



INTRODUCTION TO MERCY MALAYSIA



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Who We Are



- MERCY Malaysia is a non-profit organisation
- We are a registered society under the Societies Act 1966 (Society No.: 1155)

Vision & Mission

Vision

To be outstanding in delivery of medical and humanitarian aid to all

Mission

MERCY Malaysia is a non-profit organisation focusing on providing medical relief, sustainable health-related development and risk reduction activities for vulnerable communities, in both crisis and non-crisis situation



What We Do?



We focus on providing:

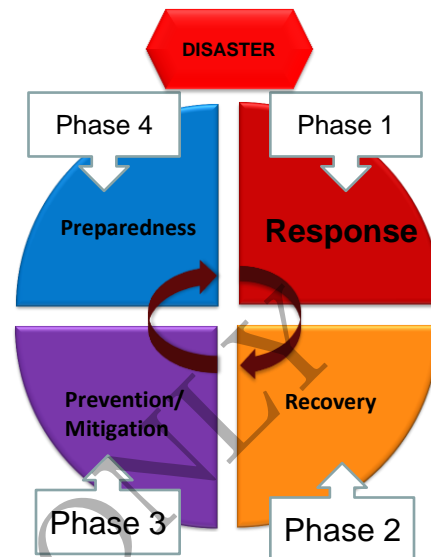
- medical relief
- sustainable health-related development, and
- risk reduction activities for vulnerable communities, in both crisis and non-crisis situation



Our Approach

Total Disaster Risk Management (TDRM)

- A holistic approach to disaster response going beyond the emergency phase
- Takes into account prevention and preparedness measures in the event of the occurrence of another disaster



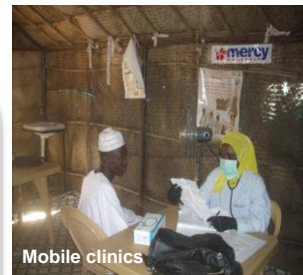
Medical and Humanitarian Aid



Hand washing technique

During crisis situations (due to natural disasters or human conflict), we respond to humanitarian needs through any of the following:

- Mobile clinics
- Field hospitals and/or Operating theatres
- Psychosocial support
- Distribution of hygiene kits
- Health and hygiene promotion (Water, sanitation and hygiene)



Mobile clinics



Distribution of hygiene kits

Sustainable Health-related Development

We perform needs assessment to identify local gaps, and service is delivered accordingly

➤ **Malaysia, examples:**

- Outreach Vaccination Clinics e.g. KL
- Outreach Dental Clinic e.g. Perak
- Outreach Clinics e.g. Sabah and Sarawak

➤ **International, examples:**

- Cleft Lip and Palate Project e.g. Bangladesh
- Arsenic Water Mitigation and Rain, Water Harvesting e.g. Bangladesh
- Oral Rehydration Therapy e.g. Cambodia
- Health Facilities e.g. Sri Lanka, Indonesia, Myanmar, Gaza
- Supplementary Feeding Programme e.g. Somalia, Darfur
- Mobile clinic and dental e.g. Philippines, Somalia, Sri Lanka
- Distribution of family hygiene kits to flood affected e.g. Myanmar, Cambodia, Thailand



Dental clinic



CLIPP

Risk Reduction Activities

After a disaster, we follow through with preparedness activities to build resilience of the community:

➤ **Malaysia, examples:**

- School Preparedness Programmes
- Johor Community Preparedness Programme
- Disaster Risk Reduction for Persons with Disabilities

➤ **International, examples:**

- School Safety Disaster Education & Community-based Mangrove Rehabilitation Project e.g. Myanmar
- Child Led Disaster Risk Reduction e.g. China, Indonesia, Philippines



