

BAISEN & FLY HARBOR SCHOOL



DISASTER PLAN



ACKNOWLEDGEMENT

The village disaster plan has been developed by Solomon Islands Development Trust (SIDT) with the support of Federation of the People of the South Pacific International and PLAN International Australia in the scope of climate change adaptation and disaster risks reduction project called “Child-centered climate change adaptation (4CA). The 4CA phase 2 has been implemented in three communities (Marulaon, Karumulun and Baisen) and Fly Harbor Primary School in the West Russell Islands from 2014 to 2016.

Our sincere thanks to the disaster risks reduction stakeholders for their contribution towards the development of the disaster plan notably the National Disaster Management Office and the Solomon Islands Red Cross.

We acknowledge the communities who without their cooperation and participation the compilation of the required data and information would not have been possible.

The development of the Village Disaster is made possible through the generous support of the people of Australia through the Australian Aid assistance (DFAT)



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Glossary of Terms

CIP	Central Islands Province
DRR	Disaster Risk Reduction
EC	Evacuation Center
EWS	Early Warning Systems
IDA	Initial Damage Assessment
IRA	Initial Rapid Assessment
NDMO	National Disaster Management Office
NEOC	National Emergency Operation Center
PDO	Provincial Disaster Officer
PEOC	Provincial Emergency Operation Center
PPLE	People, Property, Livelihood, Environment
SAR	Search and Rescue
SIDT	Solomon Islands Development Trust
VCA	Vulnerability and Capacity Assessment
VDP	Village Disaster Plan
VDRC	Village Disaster Risk Committee
VRRAP	Village Risk Reduction Action Plan

1.0: Village Profile

1.1: Profile Statement

Baisen village was established in 1972 and situates on the most westerly end of Marulaon Islands one of islands that made up the Russell groups of Island in the Central Islands Province. Its highest point is about 5 meters above the sea level. About 50% of the houses are on the coast just less than a meter above sea level and another 50% and the school is situated on the higher ground about 4 to 5 meters above the sea level.

Baisen village is an Anglican community. Chief plays a key role in the affairs of the community. There are different existing institutions in the community, the Vestry committee, Mother's Union, companion, Youth and Sunday school, Health Promotion, Kindergarten, Village Disaster Risk Committee, Society of St Francis, Sister of the Church, Girls Friendly Society and Sister of Melanesia as in 1.2: Village Governance Structure below.

Fly Harbor School is adjacent to Baisen. It serves 8 communities including Marulaon, Karumulun and Baisen villages. Fly Harbor School since its establishment in the 1950s has been a boarding school and operates preparatory level to grade 6 with a total of 206 students (school enrolment, 2015).

Although, the community is sheltered in the harbor there are still a high chance of the village to be impacted by strong winds (the southerly wind), cyclone and coastal flooding which can impact wells, houses and other properties. The most westerly tip of the community shows some erosion happening.

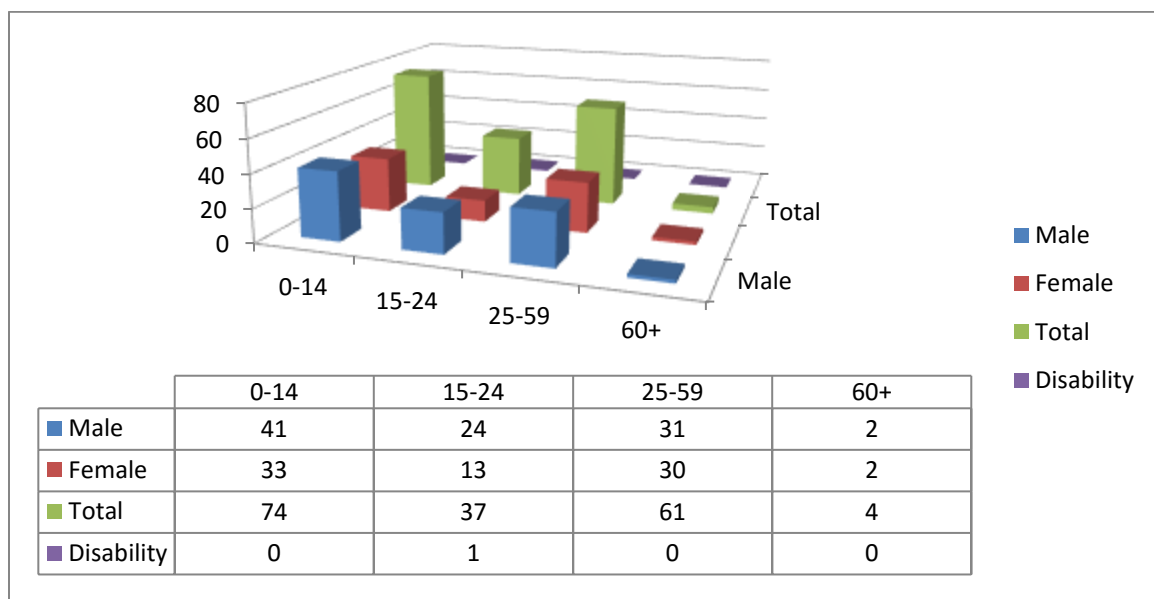
The population of Baisen village is 176 of which 56 % is male and 44% is female. There are 30 households. Refer to demographic information in figure 1.3: Population & households in the community.

