,000 Funded: T\$0 Unmet: T\$650,000
<b>Expected Impacts</b>	Provide adequate sanitation facilities at communal buildings and avoid water-borne disease outbreaks

**IV-C) Hygiene****Activity C1**

<b>Lead Agency</b>	<b>MoH and NGOs</b>
<b>Description</b>	Provide soap and hygiene kits to affected communities making strategically use of women in WASH distribution teams, and use man-to-man and woman-to-woman communication in hygiene messaging, with particular attention paid to female-headed households, elderly women and other vulnerable groups
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	UNICEF, WHO, TCDT, TNYC/OXFAM, Tonga Red Cross
<b>Budget</b>	Requirement: T\$20,000 Funded: T\$0 Unmet: T\$20,000
<b>Expected Output and Impacts</b>	Prevention of water-borne disease outbreaks and communities have healthy water, sanitation and hygiene practices

**Activity C2**

<b>Lead Agency</b>	<b>MoH and NGOs (TCDT)</b>
<b>Description</b>	Disseminate and raise awareness on key family health and hygiene practices including boiling water notices where needed including communicating messages by radio
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	UNICEF, WHO, TCDT, TNYC/OXFAM, Tonga Red Cross
<b>Budget</b>	Requirement: T\$15,000 Funded: T\$0 Unmet: T\$15,000
<b>Expected Impacts</b>	Increased general awareness on public health risks and water, sanitation and hygiene practices

**IV-D) Solid Waste****Activity D1**

<b>Lead Agency</b>	<b>MoH</b>
<b>Description</b>	Establish convenient and effective domestic solid waste disposal (in affected communities and address solid waste issues on the longer term through allocation, collection, separation and reduction of domestic waste)
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	WHO, TCDT
<b>Budget</b>	Requirement: T\$10,000 Funded: T\$0 Unmet: T\$10,000
<b>Expected Impacts</b>	Reduced health risk associated with solid waste through designated dumps sites and promotion of separation of biodegradable waste, reduction, reTe and recycling

**IV-E) Vector Control**

**Activity E1**

<b>Lead Agency</b>	<b>MoH and NGOs</b>
<b>Description</b>	Vector health surveillance and awareness
<b>Beneficiaries</b>	All affected areas
<b>Partners</b>	WHO, TCDT
<b>Budget</b>	Requirement: T\$20,000 Funded: T\$0 Unmet: T\$20,000
<b>Expected Impacts</b>	Prevention of vector-borne disease outbreaks and communities reduce the risk of mosquito breeding

## Education

<b>Lead Agency</b>	Ministry of Education
<b>Key Partners</b>	NEMO, MOI, MOH and MAFFF
<b>Contact Information</b>	Mrs Emeli Pouvalu CEO Ministry of Education Tel: 7773934, 23511, Email: director@tongaeducation.gov.to

### Needs Analysis

The Ministry of Education and Training aims to partner and work with all its key stakeholders and willing donors to fully assess the full extent of damage caused by Tropical Cyclone Ian and the financial cost of replacing, repairing and restoring essential services, resources and physical environments for learning and teaching in Ha'apai.

Assessments to date clearly indicate the following priority and urgent needs:

- Clearing and cleaning of school buildings and compounds;
- Provision of safe drinking water and adequate sanitation; and
- Replacement of curriculum materials and repair of school buildings.

The Ministry wishes to emphasize the crucial need for timely decision making, effective implementation and prompt delivery of the activities that it has identified and outlines in the proposed sector activities below.

MET acknowledges that other needs or requirements will arise as it continues to work on the restoration of the educational sector in Ha'apai.

### Sectoral objectives

<b>A</b>	Return the learning and teaching environments to normalcy at the earliest possible date. (i) Clear debris and clean school buildings and compounds (ii) Provision of safe drinking water and adequate sanitation (iii) Provision of shelter, furniture and teaching accessories (iv) Supply of teaching and learning materials, office equipment and sporting equipment
<b>B</b>	Assisting students to return to the classrooms (to learn) (i) Enabling students to participate in activities in schools designed to help them share, talk about and deal with their traumatic experience of the cyclone (ii) Ensuring all students are equipped with school uniforms and school packs (iii) Supply of nutritional meals (breakfast/lunch) daily during the school week
<b>C</b>	Ensuring teachers are prepared to resume their teaching and administrative duties and responsibilities (i) Providing teachers with pastoral support and counseling to help them recover from their traumatic experience and to deal with their loss of personal possessions. (ii) Carrying out repairs and maintenance to the damaged staff houses
<b>D</b>	Working with and encouraging parents and the community to support the students and teachers in rebuilding and restoring a positive and conducive learning environment and a more resilient community.

**Activity A1:**

<b>Agency</b>	<b>Ministry of Education and Training</b>
<b>Description</b>	<p>Improve learning and teaching physical environment through the following:</p> <ol style="list-style-type: none"> <li>1. Engaging military personnel, volunteers and teachers to continue and complete the clearing of debris and thorough cleaning of school buildings and compounds of all schools in Ha'apai.</li> <li>2. The provision of 28 NEW water tanks to all schools by the NEMO.</li> <li>3. Desalination of water to be carried out by the Tonga Water Board</li> <li>4. Fumigation of all school compounds by the Ministry of Health</li> <li>5. Thorough inspection and clearance of all electric wiring by Tonga Power Ltd prior to restoration of power supply to each school</li> <li>6. Construction of 6 new and repair of 8 toilet blocks by the Ministry of Infrastructure</li> <li>7. MOH and MOI removal of asbestos from GPS Mata'aho on Uiha</li> <li>8. NEMO provision of nine (9) well ventilated tents/temporary shelters e.g. marquees (average 20ft x 20ft)</li> <li>9. Immediate NEMO provision and donations of 145 desks (2 students per desk) and 145 forms (2 students per form)</li> <li>10. Erection of four (4) temporary partitions at Ha'apai High School Hall for GPS Pangai students AND 3 partitions at Ofamo'oni Primary School by NEMO</li> <li>11. Provision and appropriate mounting of sixty one (61) blackboards (6ft x3ft in measurement) by NEMO</li> </ol>
<b>Beneficiaries</b>	Primary and secondary students and staff of all schools and the communities in Ha'apai
<b>Partners</b>	MET, NEMO, MOI, MOH, Military, Tonga Water Board, TPL
<b>Budget</b>	<p>Requirement \$ 236,519<sup>4</sup>  Funded T\$ 13,049  Unmet T\$ 223,470</p> <p>NOTE: <i>Costs of Repairs and Construction of Schools to be estimated by MOI based on Details of Schools Damage in Annex.</i></p>
<b>Expected Outputs and Impacts</b>	<ul style="list-style-type: none"> <li>• The restoration of clean, safe, secure and conducive learning and teaching environments for all students and teachers in Ha'apai.</li> <li>• The provision of basic needs i.e. drinking water, sanitation and shelter for all schools</li> <li>• Zero injury of students and teachers in schools.</li> <li>• The earliest return of students to schools and the commencement of the 2014 academic year for Ha'apai schools.</li> <li>• The restoration of normalcy in lives of students, teachers and communities.</li> </ul>

**Activity A2:**

<b>Agency</b>	<b>Ministry of Education and Training</b>
<b>Description</b>	<p><b>Improve access to learning and teaching resources</b></p> <ol style="list-style-type: none"> <li>1. Printing and distribution of relevant curriculum materials (Readers, Student Workbooks, Teacher Guides, Textbooks) and reading books to all primary and secondary schools by MET</li> <li>2. Supply of reading books to all primary and secondary schools by NEMO and Donors</li> <li>3. NEMO and Donor contribution of office and teaching equipment (printers, photocopiers, overhead projectors, PCs)</li> <li>4. NEMO supply of teaching accessories (chalk, dusters)</li> <li>5. NEMO, Ministry of Internal Affairs and Donor contribution of sporting equipment (soccer, rugby, netball and volleyball nets and balls, skipping ropes, hoops, etc) to all primary and secondary schools</li> </ol>
<b>Beneficiaries</b>	All primary and secondary students, teachers and communities in Ha'apai
<b>Partners</b>	MET, NEMO, MIA and Donors
<b>Budget</b>	<p>Requirement \$ 344,699  Funded T\$ 12,358  Unmet T\$ 332,341</p>
<b>Expected Outputs and Impacts</b>	<ul style="list-style-type: none"> <li>• The return of laughter, gaiety and enthusiasm in students' lives on Ha'apai</li> <li>• The earliest return to learning and teaching for Ha'apai students and teachers</li> <li>• More positive environment created through shared activities and participation of the communities in the welfare and education of their children</li> <li>• The restoration of normalcy in lives of students, teachers and communities.</li> </ul>

<sup>4</sup> Estimated Costs for Water Tanks, Toilets, Tents, Blackboards

**Activity B1:**

<b>Agency</b>	<b>Ministry of Education and Training</b>
<b>Description</b>	<ol style="list-style-type: none"> <li>1. Engagement of relevant agencies e.g. Catholic Counseling Team to partner with teachers in conducting appropriate activities (morning talk, poetry, drawing, painting, games etc)</li> <li>2. Provision of school uniforms by NEMO and Salvation Army of NZ, Fiji, Tonga</li> <li>3. Supply of school packs and tents by UNICEF</li> <li>4. Immediate supply of nutritional breakfast and lunch packs during Term 1 for all primary and secondary students in Ha'apai</li> </ol>
<b>Beneficiaries/ Location</b>	All primary and secondary students, teachers and communities in Ha'apai
<b>Partners</b>	MET, NEMO, UNICEF, Counseling Agencies, Salvation Army and Donors
<b>Budget</b>	Requirement T\$ 1,311,907 Funded T\$ 106,577 Unmet T\$ 1,205,330
<b>Expected Outputs and Impacts</b>	<ul style="list-style-type: none"> <li>• Adequate counseling opportunities and support provided to students</li> <li>• Equity in the provision of basic necessities for students to ensure that no student is prevented (as a result of the cyclone) from returning to school</li> <li>• Assurance of daily sustenance of all students whilst their families recover and regain ability to provide daily meals and necessities</li> </ul>

**Activity C1:**

<b>Agency</b>	<b>Ministry of Education and Training</b>
<b>Description</b>	Support to teachers through: <ol style="list-style-type: none"> <li>1. Engagement of relevant agencies to partner with MET in providing appropriate counseling and support to teachers</li> <li>2. Construction of 8 new houses and repairs to 18 damaged staff houses (as per attached list)</li> </ol>
<b>Beneficiaries</b>	All primary and secondary students, teachers and communities in Ha'apai
<b>Partners</b>	MET, NEMO, MOI, Military and Donors
<b>Budget</b>	Requirement T\$ 802,010 Funded T\$ 797,010 Unmet T\$ 5,000
<b>Expected Outputs and Impacts</b>	<ul style="list-style-type: none"> <li>• Adequate counseling opportunities and support provided to staff</li> <li>• Provision of basic shelter and restoration of homes for teachers on Ha'apai</li> <li>• Encouraging and strengthening the resilience of teachers to cope with the traumatic experience and to actively return to their teaching and administrative responsibilities</li> </ul>