DRR



PWD



SAFE BUILDING IN DISASTER AREA

Sharing of experiences



The 2013 International Training Workshop, NCDR, TAIWAN

NATURAL DISASTER vs STRUCTURAL FAILURE



Damage
Assessment



REVITALISATION OF RSU GUNUNGSITOLI, NIAS

ONE YEAR COMMEMORATION NIAS

The new master plan proposed for the revitalisation of RSU Gunungsitoli, Nias was a product from an ongoing study and assessment on hospital planning and design. Damage plans and design features of the current hospital were studied thoroughly in order to identify areas for improvement. The master plan proposed for the hospital has included new hospital blocks (main and annex), temporary hospital blocks which will be converted into staff quarters, space planning for medical and non-medical areas, renovation of a Disaster Management Unit for disaster preparedness and a reinforced M&E system. Implementation phases is divided into five, which are:

PHASE I
 1. Refurbishment of existing hospital blocks (Site A).
 2. Construction of Site B, which is the newly designed temporary block.
 3. Construction of Site B, Site B will operate as a 100 beds temporary hospital. This temporary hospital function as a permanent building that will later be converted as staff quarters.

PHASE II
 1. Demolition of Site A (by phases).
 2. Installation of Site B (temporary hospital).

PHASE III
 1. Construction of Site A (by phases).
 2. New temporary hospital in operation.

PHASE IV
 1. Demolition and rehabilitation of Site A from Site B.

PHASE V
 1. Construction and installation of staff quarters into new quarters.
 2. Demolition of Site B (temporary hospital) into staff quarters.
 3. Completion of Site C, which now served as hostel blocks for medical students.
 4. Completion of Site C into a combined teaching plan.

Revitalization Master Plan Concept

Route Map for Hospital Visit (28 March 2006)

PHASE 1
 Construction of Temporary Hospital

PHASE 2
 Demolishing Works of Old Building

PHASE 3
 Demolishing of Other Blocks & Construction of New Blocks


PHASE 4
 Construction of New Wards

PHASE 5
 Construction of New Clinical Blocks

PHASE 6
 Construction of New Clinical Blocks

MERCY MALAYSIA World Vision
World Health Organization
PRR

Damage & Need Assessment



DAMAGE IMPACT NEED ASSESSMENT REPORT

Prepared by: Norazam Ab Samah
Date: 28/6/05 Time: 1025

No.	Country	Province/City	Village/ Area/ Hospital
1	INDONESIA	SUMATERA UTARA/NIAS	GENERAL HOSPITAL

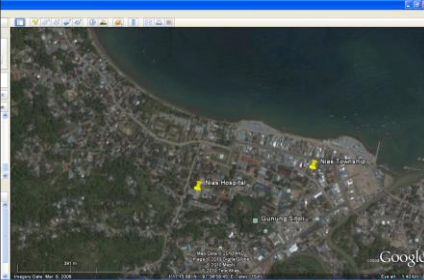


1. PROPOSED SITE LOCATION

Reference no.	Site name	landmark
	GUNUNGSITOLI	BUPATI HOUSE
Latitude: 117°19.34"N	Longitude: 97°36'51.1"E	Elevation: 5M ASL
Site Addr: RUMAH SAKIT UMUM GUNUNGSITOLI, NO 15 JI. DR. CIPTO MANGUNKUSUMO, GUNUNGSITOLI, NIAS, SUMATERA, INDONESIA		
Populatio: 700,000		
Public building (in km radius)	mosque 5KM	hospital 2KM
School: (within 5 km)	primary 2KM	second 5KM
		police sta 1KM
		university NIL
General Occupation:	Main GEN	business 20% others 70%
Good concentration of peopl	dense	medium NIL low NIL
Other similar program:	5km NIL	10km NIL <10km NIL
Building type:	permanent	rehab rental
Communication tools	land line	HP internet
Land size:	less 1 acre	< 1 acre 5 acres <10 acres

2. DAMAGE GRADE

Area	S/F/W/C/R	Total(4)	Major(3)	Medium(2)	Minor(1)
Obstetric & Gynecology	structure roof beam column				