Resources wise, Coconut (copra) is a main source of cash earnings for the community and marine resources are fairly easy to find and the community is also engaged in marine conservation. Most people are doing gardening around the community

1.2: Village Governance Structure



1.3: Population & Housing within the Community



Households in the community	
Permanent	2
Semi-permanent	4
Traditional Bush Materials	24
Total Household	30

1.4: Total of children attending school

School level	Level/Grade	Male	Female	Total
Kindy (ECE)	ECE	0	0	No ECE
Primary	(Prep- Grade 6)	18	11	29
Secondary	Year 7-9	6	5	11
	Year 10-13	4	1	5
Tertiary	SINU, USP, UPNG	1	2	3
Total		29	19	48

1.5: Professional & Skills Human resource inventory in the community

<i>Professional/Skill</i>	<i>Number of people</i>	<i>Male</i>	<i>Female</i>
Teachers	1	1	0
Doctor	0	0	0
Lawyers	0	0	0
Nurses	2	2	0
Diplomat	0	0	0
Police	2	2	0
ITC	1	1	0
Carpenter	1	1	0
Business man	-	-	-
Mechanic	2	2	0
Electrician	0	0	0
Cook (trained)	0	0	0
Chainsaw operator	5	5	0
Canoe builder	3	3	0
Fishing/diving	30	30	-
Bishop	0	0	0
Father	0	0	0
Priest	0	0	0
<i>Politician</i>			
Provincial Assembly	0	0	0

Parliament	0	0	0
TOTAL	45	45	0

1.6: Village Facilities and Infrastructure Profile

Village Facilities	How many	Comment
Religion		
• Church	2	Church Of Melanesia (COM) (1 Baisen & 1 School)
Education		
• Primary	Yes	1
• Secondary	No	Closest Nuklufero, and Yendina CHS
• Tertiary	No	Honiara
Health		
• First Aid post	nil	Marulaon about 10 minutes by OBM
• Clinic	No	
Water		
• stream	No	
• Well	Yes	6 wells (1-sch & 5-village)
• Tanks	yes	27 (sch-9 & village-18)
• Water supply	No	
Sanitation		
• Bush	yes	Older people & children
• Sea	yes	
• Pit	No	
• Indoor toilet	No	
Electricity		
• Get electricity?		Solar lighting
Economic		
Trade store	nil	
Canteen	3	
Market	-	On main land- about 15 minutes by 15 HP OBM
Fuel Depot	-	
Communication		
• 2 way Radio	Nil	
• Mobile phone	Yes	Network coverage not reliable, certain spots
• SIBC	Yes	

1.7: Village Practices

Subsistence Activity	Comment	Economic Activity	Comment
Gardening	Slash and burn	Cash crop	Copra main income generating activities
Fishing	Regular	Piggery/livestock	Some
Piggery	Some families	Fishing	Some people
Hunting	Sometimes	Logging	
Firewood	Collected from the bush	Tourism/accommodation	Potential for tourism but no accommodation
Sawmilling	Some families	Stores	Small canteen
Conservation	MPA	Sea weed	Some

1.8: Developments had done by other Organizations (Gov't, NGOs, donors, private) and those managed by the community

Name of Organization	Area of Work/assistance	Start Date	Finish Date	Outcome
SIDT	Climate change and Disaster	June 2014	June 2016	
World Vision	Maternal Health and Child Care			On-going
Ministry of Fisheries	Marine Conservation	2013	2018	On-going
Provincial Member	Water Tanks	2013	2013	installed
Member of Parliament	Water Tank	2012		
EU	Coconut Crashing Mill	2012	2014	completed
Community				
Baisen	Marine conservation	2013	2018	On-going
Baisen	Rest House	2015		

1.9: History of Disaster, Social & Economic events

YEAR	EVENTS	WHO AFFECTED	EFFECTS	COMMENT
1972	Establishment of Baisen		Created another community & established church	Former residents of Karumulun moved to Baisen
1986	Cyclone Namu	Solomon Islands	Destroy food garden and properties Loss of lives	Many people (overseas) helped Solomon Islands
1998-2003	Ethnic Unrest (tension)	Solomon Islands	No peace, bad economy, no medicine, no law & order, people stay in fear	RAMSI (Regional Assistance Mission to Solomon Islands) arrived in 2003 to restore law and order
2004-2015	RIPEL closed down	Laborers, Russell Islands indigenous people	Continuous dispute with RIPEL company No operation	Workers and indigenous people had experience hard times to earn money
2007	Tsunami	Western province	Loss of lives and properties Many were homeless	