**Activity D1:**

<b>Agency</b>	<b>Ministry of Education and Training</b>
<b>Description</b>	Community support <ol style="list-style-type: none"> <li>1. MAFFF supply of plants and seedlings for creation and provision of shades, food and aesthetic enhancement of home and school environments on Ha'apai islands</li> <li>2. NEMO supply of tools for planting and maintenance of trees, plants and gardens</li> <li>3. Partnership between schools and PTA to continue and sustain tree planting and food security initiatives</li> <li>4. Engagement of relevant agencies to partner with church leaders in providing continued support and counseling to the communities</li> </ol>
<b>Beneficiaries</b>	All primary and secondary students, teachers and communities in Ha'apai
<b>Partners</b>	MET, NEMO, MAFF, PTA, Church Leaders and Relevant Agencies
<b>Budget</b>	Requirement T\$ 16,200 Funded T\$ 5,600 Unmet T\$ 10,600
<b>Expected Outputs and Impacts</b>	<ul style="list-style-type: none"> <li>• Inclusiveness in the rehabilitation and reconstruction efforts</li> <li>• The development of a sustainable source of food and livelihood for the people of Ha'apai</li> <li>• Emotional and spiritual healing of the members of the communities</li> <li>• Better and closer relationships amongst the communities as they work together to recover from the aftermaths of the cyclone</li> <li>• The restoration of normalcy in the daily lives of the communities in Ha'apai.</li> </ul>



## Shelter

<b>Lead Agency</b>	NEMO (Emergency Shelter) / MoI (Housing Reconstruction)	
<b>Key Partners</b>	TRCS, Ministry of Public Infrastructure; Australia DFAT, New Zealand MFAT, Caritas, JICA, World Bank and China Aid.	
<b>Contact Information</b>	Leveni Aho, Director, NEMO, Ministry of Infrastructure	Fotu Veikune, Senior Architect, Ministry of Infrastructure

### Needs Analysis

Of the estimated 1,000 households<sup>5</sup> in the 18 affected communities an estimated 450 homes were destroyed and 350 homes were heavily damaged bringing the total number of homes requiring reconstruction to 800<sup>6</sup>. The majority of households have been provided with either tarps (536), tents (302) and shelter kits (400) which are still being distributed. Based on a household figure of 800 households destroyed and heavily damaged, 37% have received tents, 67% have received tarps and eventually and additional 63% will receive one of the shelter kits currently being distributed.

While the majority of emergency shelter needs have been addressed, procuring additional tents & providing local materials to establish transitional shelters to fill outstanding gaps and to replace damaged tents and tarps is an urgent priority. Distribution of recovery tools kits to communities to allow affected persons to begin salvaging and removing storm debris. Recovery kits remain in the communities and can then be used for early recovery and livelihood projects. An agreed shelter strategy across government ministries and partners relief and recovery partners supporting the sector is required to ensure a safe and quick return to appropriate housing for all families by 2015.

While the majority of emergency shelter needs have been addressed, procuring additional tents to fill outstanding gaps and to replace damaged tents and tarps is an urgent priority. An agreed shelter strategy across government ministries and partners relief and recovery partners supporting the sector is required to ensure a safe and quick return to appropriate housing for all families by 2015.

Affected households can be broadly broken down into the following:

1. Families with destroyed/heavily damaged homes sleeping in evacuation centers
2. Families with destroyed/heavily damaged homes, with tents or shelter kits (sleeping in evacuation centers or tents)
3. People living in damaged homes requiring varying levels of rehabilitation

The first group will urgently require tents or shelter kits. All families in the first two categories will require transitional shelter while efforts are undertaken to rebuild their homes which will take an estimated 12-18 months. Families in all three categories will need to be considered in a Shelter strategy that clearly identifies the priority groups to be targeted, addressing the needs of the most vulnerable as a priority. Ensure that safer building practices are used in all repairs and reconstruction. Develop 'Build Back Better' hand-outs to be shared amongst the community.

<sup>5</sup> Post cyclone assessment data has suggested that the number of households may currently exceed 1,100.

<sup>6</sup> Estimate based on MoI survey of 23 January of damaged and destroyed buildings: 534 destroyed buildings and 398 heavily damaged buildings (total 932 damaged and destroyed buildings requiring reconstruction).

## Sectoral objectives

<b>A</b>	Based on existing data and gap analysis, any outstanding needs for emergency shelter are addressed by second week of February with appropriate NFI (Tents, Shelter kits, tarpaulins).
<b>B</b>	Develop shelter strategy identifying standards and process of taking families from Emergency shelter to transitional shelter to full reconstruction of damaged and destroyed homes in 12-18 months.
<b>C</b>	By the end of May 2014, 800 households are provided with transitional shelter.
<b>D</b>	All affected families are living in reconstructed or rehabilitated homes within 18 months.

## Proposed sector activities

### Activity A1

<b>Agency</b>	<b>TRCS</b>
<b>Description</b>	Identify gaps in emergency shelter and provide additional tents. Based on preliminary analysis an additional 200 tents will be required. Possible sourcing from Australia under strong consideration. Available in Nuku'olofa within 7 days of request.
<b>Beneficiaries</b>	Throughout affected communities of Ha'apai
<b>Partners</b>	NEMO
<b>Budget</b>	Requirement T\$
<b>Expected Outputs</b>	Remaining emergency shelter gaps filled by 15 February through the provision of 200 additional tents. (this will bring overall coverage of tents to 50% and

### Activity A2

<b>Agency</b>	<b>NEMO</b>
<b>Description</b>	Replacement tents and some restocking of NEMO shelter contingency stocks. Requirements: 400 tents (est. T\$ 800 per unit or T\$ 320,000 total), CA funded 500 shelter kits (est. T\$ 800 per unit or T\$ 400,000 total), 185 pcs Rotary NZ 800 pcs tarpaulin 6X4 m (est. T\$ 150 per unit or T\$120,000 total)
<b>Beneficiaries/ Location</b>	Ha'apai affected communities - to replace damaged tents if needed prior to transitional shelter completion; Residual stocks to be stored by NEMO and TRCS as contingency stocks in the event of another emergency
<b>Partners</b>	TRCS, Rotary NZ, China Aid, ...
<b>Budget</b>	Requirement T\$ 840,000 Funded T\$ 431,000 Unmet T\$ 409,000
<b>Expected Outputs</b>	Surplus shelter supplies for use in Ha'apai should the need arise and for contingency stock in Tonga

### Activity A3

<b>Agency</b>	<b>NEMO, TRCS &amp; local NGO's to be confirmed</b>
<b>Description</b>	Distribution of recovery tools kits to allow affected communities to salvage materials and clean up storm damage. Tools include Saws, hammers, shovels, crow bars, wheel barrows, nails, tie wire and brooms. Kits to be distributed to communities
<b>Beneficiaries/ Location</b>	All Ha'apai affected communities with initial distribution targeted to communities that are isolated and yet to have markets access reestablished.
<b>Partners</b>	To be confirmed...
<b>Budget</b>	At T\$400 per kit and distribute 30 kits + T\$7 000 for logistics Requirement T\$ 19 000 Funded T\$ 0 000 Unmet T\$ 19 000
<b>Expected Outputs</b>	Assisting affected populations to start the process of self-recovery and provide tools for livelihoods in the future.

**Activity A4**

<b>Agency</b>	<b>NEMO</b>
<b>Description</b>	Restocking of NEMO warehouse in Nuku'alofa: WASH kits, H2O supplies, Chainsaws, generators, tents, tarpaulins, tools, etc
<b>Beneficiaries</b>	All of Tonga
<b>Partners</b>	To be confirmed
<b>Budget</b>	Requirement T\$ 600 000 Funded T\$ Unmet T\$ 600,000
<b>Expected Outputs</b>	Fully restock NEMO warehouse

**Activity B1**

<b>Agency</b>	<b>Mol</b>
<b>Description</b>	Establish an assessment and monitoring system that will support adequate and timely transition to the recovery phase through a clear comprehension of the changing needs of the affected population.
<b>Beneficiaries</b>	Affected populations of Ha'apai with attention to most affected and vulnerable household with relation to shelter.
<b>Partners</b>	TRCS. Ha'apai Group Governor's Office
<b>Budget</b>	Requirement T\$ 0 (to be integrated into the reconstruction programme)
<b>Expected Outputs and Impacts</b>	Baseline data on damaged and destroyed homes confirmed, and (bi)weekly monitoring reports on progress made moving families from evacuation centers to emergency shelters, to transitional shelters to reconstructed homes.

**Activity B2**

<b>Agency</b>	<b>MOI</b>
<b>Description</b>	<b>Develop Shelter strategy</b> to provide general guidelines, principles, and standards to ensure cyclone affected households appropriate shelter materials and training to build adequate safe and habitable shelters in accordance with local standards, and the relevant minimum standards (from the 'Humanitarian Charter and Minimum Standards in Disaster Response' 2011).
<b>Beneficiaries</b>	800 affected households of Ha'apai
<b>Partners</b>	TRCS
<b>Budget</b>	Requirement T\$ - To be determined
<b>Outputs</b>	Shelter strategy agreed by March 2014

**Activity C1**

<b>Agency</b>	<b>Mol, TRCS</b>
<b>Description</b>	<b>Transitional shelter:</b> Provide material support and 'build back safer' training to families and mobilise skilled labor to support the construction of 800 transitional shelter packages. Each household to receive materials, training and support to construct transitional shelter which can be future annex of reconstructed home and a fale. (Estimated cost fale and transitional building T\$ 8,000 per unit)
<b>Beneficiaries</b>	Affected populations of Ha'apai with attention to most affected and vulnerable.
<b>Partners</b>	Mol, NEMO, faith based organizations, Australia DFAT, ...
<b>Budget</b>	Requirement T\$ 6.4 million Funded T\$ 0 Unmet T\$ 6.4 million
<b>Expected Outputs</b>	Families stabilized in transitional shelter while reconstruction planning continues.

**Activity D1**

<b>Agency</b>	<b>MoF</b>
<b>Description</b>	Reconstruction and rehabilitation of 800 damaged and destroyed homes across Ha'apai. Estimated cost T\$ 60,000 per unit. The design package for Niua considered
<b>Location</b>	Ha'apai damaged
<b>Partners</b>	World Bank
<b>Budget</b>	Requirement T\$ 48.0 million Funded T\$ 0 Unmet T\$ 48.0 million
<b>Expected Outputs</b>	Affected communities of Ha'apai return to reconstructed and rehabilitated homes within 18 months of TC Ian.

## Safety and Protection

<b>Lead Agency</b>	Ministry of Internal Affairs
<b>Key Partners</b>	LDS, Caritas, Council of Churches, TRCS, Forum of Churches, UNW, OHCHR, UNICEF, OCHA, UNFPA,
<b>Contact Information</b>	Lopeti Senituli (CEO MIA) <a href="mailto:losenituli@hotmail.com">losenituli@hotmail.com</a> Polotu Paunga (DCEO MIA) <a href="mailto:polotu@gmail.com">polotu@gmail.com</a>

### Needs Analysis

Primarily, the overarching need within the Safety and Protection Cluster is to ascertain information related to the needs of vulnerable groups, the strengths and capacities within communities and existing actors and gaps in protection needs in Ha'apai. Additional needs include: to build understanding and capacity among government and nongovernment actors on safety and protection related issues; the inclusion of vulnerable groups in access to humanitarian assistance; and tailoring humanitarian interventions to address the specific needs of vulnerable groups.

Vulnerable groups including women, children, youth, infants, the elderly and persons with disability need special attention in the wake of TC Ian. In the Tonga 2011 census of population and housing, of the 6,616 total population of Ha'apai, there were 3,210 women, 1,094 girls, 831 infants, 523 youth, 154 (75+yrs) elderly and 1,199 persons with disability.