Sheet1
Sheet2
Sheet3

**DAMAGE ASSESSMENT
NIAS, INDONESIA
MERCY MALAYSIA , 2006**



DAMAGE ASSESSMENT IN NIAS, INDONESIA



FLOOR

Conditions

Major crack appear all over the ground floor and concrete floor tilted up at the central aisle (no BRC & proper compaction)

Recommendations

Floor slabs that crack & heave-up heavily shall be reconstructed. Adequate size of reinforcement bars & anchorage shall be added to stiffen the slab

DAMAGE ASSESSMENT IN NIAS, INDONESIA



WALLS

Conditions

Separation crack between brick wall & RC column (light can pass through at some area)

Recommendations

Wall that suffer major crack & separated from RC column need to be demolish & re-erected with new brick wall. Bonding devices such as fish-tail & exmet wire (at every 4 layers of bricks) shall be incorporated to increase strength & to construct RC stiffener.

DAMAGE ASSESSMENT IN NIAS, INDONESIA

WALLS at OPENING

Conditions

Diagonal & horizontal crack on brick wall at the opening – windows & doors (no lintel, stiffener & fish tail)

Recommendations

Wall that suffer major crack & separated from window/door frames need to be demolish & re-erected with new brick wall



O&G Unit

RUMAH SAKIT UMUM GUNUNGSITOLI

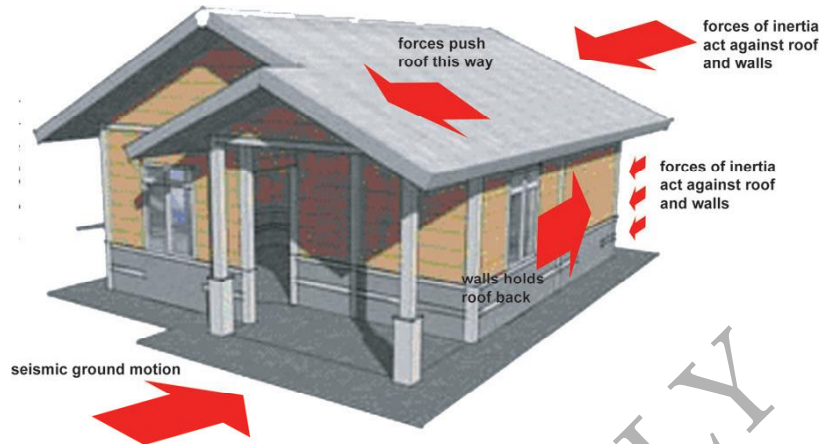
- Major Damaged
- DINAR04 : Grade 3

10 11 2005

10 11 2005



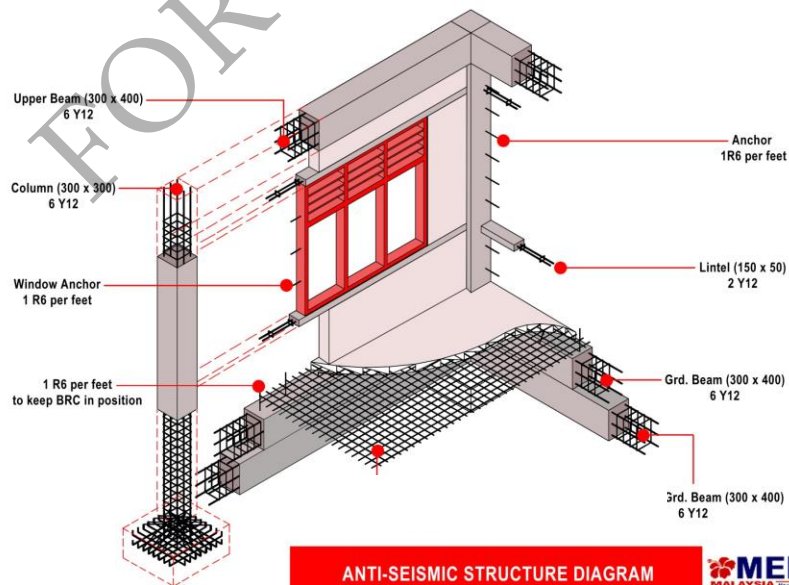
SEISMIC RESISTANCE STRUCTURAL ANALYSIS



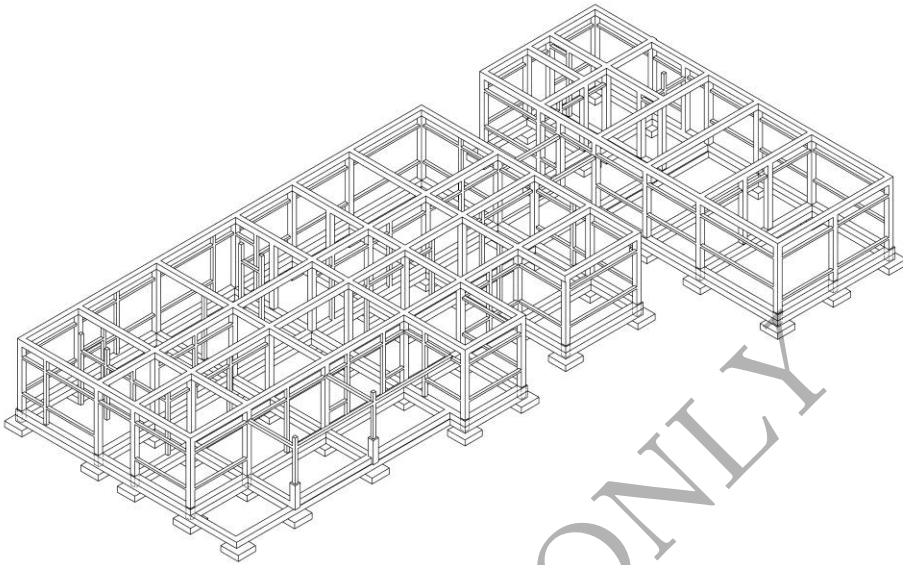
The followings building components are critical to the resistance of seismic forces:

1. Anchorage to the foundation
2. Strength and ductility of the walls
3. Strength and continuity of the horizontal floors, roofs and ceiling
4. Interconnection of all the framing elements