There is an urgent need to confirm the numbers of vulnerable groups in affected areas of Ha'apai including formal evacuation centres, but with particular emphasis on informal evacuation centres, including private housing with extended families. There are a number of organizations providing psychosocial services which require stronger coordination as currently there is no clarity on who is providing what services in which villages. Increased coordination of psychosocial service providers will maximize support to the affected population.

Raising awareness and understanding of Protection principles and priorities across the clusters needs to be part of the Disaster Response and Recovery Efforts. Protection Messages need to be communicated to reach all affected population groups. Dissemination of messages should also reach evacuation centres. Messages could also be combined with other Clusters such as WASH. Mainstreaming of Protection principles through all the other clusters will need technical support from Partners. Monitoring of Protection concerns and support mechanisms will be strengthened and sustained through establishment or strengthening of existing community protection committees.

Children, Persons with Disability, the Elderly and Displaced persons need support to get back to their daily routines and available emergency resource kits would support this. Protection concerns such as the increased risks of family violence, child abuse, and exploitation of vulnerable individuals need to be addressed as appropriate. Special focus on registration of vulnerable groups including persons with disability should also be included. Information dissemination and community participation is also critical as well as counseling for displaced persons.

There is also great concern about combatting the onset of NCDs in the wake of TC Ian as the affected population will inevitably undergo a change in daily habits as well as diet and it is important that regular physical exercise including sports and recreational activities are encouraged and maintained.

There is also a need to carry out an assessment of the damage inflicted by TC Ian on tangible historical and cultural sites in the affected area with the aim of restoration in the long term.

## Sectoral objectives

<b>A</b>	To ensure safety, protection and dignity of women, men, young people, children and especially vulnerable groups impacted by TC Ian
<b>B</b>	A consolidated response to TC Ian will not be complete without conducting a needs analysis assessment of vulnerable groups to include women, men, children, infants, elderly and the disabilities impacted by TC Ian
<b>C</b>	To ensure that all actors are aware of the specific needs of vulnerable groups hence there is a need for information dissemination on protection & safety principles and priorities
<b>D</b>	An identification of available and required resources is needed to maximize the facilitation of the protection and safety for vulnerable groups

### Activity B1

<b>Agency</b>	<b>MIA, TNCC, Caritas, TRCS, NEMO</b>
<b>Description</b>	Needs analysis of vulnerable groups in Ha'apai. Collect the most relevant data regarding vulnerable groups.
<b>Objective(s)</b>	Accurate and segregated data on the vulnerable groups
<b>Beneficiaries</b>	Affected areas and the most vulnerable groups
<b>Partners</b>	UNOCHA, UNWOMEN, UNOHCHR
<b>Budget</b>	Requirement T\$ 8,000 Funded T\$ Unmet T\$ 8,000
<b>Expected Impacts</b>	That the most accurate update of data of the vulnerable groups in affected areas of Ha'apai islands

### Activity B2

<b>Agency</b>	<b>MIA, Caritas, TNRCS, TNCC, CLF, FWC</b>
<b>Description</b>	Stock-take service providers of the psychosocial networks, what they do and where is their respective coverage. Coordinate service providers of psychosocial matters to maximize services to vulnerable groups
<b>Objective(s)</b>	Ensure full coverage of affected villages in Ha'apai
<b>Beneficiaries</b>	Population of the affected area.
<b>Partners</b>	UNWOMEN, UNOHCHR, UNFPA
<b>Budget</b>	Requirement T\$ 8,000 Funded T\$ Unmet T\$ 8,000
<b>Expected Impacts</b>	Availability and accessibility of psychosocial services

### Activity B3:

<b>Agency</b>	<b>MIA,</b>
<b>Description</b>	Coordinate and consolidate networks of the protection related service providers what they do and where is their respective coverage. Referral pathway and service mapping
<b>Objective(s)</b>	Better coordination between Protection service providers.
<b>Beneficiaries</b>	Population of affected area.
<b>Location</b>	Affected areas
<b>Partners</b>	OHCHR, UN Women, UNOCHA
<b>Budget</b>	Requirement T\$ 3,000 Funded T\$ Unmet T\$ 3,000
<b>Expected Impacts</b>	Coordinated services available and accessible for affected population with an emphasis on the needs of vulnerable groups

**Activity B4**

<b>Agency</b>	<b>MIA, TNCLF, Caritas</b>
<b>Description</b>	Building capacities of Counsellors and networks. A network of organizations that provide psychosocial services is established and ensuring counselors all use the same standardized format
<b>Objective</b>	To ensure a standardized format is used by all counselors through training and networking
<b>Beneficiaries</b>	Population of the affected areas
<b>Partners</b>	UNOHCHR, UNWOMEN, UNICEF, UNFPA
<b>Budget</b>	Requirement T\$ 20,000 Funded T\$ Unmet T\$ 20,000
<b>Expected Impacts</b>	Accessible and available counseling services throughout Ha'apai

**Activity: B5**

<b>Agency</b>	<b>MIA, AfP(TNCC)</b>
<b>Description</b>	Protection Monitoring and strengthening of Community Protection Committees. To mobilize existing VECs as community protection committees to monitor protection concerns within the affected population. VECs would include representatives from vulnerable groups including women, youth, persons with disabilities, and the elderly. Provide refresher training to and strengthening of existing VECs. VECs will act as central points for community consultation, information, referral and protection monitoring activities
<b>Objective</b>	Monitoring of ongoing or new protection concerns within the community and offer point of contact for protection concerns
<b>Beneficiaries</b>	Vulnerable groups and members of the affected population
<b>Partners</b>	OHCHR, UNWomen, UNICEF
<b>Budget</b>	Requirement T\$ 10,000 Funded T\$ Unmet T\$ 10,000
<b>Expected Impacts</b>	Sustainable protection mechanisms in the short, medium and long term response and recovery

**Activity C1**

<b>Agency</b>	<b>MIA, Caritas, TNRCs</b>
<b>Description</b>	Raise Awareness amongst the affected population and all other Humanitarian service providers and cluster agencies of Protection and Safety Principles and services through training, leaflets, radio and TV and social media and telecommunication services. There is awareness of the Protection and Safety Principles that would support the most vulnerable groups. Additionally, affected population (including vulnerable groups) have access to information on available services and other matters which affect their lives
<b>Objective(s)</b>	Mainstreaming protection and safety principles
<b>Beneficiaries</b>	Population of the affected areas
<b>Partners</b>	UNOCHA, UNWOMEN, UNOHCHR
<b>Budget</b>	Requirement T\$ 13,000 Funded T\$ Unmet T\$ 13,000
<b>Expected Impacts</b>	Protection and safety principles are mainstreamed in all the clusters and awareness is raised for all actors and the affected population

**Activity C2**

<b>Agency</b>	<b>MIA, Ministry of Health, ASOP, MAFFF, Tonga Health, HPCP</b>
<b>Description</b>	Mainstream awareness of NCD's and possible Disease outbreaks for vulnerable groups, including pregnant and lactating women; and organize and promote sports and physical exercise among the affected population. Raise awareness of NCDs and possible outbreak of diseases and Organize and promote sports and physical exercise among the affected population.
<b>Objective(s)</b>	To raise awareness of disease outbreaks post cyclone
<b>Partners</b>	UNICEF, UNFPA
<b>Budget</b>	Requirement T\$ 30,000 Funded T\$ Unmet T\$ 30,000
<b>Expected Impacts</b>	Awareness of how to combat and avoid outbreak of diseases

**Activity: C3**

<b>Agency</b>	<b>MOI, MOJ, OAG, MCELS</b>
<b>Description</b>	Information and advice related to housing land, property issues, and civil documentation. Housing, Land, and Property disputes are common following a disaster and some land may no longer be viable (for either agricultural purposes or residence). Civil documentation may be lost or destroyed thereby leaving affected population without essential nationality documentation and identification Provide information to affected population on: <ul style="list-style-type: none"> <li>• Housing land and property related issues such as in the case of unviable return options, land disputes- options for resolution (formal and traditional); and replacement of title deeds</li> <li>• Information and assistance on replacement of civil documentation (e.g. passport, birth certificates and other nationality documents)</li> </ul>
<b>Objective(s)</b>	Provide relevant legal information and advice related to civil documentation and HLP
<b>Beneficiaries</b>	Vulnerable groups and members of the affected population
<b>Partners</b>	UNOHCHR and UNDP, UNHabitat
<b>Budget</b>	Requirement T\$ 10,000 Funded T\$ Unmet T\$ 10,000
<b>Expected Impacts</b>	Provide accurate information on HLP and Civil documentation issues arising due to TC Ian

**Activity: C4**

<b>Agency</b>	<b>MIA, NEMO, AfP(TNCC)</b>
<b>Description</b>	Registration of displaced population and host communities. Register all displaced populations currently in formal and informal Evacuation Centres, returnees and host communities/families
<b>Objective(s)</b>	Ensure equal access to humanitarian assistance and information to all affected populations
<b>Beneficiaries</b>	Vulnerable groups and members of the affected population
<b>Partners</b>	UN women, OHCHR, UNHCR
<b>Budget</b>	Requirement T\$ 2,000 Funded T\$ Unmet T\$ 2000
<b>Expected Impacts</b>	Key agencies and government departments have accurate information relating to affected populations.

**Activity D1**

<b>Agency</b>	<b>MIA, NEMO, TNRCS</b>
<b>Description</b>	To ensure critical resources are available to vulnerable groups. Emergency shelters and schools are provided with available resources such as Recreational Kits, Dignity Kits, Hygiene Kits and Emergency Kits as appropriate and any other resources required
<b>Objective(s)</b>	To provide appropriate resources as required by specific vulnerable groups to support their recovery from the impact of TC Ian
<b>Beneficiaries</b>	Affected areas
<b>Partners</b>	UNICEF, UNFPA
<b>Budget</b>	Requirement T\$ 50,000 Funded T\$ Unmet T\$ 50,000
<b>Expected Impacts</b>	That affected population are supported to move on with their daily lives and rehabilitation

**Activity D2**

<b>Agency</b>	<b>MIA, MET, UNESCO</b>
<b>Description</b>	Carry out an assessment of the damages to the tangible historical and cultural sites in the affected areas including Makahokovalu, hieroglyphics on Foa Island
<b>Objective(s)</b>	To support affected communities in restoring their heritage
<b>Beneficiaries</b>	All of Tonga
<b>Partners</b>	UNESCO (Prince Claus Fund)
<b>Budget</b>	Requirement T\$ 10,000 Funded T\$ Unmet T\$ 10,000
<b>Expected output</b>	Inventory of damages done to Historical and cultural sites in affected areas



## Food Security and Livelihoods

<b>Lead Agency</b>	Ministry of Agriculture <sup>7</sup> and Food, Forests and Fisheries (MAFFF)
<b>Key Partners</b>	FAO, Food Security Clusters, SPC LRD, New Zealand Government, MORDI Tonga Trust, UNDP, Tonga National Youth Congress, OXFAM
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### Needs Analysis

TC Ian resulted in extensive loss of crops, livestock, fisheries and other livelihoods assets primarily in four sub-districts of north-eastern Ha'apai, with damage also sustained in southern Ha'apai and a single district in Vava'u. An estimated 95% of root crops have been damaged<sup>8</sup> (mostly cassava) which are the staple food (at least 80% of local food source) for the entire population. In addition there was extensive loss of planting materials and farming tools in homes and the sole local nursery, owned by MAFFF, was destroyed. The impact of TC Ian are exacerbated by the drought which has affected Ha'apai since April 2013 and is forecasted to continue until May 2014, further hampering the recovery of household food security.

The affected population will be without local staple food supply by end of January 2014 and until at least mid-April when the first harvest from fast-growing food crops is anticipated<sup>9</sup>. Furthermore, given the impact on leafy foods such as vegetables, which is near total, this will undermine protein content of the affected population's diet. Other impacts on the agriculture sector include significant numbers of fallen trees which hamper transportation and mobility of farming communities, and will likely foster pests and disease. As such, the necessity to rapidly clear land and plant sweet potato, corn and leafy vegetables is of critical importance. In the fisheries sector, there has been significant damage (between 60 to 70%) to fishing boats and implements (nets and engines), and fisheries assets (MAFFF workshops providing repair services). This has had an impact on the fishing community's capacity to resume this productive activity. For livestock -- primarily pigs -- the impacts are a critical shortage, following consumption of the fallen coconuts, of livestock feed as grasses and shrubs have been severely affected by salt spray. Imported animal feed will be required for a minimum of three months. The current livestock population will also require confinement in order to curtail pigs' consumption of new growing crops<sup>10</sup>. Current planning figures indicate 1,200 households require assistance in agricultural recovery and will be targeted under this plan.

The livelihoods of the affected populations have thus been impacted in terms of food security), loss of income, labour and employment, access to markets and impacts on the business community (formal and informal). This is primarily due to damages to crops such as coconut palm trees, fishing material and equipment, the tourism industry and small businesses as well as inter-island transportation. Women have mainly been affected through the loss of raw materials e.g. weaving material (pandanus crops, estimated to be completely destroyed and with a recovery period of 12 months). There are few alternative income generating activities for women and as such this has reduced income options for the coming period. There has also been a significant increase and reliance on family remittances and donations from overseas and in Tongatapu.

Access to markets is also a key issue as a number of shops have been damaged or have had to shut down, and supplies are becoming limited. Transportation to these shops is constrained

<sup>7</sup> Agriculture covers the area of crops, livestock and trees

<sup>8</sup> A complete damage assessment is underway, the results of which are to be issued on 31 January 2014. Figures provided in this plan are based on rapid assessment and initial data analysis.

<sup>9</sup> Distribution by MAFFF of inputs for vegetables, sweet potato and corn is due to commence by early February.

<sup>10</sup> MAFFF survey

and expensive. Business activity has taken a severe downturn, pushing businesses to rely more on their savings and donations from outside. They have not only lost vital tools for revenue generation but also their stock. The tourism sector (resorts, accommodation, whale-watching operators, handicraft), the most significant sector in the local economy, has severely affected all the 12 tourism accommodation businesses<sup>11</sup> with extensive damages to their facilities, resulting in cancelled bookings and a severe down-turn in future business – leading to a reduced labour force and subsequent impacts on the local economy<sup>12</sup>.

Overall the impact on the welfare of the people will require immediate-medium- and long-term action. Approaches to address these issues could include, in the short term, cash-for-work (e.g. for debris clearance, repair of small-scale infrastructure, cleaning of water tanks) which helps to sustain household income whilst the local economy recovers; and provision of equipment and tools for the farming and fishing communities, and provision of basic building materials for the repair of small scale tourism accommodation businesses to cater for the increase inflow of consultancy teams and assistance groups from Tonga and abroad. Medium-term livelihood recovery programmes would include support to the production of longer-term food crops (cassava and taro) for local consumption and sale in support of household food security and lack of dependence on food aid; increased production capacity for fisheries and livestock; increased production capacity for mat weavings and handicraft making in support of household income generations; supporting access to markets (existing and new); training and marketing programmes for small scale businesses (formal and informal). There is a concern that if these issues are not addressed soon, that this could encourage a degree of migration away from the local economy<sup>13</sup>.

### Sectoral objectives

<b>A</b>	To ensure that the affected communities have timely and appropriate access to food and emergency supplies
<b>B</b>	To restore and enhance the affected population's productive capacity for <b>crops, livestock, and fisheries</b> through provision of resources and services
<b>C</b>	To restore and enhance economic livelihoods for the affected people and businesses

### Proposed sector activities

#### ACTIVITY A1:

<b>Lead Agency</b>	<b>NEMO</b>
<b>Description</b>	Distribution of emergency food ration and services. Food ration distributed timely and adequately. NEMO will provide an three week food ration (flour, rice, sugar, tinned meats, etc) three times over the next three months (until April). This will be supplemented by faith based organisations which will provide food aid to the affected population for one week on a rotational basis until April (3 months).
<b>Objective(s)</b>	Affected population are food secured with nutritious and healthy food
<b>Beneficiaries</b>	The people of Ha'apai and Vava'u
<b>Partners</b>	Faith based organisations in Ha'apai.
<b>Budget</b>	Requirement T\$ 750,000 Funded T\$ 750,000 (TBC) Unmet T\$ 750,000
<b>Expected impacts</b>	Affected population are sustainably food secured

<sup>11</sup> Ha'apai tourism accommodation facilities – preliminary assessment report (15th January, 2014)

<sup>12</sup> Based on survey by TNYC / Oxfam

<sup>13</sup> *ibid*

**ACTIVITY B1:**

<b>Lead Agency</b>	<b>MAFFF</b>
<b>Description</b>	Assessment of agriculture and fisheries damage and loss completed (led by MAFFF in partnership with MORDI TT, FAO, TCDT and TNYC/Oxfam). Report due 31st Jan 2014.
<b>Objective</b>	A comprehensive and accurate assessment report is submitted to relevant authorities and utilized effectively for further planning processes
<b>Beneficiaries</b>	The people of Ha'apai and Vava'u and the economy in general
<b>Partners (to date)</b>	FAO, Food Security Clusters, New Zealand Government, MORDI Tonga Trust, Tonga National Youth Congress, OXFAM,
<b>Budget</b>	Requirement T\$ 100,000 Funded T\$ 50,000 Unmet T\$ 50,000
<b>Expected Outputs and impacts</b>	All relevant assessments consolidated into a comprehensive assessment report in which policy makers and donor agencies refer to as evidences by which critical financial decisions are made From the agriculture and fisheries point of view, the report will provide a good baseline in which future assessments can follow

**ACTIVITY B2:**

<b>Lead Agency</b>	<b>MAFFF</b>
<b>Description</b>	Immediate recovery of local food crops. Immediate restoration of crops and livestock for local consumption. (35 communities, Lulunga and Motu included). Provision of agriculture and fishing equipment (goods-in-kind e.g. seedlings, hoes, bush knives, forks) Community-based participatory Training, Planning promotion of healthy food preparation and consumption, and M&E
<b>Objective(s)</b>	Local foods available to communities immediately within 1 month
<b>Beneficiaries</b>	The people of Ha'apai and Vava'u and the Economy in general
<b>Partners</b>	NZ Government, Rotary NZ,
<b>Budget</b>	Requirement T\$ 415,000 Funded T\$ 115,000 Unmet T\$ 300,000
<b>Outputs</b>	400 acres of crops planted by approximately 1200 households Initial food supply available for 1200 households (1 month for vegetables, 3-4 months for corn and sweet potato 150 fishing households are able to resume fishing activity

**ACTIVITY B3:**

<b>Lead Agency</b>	<b>MAFFF</b>
<b>Description</b>	Medium-term agriculture recovery. Assist MAFFF and partners to develop National Disaster Risk Management Plan
<b>Objective(s)</b>	Agriculture policies and interventions that support disaster risk reduction, increase resilience of farming and fishing and live-stock owning communities, and introduce climate change adaptation approaches and technologies
<b>Beneficiaries</b>	The people of Tonga and economy in general
<b>Partners</b>	PRRP, TNYC/Oxfam and others
<b>Budget</b>	Requirement T\$ 100,000 Funded T\$ 0 Unmet T\$100,000
<b>Expected Outputs</b>	Participatory DRM plan in use by MAFFF and other stakeholders in the recovery and rehabilitation of agriculture sector. Communities trained and increasing resilience to prepare for and respond to crises in the areas of farming, fishing and livestock Partners informed and linkages made to existing policies such as the Joint National Action Plan for Climate Change Adaptation and Disaster Risk Management 2010-2015, the National Infrastructure Investment Plan (2010), etc.

**ACTIVITY B4:**

<b>Lead Agency</b>	<b>MAFFF</b>
<b>Description</b>	Fisheries immediate recovery. Immediate restoration of fisheries assets and services for the fisheries sector in Ha'apai for fisheries production, processing and consumptions
<b>Objective(s)</b>	That private fishermen basic fishing tool and services restored.
<b>Beneficiaries</b>	150 fishing households in Ha'apai and Vava'u
<b>Partners (to date)</b>	TNYC/OXFAM
<b>Budget</b>	Requirement T\$ 200,000 Funded T\$ Unmet T\$ 200,000
<b>Expected impacts</b>	Affected communities access to and actively involved in fishing for food and cash

**ACTIVITY B5:**

<b>Lead Agency</b>	<b>MAFFF</b>
<b>Description</b>	Fisheries medium-term recovery. To include all island communities in Ha'apai and Vava'u in the Special Management Areas (SMA) -- conservation areas -- government and community-based program as a means of supporting sustainable economic and social security
<b>Objective(s)</b>	All the Ha'apai and Vava'u island communities operate SMA
<b>Beneficiaries</b>	The people of Ha'apai and Vava'u and the economy in general
<b>Partners</b>	
<b>Budget</b>	Requirement T\$ 200,000 Funded T\$ Unmet T\$ 200,000
<b>Expected Outputs and impacts</b>	<ul style="list-style-type: none"> <li>All island communities operate SMA and therefore</li> <li>Utilize them sustainably in time of natural disasters as source of immediate income and food</li> <li>35 - 4 SMA = 31 communities yet registered</li> </ul>

**ACTIVITY B6:**

<b>Lead Agency</b>	<b>MAFFF</b>
<b>Description</b>	MAFFF Assets Reconstruction. MAFFF has lost about 80% of its infrastructural assets including: offices, fisheries workshops (for boat construction and repair), refrigeration facilities (critical for fish preservation for sale) agricultural inputs nursery. . Immediate reconstruction is a priority for MAFFF to be able to offer core services to local farmers and fishermen
<b>Objective(s)</b>	Restore critical agricultural extension services for access to inputs and equipment Support fishermen's livelihoods and access to external (Tongatapu markets)
<b>Beneficiaries</b>	The people of Ha'apai and Vava'u and the economy in general
<b>Partners</b>	Requirement T\$ 2.0 million Funded T\$ Unmet T\$ 2.0 million
<b>Expected Outputs</b>	MAFFF assets restored and operational by 2015 Farmers and fishers able to access services to support productive capacities

**ACTIVITY C1:**

<b>Lead Agency</b>	<b>Ministry of Commerce, Tourism and Labour</b>
<b>Description</b>	Immediate economic recovery. Immediate income generating opportunities (cash for work through TBEC) Immediate recovery of businesses (formal and informal) focusing on the most vulnerable and gender dimensions. Activities will include: clean-up, rebuilding of small-scale community facilities (e.g. accommodation), clearing land for transitional shelter (link to shelter D1), housing, handicraft, replantation of crops including traditional crops (in B2 also), small scale tourism infrastructure
<b>Objective(s)</b>	To provide cash income for vulnerable groups to conduct early recovery activities
<b>Beneficiaries</b>	Affected population particularly most vulnerable groups

<b>Partners</b>	TCCI, TBEC, TNYC/Oxfam (Kauvai)
<b>Budget</b>	Requirement T\$ 520,000 <sup>14</sup> Funded T\$ Unmet T\$ 520,000
<b>Expected Outputs and impacts</b>	Cash-for-work programme completed within 3 months Small businesses (informal and formal) recovering from the slow-down in economic activity Target population is able to sustain themselves whilst medium to longer term recovery initiatives take place

**ACTIVITY C2:**

<b>Lead Agency</b>	<b>Ministry of Commerce, Tourism and Labour</b>
<b>Description</b>	Assessing Livelihood Recovery Needs: the scope of the assessment should include livelihood opportunities for women and men, and vulnerable groups, alternative or non-traditional livelihoods, impacts on businesses (formal and informal), and appropriate mechanisms for implementing economic recovery activities over the medium to longer term.
<b>Objective</b>	To identify economic livelihood recovery opportunities and activities to address the needs of vulnerable groups and businesses both in medium to longer term
<b>Beneficiaries</b>	Affected population particularly most vulnerable groups
<b>Partners (to date)</b>	TCCI, TBEC
<b>Budget</b>	Requirement T\$ 20,000 Funded T\$ Unmet T\$ 20,000
<b>Expected Outputs and impacts</b>	Opportunities for short and medium term employment and business recovery for women and men, and vulnerable populations identified Number and location of communities and businesses that are in most need of economic recovery Mechanism for supporting businesses and providing cash income identified (based on existing mechanisms available in Tonga / Ha'apai).