SEISMIC RESISTANT STRUCTURAL SYSTEM - RC



APPLICATION OF THE STRUCTURAL SYSTEM IN NIAS, INDONESIA



PUSKESMAS PLUS AWAAI SEISMIC-RESISTANT SKELETON STRUCTURE SYSTEM

APPLICATION OF THE STRUCTURAL SYSTEM IN NIAS, INDONESIA



PUSKESMAS PLUS AWAAI DOUBLE BEAM - SEGREGATION OF BLOCK

APPLICATION OF THE STRUCTURAL SYSTEM IN NIAS, INDONESIA



APPLICATION OF THE STRUCTURAL SYSTEM IN NIAS, INDONESIA



APPLICATION OF THE STRUCTURAL SYSTEM IN NIAS, INDONESIA



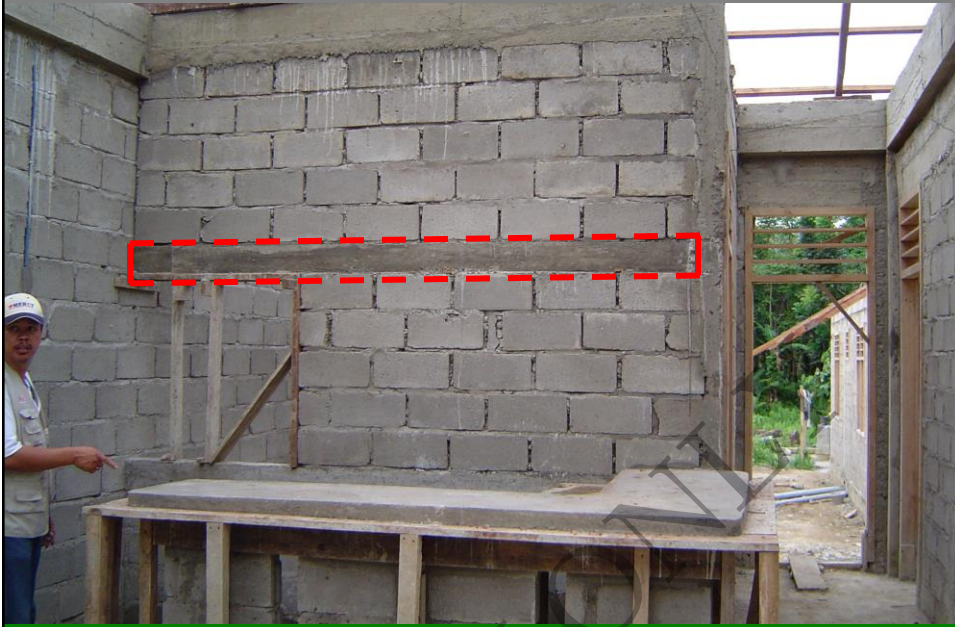
PUSKESMAS PLUS AWAAI STEEL LAPPING BETWEEN BRC AND GROUND BEAM

APPLICATION OF THE STRUCTURAL SYSTEM IN NIAS, INDONESIA



PUSKESMAS PLUS AWAAI POTENTIAL CRACKING AREA ON WALL & OPENING – DOUBLE LINTEL

APPLICATION OF THE STRUCTURAL SYSTEM IN NIAS, INDONESIA



PUSKESMAS PLUS AWAAI POTENTIAL CRACKING AREA ON WALL – ADDITIONAL LINTEL

APPLICATION OF THE STRUCTURAL SYSTEM IN NIAS, INDONESIA



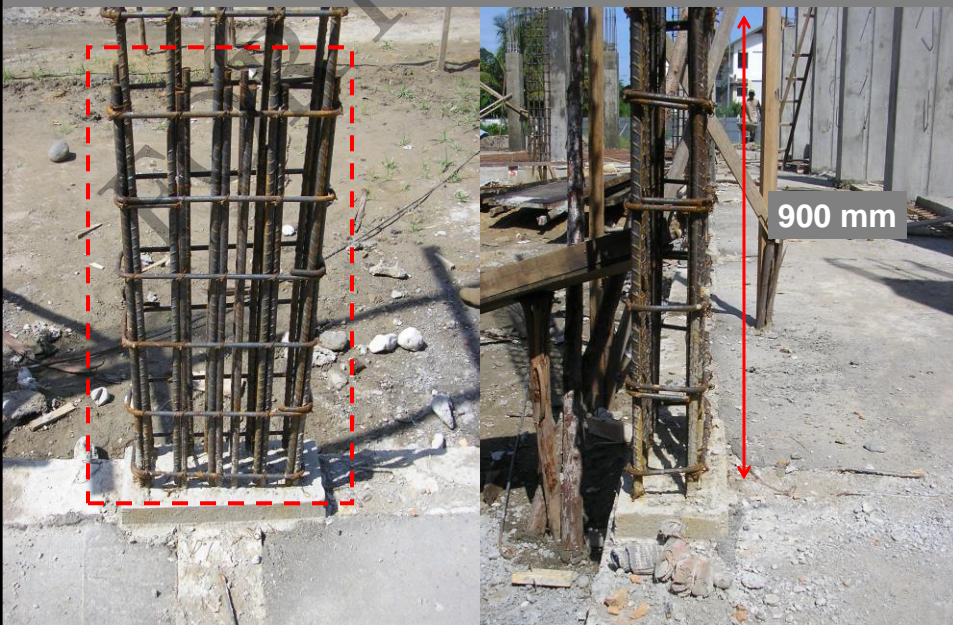
PUSKESMAS PLUS AWAAI COMPLETED ON AUGUST 2006

APPLICATION OF THE STRUCTURAL SYSTEM IN ACEH, INDONESIA



NURSING COLLEGE, UNSYIAH, ACEH EXTRA ANCHORAGE SYSTEM FOR GROUND BEAMS

APPLICATION OF THE STRUCTURAL SYSTEM IN ACEH, INDONESIA



NURSING COLLEGE, UNSYIAH, ACEH EXTRA LAPPING LENGTH AT RC COLUMN

APPLICATION OF THE STRUCTURAL SYSTEM IN ACEH, INDONESIA



NURSING COLLEGE, UNSYIAH, ACEH WALL TIES BETWEEN COLUMNS AND WALL

APPLICATION OF THE STRUCTURAL SYSTEM IN ACEH, INDONESIA



NURSING COLLEGE, UNSYIAH, ACEH FLOOR SLAB REINFORCEMENT BAR AND ANCHORAGE

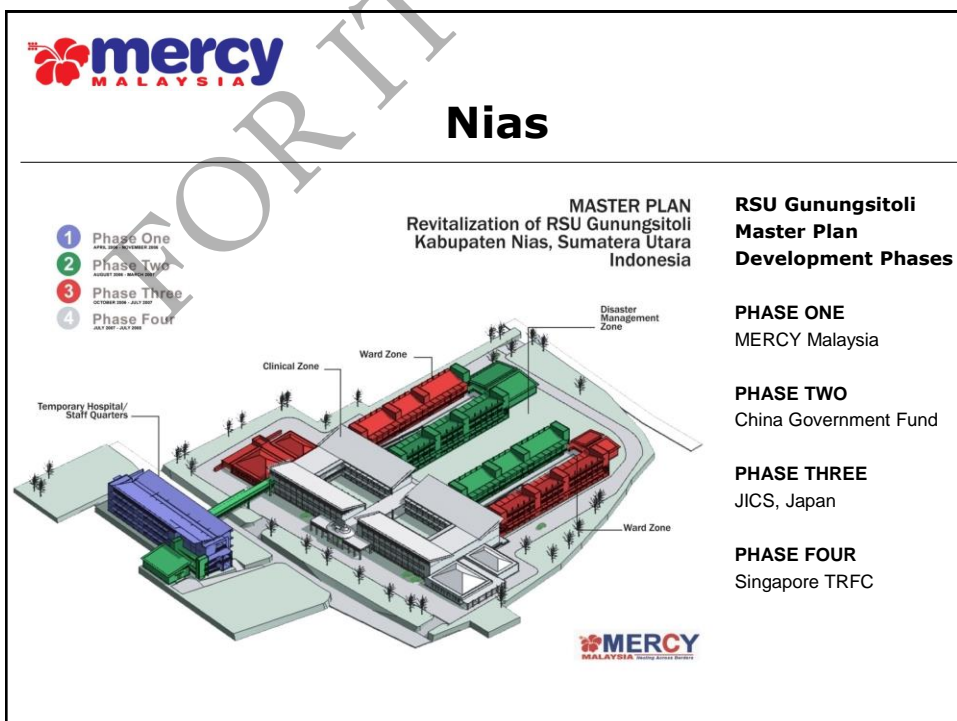
APPLICATION OF THE STRUCTURAL SYSTEM IN ACEH, INDONESIA



NURSING COLLEGE, UNSYIAH, ACEH DOUBLE LINTELS AT OPENING









Nias

Funded by MERCY Malaysia



Project

Gunungsitoli Hospital
(Phase One)

Location

Gunungsitoli, Nias

Sector/ Project Type

Medical Facilities

Beneficiaries

Communities of Nias

Value

Rp. 10,000,000,000

PHASE 1

Maternal and child facilities, ward, administration and surgical & emergency, laboratory facilities