**ACTIVITY C3:**

<b>Lead Agency</b>	<b>Ministry of Commerce, Tourism and Labour</b>
<b>Description</b>	Medium term livelihood recovery: Provide timely and effective solutions for the reactivation of the local economy, focusing on the most vulnerable. Activities will include: marketing campaigns, provision of labour, equipment, access to finance, support implementation of supply chains, support in technical and/or business advice, monitoring & evaluation, soft loans, income generating activities for women, men & families.
<b>Objective(s)</b>	To restart and rebuild the private sector in the affected areas at a higher level pre-disaster, for all businesses across all sectors (farms, fisherman, handicraft, resorts, accommodation providers, whale watching, etc.) in partnership with other sector agencies or ministries as appropriate. To identify opportunities to rebuild risk resilient private sector (formal and informal)
<b>Beneficiaries</b>	All businesses of all sizes across all sectors and the affected population (farms, fisherman, handicraft, resorts, accommodation providers, whale watching, etc.).
<b>Partners</b>	TCCI, TBEC, Primary : NZAID (by default as TBEC is fully funded by NZAID) Secondary: DFAT, World Bank, ADB, MCTL, MAFF, MOIA, TDB
<b>Budget</b>	Requirement T\$ 975,000 Funded T\$ 240,000 Unmet T\$ 735,000
<b>Expected impacts</b>	Recovery of local economy (including formal and informal businesses).

<sup>14</sup> Reflects T\$20,000 for TNYC/Oxfam activity on transferring coconut stock

## Logistics/Transport

<b>Lead Agency</b>	Ministry for Infrastructure
<b>Key Partners</b>	Land Transport, Marine & Ports and Civil Aviation Division, World Bank, Development partners, Ha'apai NEOC and ALL members of the NEC
<b>Contact Information</b>	'Ofa Fa'anunu (MOI) – ofaf@met.gov.to Phone: 7713903

### Needs Analysis

An assessment lead by the Ministry of Infrastructure assisted by the World Bank was on the 11<sup>th</sup> of January and again on the 16-17<sup>th</sup> on the damages inflicted by TC Ian. Damage to all transportation facilities were assessed including: housing, maritime assets, land transport and civil aviation and was concentrated on the islands of Lifuka and Foa. Situation reports from outer-islands from the Ha'apai NEOC and NEC in Nuku'alofa were used for assessing the outer islands. A number of people were met during the visit including the Government representatives, NGOs, Ministry Staff and TAL officers. From the assessments carried out the costs for recovery and reconstruction for transportation infrastructure is **T\$3.16M** with additional **T\$5.08M** needed for transport logistics to support overall response operations. **Total T\$8.24M**

The first priority for construction and repair is to:

- (1) Protect 260m section of the Holopeka Road from coastal erosion (Roads)
- (2) Protect Foa Causeway from restoring minor damages and reinforcing (Roads)
- (3) Restore the passenger terminal, security fence, wharf erosion & navigation aids (Marine)
- (4) Restore Ha'apai Airport Terminal building, Control Tower, VIP Building and generator shed, perimeter fence and sealing repairs of runway, turning areas, taxiway and apron and minor pavement repairs. (Civil Aviation)

Other urgent transport logistics required include:

- (1) Hire of small marine crafts to assist in transportation of personnel, relief supplies and construction materials to/from the larger vessels of the Armed forces
- (2) Hire of a barge to transport construction material
- (3) Access roads to vital infrastructure and
- (4) Portable runway lighting to allow aircraft to land in Ha'apai at night.

### Sectoral objectives

<b>A</b>	To restore Ha'apai Airport to full capacity
<b>B</b>	To restore Marine infrastructure on affected islands to full capacity
<b>C</b>	To restore all road infrastructure affected and roads to important infrastructure
<b>D</b>	To assist partners, public, private and business sector in transportation logistics during the recovery operations (phase)

## Summary of proposed sector activities

### Activity A1

<b>Agency</b>	<b>Ministry of Infrastructure (Civil Aviation) and Tonga Airports</b>
<b>Description</b>	Construct tower of terminal building and Generator shed, restore the VIP Building and Perimeter fence (450m) and resealing of runway (42,000m <sup>2</sup> ) and Navigational aids
<b>Beneficiaries/ Location</b>	Air Traffic Controllers, public and response agencies to disaster in Ha'apai
<b>Partners</b>	World Bank and AusAID
<b>Budget</b>	Requirement T\$ 1,622,500 Funded T\$ 1,050,000 T\$130,000 (Pending 1.25M WB diverted funds) Unmet T\$ 442,500
<b>Expected Impacts</b>	Safety of Aircraft and passengers, public and terminal staff

### Activity B1

<b>Agency</b>	<b>Ministry of Infrastructure (Marine and Ports)</b>
<b>Description</b>	Restore Terminal Building at Warf, Security fence, erosion repair works and repair of 3 navigational lights
<b>Beneficiaries/ Location</b>	Public, Shipping agencies and response agencies to disaster in Ha'apai
<b>Partners</b>	World Bank and AusAID
<b>Budget</b>	Requirement T\$185,000 Funded T\$185,000 (Pending diversion of NZ Maritime Grant) Unmet T\$0
<b>Expected Outputs</b>	Re-established Terminal, Security fence, Warf and Navigational Lights. Impacts will be more secure and efficient maritime infrastructure and enhanced safety of marine travel at Ha'apai.

### Activity B2

<b>Agency</b>	<b>Ministry of Infrastructure (Marine and Ports)</b>
<b>Description</b>	Restore marine landings at affected islands (Uiha & Faleloa)
<b>Beneficiaries/ Location</b>	Residents of those islands
<b>Partners</b>	ADB/SPCR
<b>Budget</b>	Requirement T\$ 225,000 Funded T\$ 1M (ADB/SPCR project on Marine Landings) Unmet T\$0
<b>Expected Outputs</b>	Re-established marine landings to facilitate reconstruction.

### Activity C1

<b>Agency</b>	<b>Ministry of Infrastructure (Land Transport)</b>
<b>Description</b>	Restore and protection of Holopeka road (260m), damaged road signs and Foa causeway
<b>Beneficiaries/ Location</b>	Public and residents of Lifuka and FOA, Ha'apai
<b>Partners</b>	World Bank and AusAID
<b>Budget</b>	Requirement T\$ 1,120,000 Funded T\$ 1,120,000 (Pending 1.25M WB diverted funds) Unmet T\$ 0
<b>Expected Outputs and Impacts</b>	Enhanced safety of Road transportation at Ha'apai

**Activity D1**

<b>Agency</b>	<b>Ministry of Infrastructure (Engineering/Roads)</b>
<b>Description</b>	Civil Works for waste disposal site and restoring roads in Uiha, Foa, Lifuka and Ha'ano
<b>Beneficiaries/ Location</b>	Public, residents and Environment of Ha'apai
<b>Partners</b>	<b>Ministry of Health/ MLECCNR</b>
<b>Budget</b>	Requirement T\$ 2,830,000 Funded T\$ 0 Unmet T\$ 2,830,000
<b>Expected Outputs</b>	Establishment of a waste disposal site for Ha'apai and proper access roads for to support re-construction

**Activity D2**

<b>Agency</b>	<b>Ministry of Infrastructure (Marine)</b>
<b>Description</b>	Hire of Large and small capacity Barges to facilitate transportation of construction material and from Tongatapu to Lifuka and personnel and supplies from larger vessels to outer islands travel during recovery and reconstruction.
<b>Beneficiaries/ Location</b>	Public and residents of outer islands of Ha'apai
<b>Partners</b>	<b>Ministry of Infrastructure (Engineering)/Construction companies</b>
<b>Budget</b>	Requirement T\$2,725,000 Funded T\$0 Unmet T\$2,725,000
<b>Expected Outputs</b>	Homes restored and constructed and support personnel and supplies are transported efficiently

**Activity D3**

<b>Agency</b>	<b>Ministry of Infrastructure (Civil Aviation)</b>
<b>Description</b>	Purchase of portable runway lights for night flight operations into Ha'apai
<b>Beneficiaries/ Location</b>	Public and response agencies to the recovery are able to access or travel in and out of Ha'apai at night and for standby should another disaster happen during the recovery phase
<b>Partners</b>	<b>TAL and Real Tonga Airlines</b>
<b>Budget</b>	Requirement T\$ 100,000 Funded T\$ 0 Unmet T\$ 100,000
<b>Expected Outputs</b>	Enable night flights to speed up recovery and facilitate response agencies

**Activity D4**

<b>Agency</b>	<b>Ministry of Infrastructure (Marine)</b>
<b>Description</b>	TA for Hydrological Survey
<b>Beneficiaries/ Location</b>	Marine traveling Public and Ship-owners
<b>Partners</b>	<b>NZ Grant Aid</b>
<b>Budget</b>	Requirement T\$ 20,000 Funded T\$ 0 Unmet T\$ 20,000
<b>Outputs</b>	Sea depth verified over cyclone affected area for/safety of marine vessels

**Activity D5**

<b>Agency</b>	<b>Ministry of Infrastructure (Civil Aviation)</b>
<b>Description</b>	TA for Civil Aviation re-sealing engineer
<b>Beneficiaries/ Location</b>	Marine traveling Public and Ship-owners
<b>Partners</b>	<b>Donors</b>
<b>Budget</b>	Requirement TOP\$50,000 Funded TOP\$0 Unmet TOP\$50,000
<b>Expected Impacts</b>	Runway reinforced to proper safety standard



## Public Works – Emergency Services

<b>Lead Agency</b>	His Majesty's Armed Forces (HMAF)
<b>Key Partners</b>	<ol style="list-style-type: none"> <li>1. Tonga Fire and Emergency Services (TFES)</li> <li>2. Ministry of Infrastructure (Mol)</li> <li>3. Tonga Police</li> <li>4. NEMO</li> </ol>
<b>Contact Information</b>	<p><b>HMAF:</b> Lieutenant Colonel Fielakepa (HMAF HQ, TT), Commander Satisi Vunipola (HP)</p> <p><b>TFES:</b> Fire Commissioner Lofia Heimuli, Deputy Fire Commissioner, Viliami Tu'ihalamaka.</p>

### Sectoral Needs Analysis

The Public Works sector is critical in the initial stage of the comprehensive response not only to immediate needs and safety of people affected by Tropical Cyclone IAN but also to support other sectors' immediate responses. The main tasks focus on re-establishing safe entry points and clearing of access roads mainly in Lifuka and Foa islands to facilitate and maintain the inflow of relief supplies and its distribution to affected population. The sector was progressively reinforced both in personnel, equipment and transportation platforms as situation demanded higher tempo and mass movement of stores and supplies. The Task Force included: 91 personnel from HMAF, 16 Firemen from TFES, and heavy plant with operators from Mol.

The Task Force has limited capacity to carry out specialized technical tasks to support restoration of essential infrastructures such as electricity and telecommunication, therefore focus on restoring freedom of movement and delivery of relief supplies throughout the whole affected areas included the outer islands. Furthermore, the sector also provide or support the initial assessment of all affected areas and population to facilitate a timely and appropriate responses from respective government sectors and Non-Government Organizations (NGO). Concurrently, the Task Force carried out hasty construction works to hospital and few other government essential facilities to support the response to the immediate recovery of the affected population to normalcy. Furthermore, the Task Force assessed and compiled detailed estimates of what required for transitional construction works to damaged school buildings in the affected areas. The Task Force also has the capability to carry out these transitional construction works if required.

The Task Force is robust and effective in carrying out its main tasks, however there are identified shortfalls in the capacity of each agency to deliver specific roles and responsibilities which need to be addressed to strengthen its preparedness, response and recovery from future emergencies. These are shortfalls that need attention of government and donors:

- a. HMAF
  - Need a sea transportation platform to be able to deliver personnel and supplies effectively to outer islands;
  - Need heavy plants to contribute to resources available from Mol; and
- b. TFES
  - Need to develop emergency respond capabilities; and
  - Transitional shelter to house emergency resources such as tools, equipment and vehicles.

The MOI needs are to include under the Mol sector plan. The HMAF issues with the capacity to implement identified tasks and responsibilities should be noted on a long term plan of recovery and preparedness for any future similar disaster. However, TFES needs for emergency stores and temporary shelter should be addressed immediately in preparation for upcoming natural disasters in the near future.

## Sectorial objectives

<b>A</b>	To provide emergency response services during and immediately after the cyclone
<b>B</b>	Re-establish a safe air and sea point of entry and access roads in all affected areas
<b>C</b>	Facilitate the re-opening of essential services include hospital and schools
<b>D</b>	Providing transportation platforms and personnel to deliver HA to all affected areas
<b>E</b>	Support other agencies on immediate responses to re-establish basic livelihood
<b>F</b>	To develop capabilities to respond to emergencies effectively and to re-store the shelter for the fire appliances.

### Activity A1

<b>Agency</b>	HMAF, TFES
<b>Description</b>	To provide emergency services during and immediately after the cyclone specifically on rescue or relocation operations
<b>Beneficiaries/Location</b>	General public of affected areas of Ha'apai that can be accessed by roads.
<b>Partners</b>	Tonga Police, MoI
<b>Budget</b>	Requirement \$ N/A Funded \$ N/A Unmet \$ N/A
<b>Expected Outputs and Impacts</b>	Outputs: Emergency response during and after disaster is delivered effectively.

### Activity B1

<b>Agency</b>	HMAF, TFES, MOI
<b>Description</b>	Facilitate freedom of movement to support delivery of relief supplies from Tongatapu and its distribution in Ha'apai.
<b>Beneficiaries/Location</b>	General public of affected areas of Ha'apai and other sectors.
<b>Partners</b>	Tonga Police
<b>Budget</b>	Requirement \$ N/A Funded \$ N/A Unmet \$ N/A
<b>Expected Outputs and Impacts</b>	Output: Airport and wharf are safe and operational. All roads accessible both to townships and farm allotments.

### Activity C1

<b>Agency</b>	HMAF, TFES, MOI
<b>Description</b>	To provide support to setup and re-establish essential services include hospital and schools
<b>Beneficiaries/Location</b>	Public, lead government agencies
<b>Partners</b>	Tonga Police, NGOs, Government departments
<b>Budget</b>	Requirement \$ N/A Funded \$ N/A Unmet \$ N/A
<b>Expected Outputs and Impacts</b>	Output: Essential services are operational and accessible by general public

### Activity D1

<b>Agency</b>	HMAF, TFES
<b>Description</b>	Providing transportation platforms and personnel to deliver HA to all affected areas
<b>Beneficiaries/Location</b>	General public of affected areas of Ha'apai
<b>Partners</b>	NEMO, Tonga Police, NGOs
<b>Budget</b>	Requirement \$ N/A Funded \$ N/A Unmet \$ N/A
<b>Expected Outputs and Impacts</b>	Output: HA relief supplies are distributed as planned Emergency Operational Centre, Ha'apai.

**Activity E1**

<b>Agency</b>	HMAF, TFES, MOI
<b>Description</b>	Support other agencies on immediate responses to re-establish basic livelihood
<b>Beneficiaries/Location</b>	General public of affected areas of Ha'apai
<b>Partners</b>	Tonga Police, NGOs, other sectors
<b>Budget</b>	Requirement \$ N/A Funded \$ N/A Unmet \$ N/A
<b>Expected Outputs and Impacts</b>	Output: Free movement of emergency supplies and services to access population centers and essential services are operational to restore basic livelihood.

**Activity F1**

<b>Agency</b>	<b>TFES</b>
<b>Description</b>	To develop emergency respond capabilities as in tools and specialized equipment for the Ha'apai TFES station.
<b>Beneficiaries/Location</b>	Ha'apai TFES station, general population of Ha'apai.
<b>Partners</b>	Tonga Government, Donors
<b>Budget</b>	Requirement \$100,000 Funded \$0.0 Unmet \$100,000
<b>Expected Outputs and Impacts</b>	Output: TFES effectively respond to emergencies both natural and man-made disasters

**Activity F2**

<b>Agency</b>	<b>TFES</b>
<b>Description</b>	Construct a transitional shelter for the fire appliances, equipment and tools of the Ha'apai Station.
<b>Beneficiaries/Location</b>	TFES, general population of Lifuka and Foa islands
<b>Partners</b>	Tonga Government, Donors
<b>Budget</b>	Requirement \$10,000 Funded \$0.0 Unmet \$10,000
<b>Expected Outputs and Impacts</b>	Output: The fire appliances and equipment are maintained and operational.

## Electricity

<b>Lead Agency</b>	Ministry of Public Enterprise
<b>Key Partners</b>	Tonga Power Ltd, TERM, NZAid, WB, ADB
<b>Contact Information</b>	Siaosi Sovaleni, Ministry of Public Enterprise Ph: +676 24727 Mob: +676 7789040 Email: <a href="mailto:ssovaleni@mpe.gov.to">ssovaleni@mpe.gov.to</a> siaosi.sovaleni@gmail.com

### Sectoral Needs Analysis

Initial damage assessment was carried out on the 13<sup>th</sup> January, which indicated that over 90% to 95% of the Ha'apai Network were extensively damaged, and generators were in need of servicing.

#### Network:

- 90% of the HV and LV lines on the ground
- 40% of the HV Poles either snapped or pushed over
- 70% of the LV poles either snapped or pushed over
- 65% of the Transformers were damaged
- 90% of the Transformer Structures damaged

**Power Generation** is supported by two generators one was serviceable while the second was damaged by rain and salt spray. The power house was destroyed.

#### Customer premises

- 90% of all Service lines to the property on the ground
- Estimated 50% of homes that were connected to the grid were extensively damaged
- Inspection and wiring repairs are likely for a large portion of homes

### Sectoral objectives

<b>A</b>	Restore electricity services impacted by TC Evans to normal operations as soon as possible
<b>B</b>	Develop and undertake actions to improve resilience of electricity and power infrastructure to natural disasters
<b>C</b>	Improve overall collaboration and cooperation of the sector in response to natural disasters

### Summary of proposed sector activities

#### Activity A1

<b>Agency</b>	<b>TPL</b>
<b>Description</b>	Restore power to essential services such as TWB, Government agencies, Telecom operators etc
<b>Beneficiaries/ Location</b>	Primarily: Affected communities that had power Secondary: reconstructed communities – learning from lessons learnt
<b>Partners</b>	NZAid (Village Project), ADB (Renewable Energy project), Government agencies
<b>Budget</b>	Requirement \$1 million Funded \$0 Unmet \$1 million (to be determined based on insurance coverage)
<b>Expected Outputs and Impacts</b>	Full restoration of power to essential services such as Water, Communication, and key Government agencies. More efficient and effective response to needs of Ha'apai; More informed decision making process.

**Activity A2**

<b>Agency</b>	<b>TPL</b>
<b>Description</b>	Respite power to subscribers. TPL workplan include those in Notes A2.1 Currently TPL is covering the repair of lines to homes. This costs of these repair works and source of funds to cover them need to be resolved
<b>Beneficiaries/ Location</b>	TPL subscribers and affected communities
<b>Partners</b>	NZAid (Village Project), ADB (Renewable Energy project), Government agencies
<b>Budget</b>	Requirement \$3million Funded \$2 million (NZAID but not confirmed yet) Unmet \$1 million
<b>Impact</b>	Full restoration of power to TPL subscribers and disadvantaged communities

**Activity B1**

<b>Agency</b>	<b>TPL Co-lead: WB/ADB</b>
<b>Description</b>	Feasibility study on options that will be more resilience to TC
<b>Beneficiaries/ Location</b>	Directly: Ha'apai as this may result in more resilient Power infrastructure and in future may result in less disruption to power services; Secondary: Lessons learnt from TC Ian can help sustainable development in Tonga
<b>Partners</b>	NZAid (Village Project), WB, TERM, ADB (Renewable Energy project), Government agencies
<b>Budget</b>	Requirement \$50,000 Funded \$0 Unmet \$50,000
<b>Expected Outputs and Impacts</b>	Better understanding of building resilience infrastructure especially in Tonga island communities; Secure funding to build infrastructure that are resilience to TC and natural disasters

**Activity B2**

<b>Agency</b>	<b>TPL</b>
<b>Description</b>	Building a resilient power and electricity infrastructure. Given the damage to the network the ideal response is to rebuild it at the standard where it withstands cyclones. This adds cost and time, the estimated cost to rebuild to a good standard, and assuming all 1,000 connections are connected, comes to T\$6.5 million.
<b>Beneficiaries/ Location</b>	Directly: Ha'apai due to more resilience infrastructure that minimize power disruption in event of a natural disaster; Secondary: Tonga due to lessons learnt from Ha'apai experience
<b>Partners</b>	NZAid (Village Project), WB, TERM, ADB (Renewable Energy project), Government agencies
<b>Budget</b>	Requirement \$6.5million (\$3million short term) Funded \$0 million Unmet \$6.5 million
<b>Expected Outputs and Impacts</b>	A more robust and resilient infrastructure; Minimal disruption in event of natural disasters; Less costly in the long run; More sustainable development

**Activity C1**

<b>Agency</b>	<b>TPL</b>
<b>Description</b>	Post disaster evaluation to improve the sector's response to natural disaster. Logistics was a problem especially in trying to get to Ha'apai key equipment and personnel Collaboration and cooperation to pool resources and to include TPL personnel as first responders
<b>Beneficiaries/ Location</b>	Directly: Ha'apai due to more effective and efficient response; Secondary: Tonga due improved response plans
<b>Partners</b>	NZAid (Village Project), WB, TERM, ADB (Renewable Energy project), Government agencies
<b>Budget</b>	Requirement \$100,000 Funded \$50,000 Unmet \$50,000
<b>Expected Outputs and Impacts</b>	Identification of challenging areas Recommendations to improve response and address areas identified; Measures and mechanisms in place to support the need for a timely and effective response to natural disasters. Improved response plan for the sector

**Activity C2**

<b>Agency</b>	<b>MPE co-lead: TPL</b>
<b>Description</b>	Develop Business Continuity Plan for each essential services (incl critical infrastructure)
<b>Beneficiaries/ Location</b>	Directly: Ha'apai due to more effective and efficient response; Secondary: Tonga due BCP in key services
<b>Partners</b>	WB. ADB. ITU
<b>Budget</b>	Requirement \$200,000 Funded \$0 Unmet \$200,000
<b>Expected Outputs and Impacts</b>	BCP for key services; Less disruption to key services due to natural disasters Enhanced collaboration and cooperation between key service providers

## Communications

<b>Lead Agency</b>	Ministry of Information and Communications (MIC)	
<b>Key Partners</b>	MET, NEMO, TCC, Digicel, Police, Royal Arm Forces, TV and Radio Stations, Public Enterprise and all members of the NEC	
<b>Contact Information</b>	Mr. Paula P. Ma'u Director, Ministry of Informations & Communications Mob : 8815340	Mr. 'Ofa Fa'onunu Director, Ministry of Infrastructure Mob: 7713903

### Needs Analysis

With all due respect, the Telecommunications and Communications Cluster Committee appreciate the effort and the commitments to ensuring that communications were restored after Tropical Cyclone Ian hit the Ha'apai Island Group.