Nias



PHASE 1

Maternal and child facilities, ward, administration and temporarily surgical and emergency, laboratory facilities



Nias

Funded by China Government through BRR RANTF



PHASE 2

Internal and surgical ward, main kitchen and laundry unit
Enclosed courtyard as disaster management zone (evacuation & safety)

Project

Gunungsitoli Hospital
(Phase Two)

Location

Gunungsitoli, Nias

Sector/ Project Type

Medical Facilities

Beneficiaries

Communities of Nias

Value

Rp. 11,500,000,000



Nias

PHASE 3, JAPAN GOVT. THROUGH JICS April 2008

Project

Gunungsitoli Hospital
(Phase Three)

Location

Gunungsitoli, Nias

Sector/ Project Type

Medical Facilities

Beneficiaries

Communities of Nias

Value

JPY 450,000,000



PHASE 3

Wards, ICU, clinics, medical records, pharmacy, IT, workshop
mortuary, stores



Nias

Project

Gunungsitoli Hospital
(Phase Four)

Location

Gunungsitoli, Nias

Sector/ Project Type

Medical Facilities

Beneficiaries

Communities of Nias

Value

RP 35,000,000,000



SINGAPORE

PHASE 4, TIDAL WAVE FUND SINGAPORE April 2009



PHASE 4

A&E, CME, clinics, Central OT, LAB, Rehab Medic & Infra



Educating the
communities



PREVENTION



mercy
MALAYSIA



**REBUILDING A SAFER ACEH
WORKSHOP**

**Model House and Nepal Seismic
Resistance Design, 19 April 2005**





Capacity Building



**>>REBUILDING A SAFER NIAS WORKSHOP
A BRR NIAS & MERCY MALAYSIA INITIATIVE<<**
GUNUNGSITOLI HOSPITAL, NIAS: 3-4 OCTOBER 06

Program
REBUILDING A SAFER
NIAS WORKSHOP

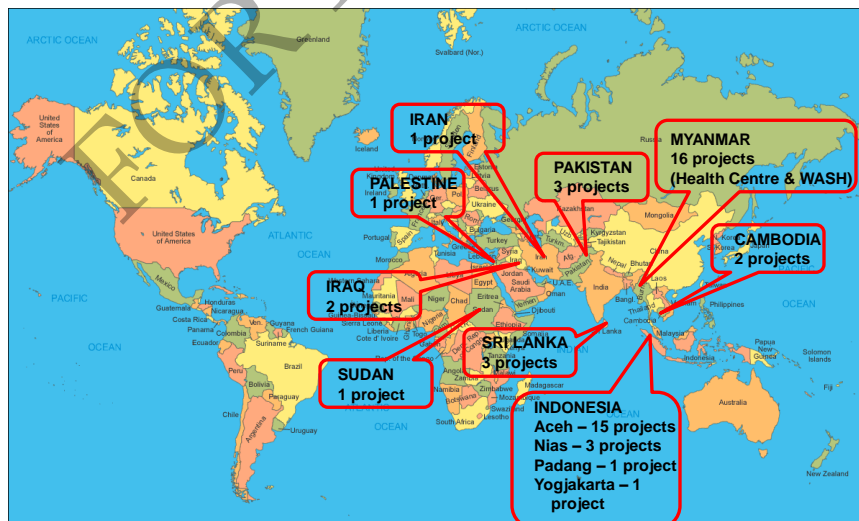
Location
Gunungsitoli, Nias

Sector/ Type
Capacity Building

Participation
MERCY Malaysia
BRR NAD-Nias
UN OCHA
UNHabitat
UNOPS
UNDP
Local Authorities
Other international NGO

Date
3-4 October 2006

MM Tech Team Projects





**EARTHQUAKES DO NOT KILL PEOPLE
BUT
UNSAFE STRUCTURES DO!!**

THANK YOU

**Dzulkarnaen Ismail
MERCY Malaysia
Universiti Teknologi MARA, Perak**

FOR ITN