Better planning and coordination could have the restoration of essential communication much earlier for the two Carriers (TCC and Digicel). It was reported that the only mean of communication (emergency communications) available was by satellite phone (2xTRCS) with HF and VHF radio systems that where unserviceable without power supply.

The committee realize the important rather very critical to have these emergency communication equipment HF, VHF radio sets and satellite phone sets in operation and to work as a network, thus communications during and after the cyclone would have being more effective and efficient having such equipment before restoring of the essential communications.

Dissemination and distribution of information is another area that needs to be well planned, coordinated and control locally and internationally.

### Sectoral objectives

<b>A</b>	To restore all communications in the affected areas
<b>B</b>	To established contingency communication facilities and network to support the affected areas
<b>C</b>	To assist partners, public, private, and business sectors in the communications logistics during the recovery operation (phase)
<b>D</b>	Dissemination/distribution of information's

### Summary of proposed sector activities

#### Activity A1

<b>Agency</b>	<b>Telecommunications and Communications</b>	
<b>Description</b>	Better coordination with the operators/carriers (TCC and Digicel) for the restoration of their landline and mobile system. Restoring of NEMO HF radio and replacing HF antenna Ha'apai MET Office. Outstanding costs for Digicel and TCC repairs.	
<b>Beneficiaries/ Location</b>	The affected area - the general public National Emergency Management Committee and stakeholders –	
<b>Partners</b>	National Emergency Management Committee, Donors	
<b>Budget</b>	Restore NEMO HF Radio	T\$ 3,000
	HF antennae replace for Ha'apai MET	T\$ 1,000
	Outstanding Digicel and TCC repairs	TBD
	<b>Total</b>	<b>T\$ 4,000</b>
<b>Expected Impacts</b>	Ensure that communications is available and restored in timely manner. NOC Headquarter is not cut off.	

**Activity B1**

<b>Agency</b>	<b>Telecommunication and Communications</b>	
<b>Description</b>	<p>To plan and well coordinate the restoration acquiring telecommunications/ communication equipment:</p> <ul style="list-style-type: none"> <li>• Emergency Communication Sat phone, HF and VHF Radios fix and portable</li> <li>• Essential Communications Mobile and fix line</li> <li>• Non-essential Communications Internet etc</li> <li>• Public Access Coverage</li> </ul> <p>This is to ensure that during the Cyclone ;</p> <ul style="list-style-type: none"> <li>• Status of the Cyclone are regularly reported to the Network Operation Center (NOC)</li> <li>• Status of the public networks are reported regularly to the NOC</li> <li>• Directions from NOC are issued in a timely manner and feedbacks are relayed accordingly and efficiently.</li> </ul> <p>Also to ensure that immediately after the Cyclone :</p> <ul style="list-style-type: none"> <li>• Status and Damage report are relayed immediately to the NOC</li> <li>• Restoration direction and plan are issued from the NOC accordingly</li> <li>• Emergency communication is made available to key people like Government departments, doctors, Police, Army etc where/when needed to relay reports back to HQ.</li> </ul>	
<b>Beneficiaries</b>	The affected area - the general public, National Emergency Management Committee and stakeholders	
<b>Partners</b>	National Emergency Management Committee, Donors	
<b>Budget</b>	Item	
	1 Satellite phone for Ha'apai Governor's Office and rental paid for 2 yrs	T\$ 7,500
	Satellite phone rental for NEMO for 2years	T\$ 4000
	HF radio for Ha'apai Rescue Fire Services (RFS)	5000
	20XVHF portable (water proof) for Ha'apai	T\$ 20,000
	Dedicated radio link between all warning and response agencies in TBU	T\$ 50,000
	2XVHF radio systems for Ha'apai Met and Ha'apai RFS	3,000
	8Xvehicle VHF for Ha'apai response	T\$ 10,000
	Standby Generator Ha'apai RFS	T\$ 10,000
	Establish arrangements for TCC and Digicel networks to cross link free of charge to the dissemination of early warning and disaster response information between selected users and establish priority traffic for disaster information.	T\$ 30,000
	TCC and Digicel to have mobile towers in storage to be used during disaster situations.	To be determined
	Upgrade Tonga Coast Radio (All Tonga)	T\$ 2,500,000
	<b>Total</b>	<b>2, 639,500</b>
<b>Expected Outputs and Impacts</b>	<ul style="list-style-type: none"> <li>• Emergency communication will be available during the Cyclone and immediately after the cyclone</li> <li>• Provision for life saving calls is available when/where/if needed</li> <li>• Cyclone can be monitored regularly from NOC and Headquarter during event</li> <li>• Status of the Public Network to be monitored regularly from NOC during Cyclone</li> <li>• Media will receive factual information during and immediately after the Cyclone</li> </ul>	



**Activity C1**

<b>Agency</b>	<b>Telecommunications and Communications</b>	
<b>Description</b>	Provide technical expert service to fix and repair communications. Providing frequency/s that are appropriate and necessary as well as waiving licensing fees	
<b>Beneficiaries/ Location</b>	The affected area - the general public National Emergency Management Committee and stakeholders	
<b>Partners</b>	National Emergency Management Committee, Donors	
<b>Budget</b>	Waiver of Radio license fees for 30users (1year)	T\$ 3,000
	Provide a technical expert service to fix and repair communications	\$ 50,000
	20 Solar panels for charging cell phones and radio equipment in affected villages	\$ 50,000
	<b>Total</b>	<b>\$ 130,000</b>
<b>Expected Outputs and Impacts</b>	<ul style="list-style-type: none"> <li>• Availability of technical assistance for repair of equipment at no costs</li> <li>• Availability of charging equipment i.e solar panels</li> <li>• Frequency allocation/assignment at no costs and waiving of licensing fees</li> <li>• Assurance of communication is available on a timely manner</li> </ul>	

**Activity D1**

<b>Agency</b>	<b>Telecommunication and Communications</b>	
<b>Description</b>	To establish a dedicated link between warning and response agencies at TBC and Ha'apai Technical assistance to improve on media reporting from NEC aand from the field during the disaster	
<b>Beneficiaries/ Location</b>	National Emergency and Management Committee and stakeholders, General public, Local and international media	
<b>Partners</b>	National Emergency and Management Committee and stakeholders, Donors	
<b>Budget</b>	Link between warning and response agencies at TBU and Ha'apai	T\$ 100,000
	Technical assistance improving media reporting	T\$ 50,000
	<b>Total</b>	<b>T\$ 150,000</b>
<b>Expected Outputs</b>	Effective and efficient collection of information and dissemination	

## 4. ROLES AND RESPONSIBILITIES

At national level the main coordination body for TC Ian response is the National Emergency Operations Committee (NEOC) which has central control over disaster operations. The NEOC has overseen initial damage assessments to determine the priority needs of those affected and has convened regular meetings to review emergency operations and take policy and operational decisions for the operation. The NEOC fully informs Cabinet on its decisions and operations.<sup>15</sup>

Under the NEOC rests the NEOC “Working Group” with operational focal point in each Ministry.

On Wednesday 22 January, the NEOC took the decision to to develop this the TC Ian Response Plan to address the immediate and short terms needs of the effected population for three months. Since the Plan has been developed around several key sectors by relevant agencies (both government and partner agencies), Clusters for each key sector were formulated to ensure coherent approaches. A Government line Ministry for each cluster was appointed to coordinate the work of the cluster (assessments and implementation of response activities). These are as follows:

<b>National Cluster</b>	<b>Responsible Ministry</b>
<b>Health</b>	MoH
<b>Water and Sanitation and Hygiene</b>	MoH
<b>Education</b>	MoE
<b>Emergency shelter</b>	NEMO
<b>Food Security</b>	MoAFFF
<b>Livelihoods</b>	MoAFFF
<b>Safety and protection</b>	MIA
<b>Logistics</b>	Met
<b>Housing reconstruction</b>	Mol
<b>Public Works</b>	HMAF
<b>Electricity</b>	MPE
<b>Telecommunications</b>	MIC

From the 22-27 January Cluster leads facilitated a series of meeting to share information, analyze data, and develop cluster specific response plans. In the process Health and WASH worked jointly, as did Food Security and Livelihoods, and Emergency Shelter and Housing Reconstruction. All Clusters will continue to be convened as needed to monitor and adjust planning as implementation proceeds across a range of areas and early recovery activities begin to take shape. The NEOC is over all responsible for monitoring the Plan. A review of the Plan should be considered after four to six weeks in light of the evolving situation to take into consideration any new or emerging needs identified and the activities to address them.

Under the Emergency Management Act (2007) a National Emergency Recovery Committee (NRC) has been established and can be convene as needed following a disaster. The function of this committee is to coordinate and provide oversight of recovery and reconstruction work. The committee is represented mainly by central line agencies and NGOs.

To ensure adequate capacity in NEMO and Ministry of Finance to support the NEOC and the NRC, an Early Recovery coordinator is recommended at national level for a period of 3 months in addition to a 12 month Early Recovery Advisor based in Ha’apai supporting the Office of the Governor.

<sup>15</sup> For a detailed description of the functioning of the NEOC, please refer to the Tonga Emergency Management Act 2007.

## 5. ANNEX

## Annex 1: Initial Damage Results – Buildings

Island	Village	Population (Census 2011)			Building Damage Assessment						
		Male	Female	Total Population	Destroyed		Major Damage		Minor Damage		Total Buildings
					No.	%	No.	%	No.	%	
	<b>(Govt Buildings)</b>				26	33%	28	35%	26	33%	80
Mo'unga'one	Mo'unga'one	37	55	92	21	84%	4	16%	0	0%	25
Ha'ano	Muitoa	17	20	37	8	57%	3	21%	3	21%	14
	Ha'ano	61	54	115	19	51%	16	43%	2	5%	37
	Pukotala	42	49	91	22	69%	7	22%	3	9%	32
	Fakakai	92	84	176	23	55%	13	31%	6	14%	42
Foa	Faleloa	171	182	353	28	55%	11	22%	12	24%	51
	Ha'afakahenga	50	50	102	18	62%	3	10%	8	28%	29
	Lotofoa	214	196	410	51	53%	33	34%	13	13%	97
	Ha'ateihosi'i	55	50	105	7	26%	16	59%	4	15%	27
	Fotu'a	112	113	225	30	61%	13	27%	6	12%	49
	Fangale'ounga	88	86	174	18	56%	6	19%	8	25%	32
Lifuka	Koulo	92	122	214	16	32%	17	34%	17	34%	50
	Holopeka	65	76	141	13	34%	21	55%	4	11%	38
	Pangai	650	589	1239	57	44%	46	35%	27	21%	130
	Ha'ato'u				30	28%	65	61%	12	11%	107
	Hihifo	429	404	833	80	42%	68	35%	44	23%	192
'Uiha	'Uiha	229	186	415	30	67%	8	18%	7	16%	45
	Felemea	74	63	137	17	68%	5	20%	3	12%	25
Lofanga	Lofanga	59	61	120	4	40%	3	30%	3	30%	10
<b>Total Affected Area</b>		<b>2537</b>	<b>2440</b>	<b>4979</b>	<b>518</b>	<b>47%</b>	<b>386</b>	<b>35%</b>	<b>208</b>	<b>19%</b>	<b>1112</b>
Total Ha'apai (Census 2011)		3406	3210	6616							1266
<b>% of Ha'apai Affected</b>		<b>74%</b>	<b>76%</b>	<b>75%</b>							<b>88%</b>

Source: Ministry of Infrastructure (MOI) - 23 January 2014

## Annex 2: Initial Damage Results - Schools

		Initial School Damage Assessment				
Island	Village	School Name	2013 Student Enrolment Number	Damage Extent		
				Destroyed	Major	Minor
Mo'unga'one	Mo'unga'one	GPS Mo'unga'one	15		1 x 3 c/r building	2 x SQs
Ha'ano	Muitoa					
Ha'ano	Ha'ano	GPS Ha'ano	19		1 x SQ	1 x 3 c/r building; 1 x SQ
Ha'ano	Pukotala					
Ha'ano	Fakakai	GPS Fakakai	62	1 x 4 c/r building; 2 x SQ		
Foa	Faleloa	GPS Faleloa	91	1 x 2 c/r building	1 x 2 c/r building; 1 x 5 c/r building; 3 x SQs	
Foa	Ha'afakahenga					
Foa	Lotofoa					
Foa	Ha'ateihosi'i					
Foa	Fotu'a	GPS Fotua	101	1 x 1 c/r building	2 x 3 c/r buildings; 1 x SQ	
Foa	Fangale'ounga					
Lifuka	Koulo	GPS Koulo	43		1 x 1 c/r building; 1 x SQ	1 x 3 c/r building
Lifuka	Holopeka	LDS Middle School	76			1 x 5 c/r building
Lifuka	Pangai/Ha'ato'u	GPS Pangai	151	1 x 1 c/r building for ECE	1 x 3 c/r building; 1 x library; MV Pako (vessel for delivery of education services)	1 x 4 c/r building
		Ha'apai HS	269	1 x garage and school vehicle; 1 x Industrial Arts Practical building	1 x SQ	(hall); 1 building (library); 8 x SQs
		Taufa'ahau - Piolevu College	37	3 buildings (dormitories and kitchen)	2 x 5 c/r buildings; 5 x SQ	2 x 3 c/r buildings; 5 x SQs
		FWC PS Pangai	87			
		Ofamao'oni Primary	30			1 x 3 c/r building
		Ofamao'oni	16			1 x 3 c/r building
		St Joseph	36		1 x 2 c/r building	1 x three-storey building (16 c/rooms)
		Tailulu College	19	1 x 2 c/r building; 2 x SQs	1 x 4 c/r building	1 x 2 c/r building
Lifuka	Hihifo	GPS Tongaleleka	135			2 x 4 c/r buildings
'Uiha	'Uiha	Mata'aho GPS	80		1 x SQ	2 x 4 c/r buildings
'Uiha	Felemea					
Lofanga	Lofanga	GPS Lofanga	26			1 x 4 c/r; 1 x SQ:
<b>Total</b>			<b>1293</b>	<b>14 buildings</b>	<b>25 buildings</b>	<b>39 buildings</b>

Source: Ministry of Education and Training (MET) - 20 January 2014

## Annex 3: Preliminary Affected Population Results

Preliminary Affected Population Assessment (23 January 2014)											
Island	Village	Housholds	Total	Baby (Age 0-1)	Pre School (age 2 - 5)	Pri-Schol (Age 6 - 11)	Secondary (Age 12 - 18)	Youth	Adult	Old Age	Disability
Mo'unga'one	Mo'unga'one	22	81	4	10	8	13	4	32	10	0
Ha'ano	Muitoa	11	53	4	3	11	5	9	17	3	1
	Ha'ano	27	153	3	19	18	27	20	41	10	15
	Pukotala	25	165	3	29	26	23	15	56	8	5
	Fakakai	48	227	4	17	27	40	49	78	12	0
Foa	Faleloa	81	413	14	43	63	65	49	142	25	12
	Ha'afakahenga	24	126	5	19	25	14	11	46	5	1
	Lotofoa	93	468	26	49	67	55	56	165	50	0
	Ha'ateihosi'i	27	114	9	9	21	10	17	46	2	0
	Fotu'a	58	280	12	28	53	36	23	102	24	1
	Fangale'ounga	39	204	7	24	31	33	32	71	6	0
Lifuka	Koulo	38	218	5	21	32	30	24	75	21	10
	Holopeka	32	175	2	18	22	23	33	51	19	7
	Pangai	164	748	64	28	111	132	110	284	13	6
	Ha'ato'u	103	545	6	41	95	72	80	188	57	0
	Hihifo	181	878	9	60	114	164	112	322	70	8
'Uiha	'Uiha	122	528	15	65	80	76	57	168	67	0
	Felemea	36	151	3	5	16	19	9	78	3	0
Lofanga	Lofanga	25	132	0	1	6	14	6	14		0
<b>Total</b>		<b>1156</b>	<b>5659</b>	<b>195</b>	<b>489</b>	<b>826</b>	<b>851</b>	<b>716</b>	<b>1976</b>	<b>405</b>	<b>66</b>

## Annex 4: International assistance

	Contribution received from	Org Type	Country	Tonga Partner/s	Contribution	Quantity
1	NZ High Comm.	Govt.	New Zealand	Kingdom of Tonga	P3 Orion for aerial surveys	1 P3 Orion & crew
2	NZ High Comm.	Govt.	New Zealand	Kingdom of Tonga	Immediate funding	TOP\$46,138 to Tonga Red Cross; TOP\$30,760 to 'Help Ha'apai' fund.
3	Australia High Comm.	Govt.	Australia	Kingdom of Tonga	Immediate funding	TOP\$81,654 (approx.)
4	NZ High Comm.	Govt.	New Zealand	Kingdom of Tonga	TA: Emergency Management	2 people
5	Australia Department of Foreign Affairs and Trade (DFAT)	Govt.	Australia	Kingdom of Tonga	TA: Emergency Management TA: Logistics TA: WASH	3 people
6	NZ High Comm.	Govt.	New Zealand	Kingdom of Tonga; Nuku'alofa Rotary Club; NZ Rotary; Tonga Red Cross	Shelter kits from Rotary NZ; Distributed by the Tonga Red Cross.	189 Shelter kits
7	Australia High Comm.	Govt.	Australia	Tonga Red Cross	Shelter	Support to Tonga Red Cross
8	France	Govt.	France	Kingdom of Tonga	Shelter supplies	100 tarpaulins
9	France	Govt.	France	Kingdom of Tonga	CASA airplane	Plane and crew
10	NZ High Comm.	Govt.	New Zealand	Kingdom of Tonga; Nuku'alofa Rotary Club; NZ Rotary; Tonga Red Cross.	Family kits	269 Family kits
11	NZ Ministry of Foreign Affairs and Trade (MFAT)	Govt.	New Zealand	NZ NGO Tongan Partners	Immediate funding available to NZ NGOs with Tongan partners	TOP\$461,506 (approx.)
12	NZ High Comm.	Govt.	New Zealand	Kingdom of Tonga	Heavy machinery; Nursery supplies.	TOP\$106,000 (cost)
13	NZ High Comm.	Govt.	New Zealand	Kingdom of Tonga	TA: Power; Equipment.	6 people; Equipment; Heavy machinery; TOP\$461,506 (approx. cost).
14	Queensland Government	Govt.	Australia	Kingdom of Tonga	Immediate funding	TOP\$81,654 (approx.)
15	Peoples Republic of China	Govt.	China	Kingdom of Tonga	Shelter	400 tents

	Contribution received from	Org Type	Country	Tonga Partner/s	Contribution	Quantity
16	UN Resident Coordinator	UN	Na	Kingdom of Tonga	TA: Pacific Humanitarian Team	A number of personnel with specific expertise
17	Japan International Cooperation Agency (JICA)	Govt.	Japan	Kingdom of Tonga	Water tanks; Water containers.	30x 3,600 litre tanks; 600x 10 litre collapsible water containers; (cost TOP\$237,277)
18	Oxfam NZ	NGO	New Zealand	Tonga National Youth Congress (TNYC)	TA: Disaster Response; TA: WASH; TA: Livelihoods; Food; WASH supplies; Equipment; Fuel.	3 people; 45 kg food; Bottled drinking water; WASH items; 40 mosquito coils; 3 handsaws; 4 hammers; 1 chainsaw; Petrol.
19	Caritas Aotearoa New Zealand (CANZ)	NGO	New Zealand	Caritas Tonga	WASH supplies; Protection; Livelihoods; NFIs; Recovery.	Total cost (approx.) TOP\$98,547
20	ADRA NZ	NGO	New Zealand	SDA Mission	TA: Emergency Management	1 person
21	UNDP	UN	Na	Kingdom of Tonga	TA: Recovery	1 person
22	UNICEF	UN	Na	Kingdom of Tonga	WASH supplies; TA: WASH specialist; School kits; Education supplies.	1 person; 600 WASH kits; 20 water filter kits; Soap; Water purification tablets.
23	UN WOMEN	UN	Na	Kingdom of Tonga	TA: Gender: Assess and support women and children	1 person
24	World Bank	IFI	Japan & Kingdom of Tonga	Kingdom of Tonga	Pacific Catastrophe Risk Insurance	TOP\$2,373,830 (approx.)
25	SPC (SOPAC)	Pacific RO.	Na	Kingdom of Tonga	TA: Coastal and ground water assessment	1 person
26	Australian Red Cross	RC	Australia	Tonga Red Cross	TA: Shelter	1 person
27	French Red Cross	RC	France	Tonga Red Cross	Shelter supplies; Water cans.	200 tarps; 100 shelter; Tool kits; 300 jerry cans.
28	NZ Red Cross	RC	New Zealand	Tonga Red Cross	Shelter supplies; WASH supplies; Tools; TA: Shelter; TA: Response Coordinator; TRC expenses.	2 people; Supplies (various); Total cost TOP\$80,041 (approx.)
29	IFRC	IFRC	Na	Kingdom of Tonga	TA: Disaster Management	1 person
30	Yan Jian Group	Private Sector	Peoples Republic of China	Kingdom of Tonga	Donation; Construction material.	TOP\$25,000 (donation); TOP\$3,740 (construction material).

\*The information contained in this table is from what has been received in the Tonga National Emergency Management Office (NEMO) from third parties as of 29.1.14. Listings are in order of the date the offer was received. The NEMO takes no responsibility for any omissions or inaccuracies. All amounts are based on conversion to TOP\$ (27.1.14).