1.10: Seasonal Calendar

Seasonability	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Hot season								x	x	x		
Cold season	x	x	x	x							x	x
Immigration						x					x	x
migration	x	x				x						
Income												
Fish selling												
Food selling												
Copra selling	x	x				x			x		x	x
Expense												
School fee	x	x				x	x					
Church activities										x		x
marriage												
Health												
Flu-cough-cold				x	x	x						
Stomach illness										x		x
Malaria		x	x	x								
Diarrhea						x	x					
Livelihood												
Shortage of food												
Shortage water						x	x	x				
Hazards												
Cyclone	x	x										x
Drought						x	x	x				
Fire												
Tsunami												

2.0 Guiding Policies and Principles

The following set of principles has been used to guide the development of the Baisen Village Disaster Plan. They are intended to guide its implementation and the ongoing development of Baisen Village Disaster Plan:

- **Promote participatory approaches in managing hazards, risks and disasters:** there is a need to empower vulnerable villages to participate and involve in preparing for disaster situations, response and recovery post disaster.
- **Disaster Risk Reduction to be inclusive and broad based:** This is an opportunity to change the situation in favor of greater gender equity and social inclusion.
- **Building Village capacities:** Greater resilience of any village is dependent on the capacity of the concerned village. As it is believed that building capacity is reducing vulnerability.
- **Village ownership and partnership across all sectors:** There is a need for the village to have sense of ownership of disaster risk reduction activities and plans. This is crucial for the success of these activities. Other sectors also need to recognize that it is everyone's business so that there is partnership across all sectors.
- **Faith based institutions:** Faith based institutions are considered as the strength and refuge in any village. As such, their involvement in addressing disaster risk reduction initiatives remains paramount. When faith based institutions take the lead role in risk reduction activities, people are bound to respect and act upon these plan.

3.0: Goal & Purpose

3.1: Goal

The population of Baisen village made safer in the event of a natural disaster and can be able to adapt to the impacts of climate change.

3.2: Purpose

An approved plan established that will guide the Village Disaster Risk Management Committee (VDRC) and the population of Baisen village in the event of a disaster, and in adapting to the growing threat of the of the impacts of climate change.

4.0 Process or Methodology

This Village Disaster Plan (VDP) has been developed through partnerships between the people of Baisen Village, Russell Islands, Central Islands Province, SIDT, Solomon Islands Red Cross and NDMO. Through this partnership a VDRC has been established and trained in participatory community based disaster risk management and from which a VDP has been developed. This village based interaction has resulted in the development of Hazard maps, vulnerability and Capacity Assessments, Evacuation Plans, Response Plan and DRR Action plan.

5.0 Village Practice and Hazard Vulnerability Assessment

Livelihood Practices and Hazards	Elements at Risk (e.g Gardens, Houses Economic Activity etc)	Potential Scale of Impacts (nuisance: Severe Local: widespread)	Vulnerability High/Medium/ Low	Risk (Vulnerability x Impacts)	Potential Solutions (for Response or Risk Reduction Plan)
Livelihood Practices: (Contributing to risk or exposed to hazards)	(Use PPLE as a guide: - People Property Livelihood Environment			High/Moderate/Low	(by village or needing provincial or national input)
Subsistence					
Economic					
Hazards					
Natural					
Cyclone	Houses, people, garden and properties	widespread	H	H	Strong houses, cut down trees close to houses
Tsunami	Houses, people, properties, water (well), sea weed farms	Widespread	H	H	Secure property and prepare to evacuate to high ground
Earthquake	People, properties, houses	widespread	M	M	
Drought	People, food gardens, water (well)	widespread	H	H	Increase water tank storage

Wave surge	People, houses, properties, water (well)	local	H	H	Secure properties, strong houses Raised & sealed well
Social					
No proper water and sanitation	People, children, women	Local	H	H	Proper water and sanitation
No Kindergarten (education)	People, children	local	L	M	Build kindy classroom
Poor communication	people	widespread	H	H	Tower (telekom or BMobile)
No Hall (evacuation hall)	People, children, women,	local	H	H	Build village evacuation center
Economic					
Non-operation of PIPEL	People, youth	widespread	H	L	Good Copra buyers and build proper copra shed

6.0 Warning Alert System and Arrangements

This section sets out the formal warning alert system and color codes used by the Solomon Islands for cyclones, wave surges and tsunami. The color codes are used in the village Response Plan to link the response action to the level of alert.

For cyclone, floods and wave surges, warnings will be issued by the meteorological service through the Solomon Islands Broadcasting Corporation (SIBC) and through text messages (telekom and Bmobile). Advice will also be issued to the provinces by the Disaster Coordinator through the National Emergency Operating Center (NEOC) For Tsunami and other hazards, warning alerts and stand-downs will be issued by the Disaster Coordinator through the NEOC.

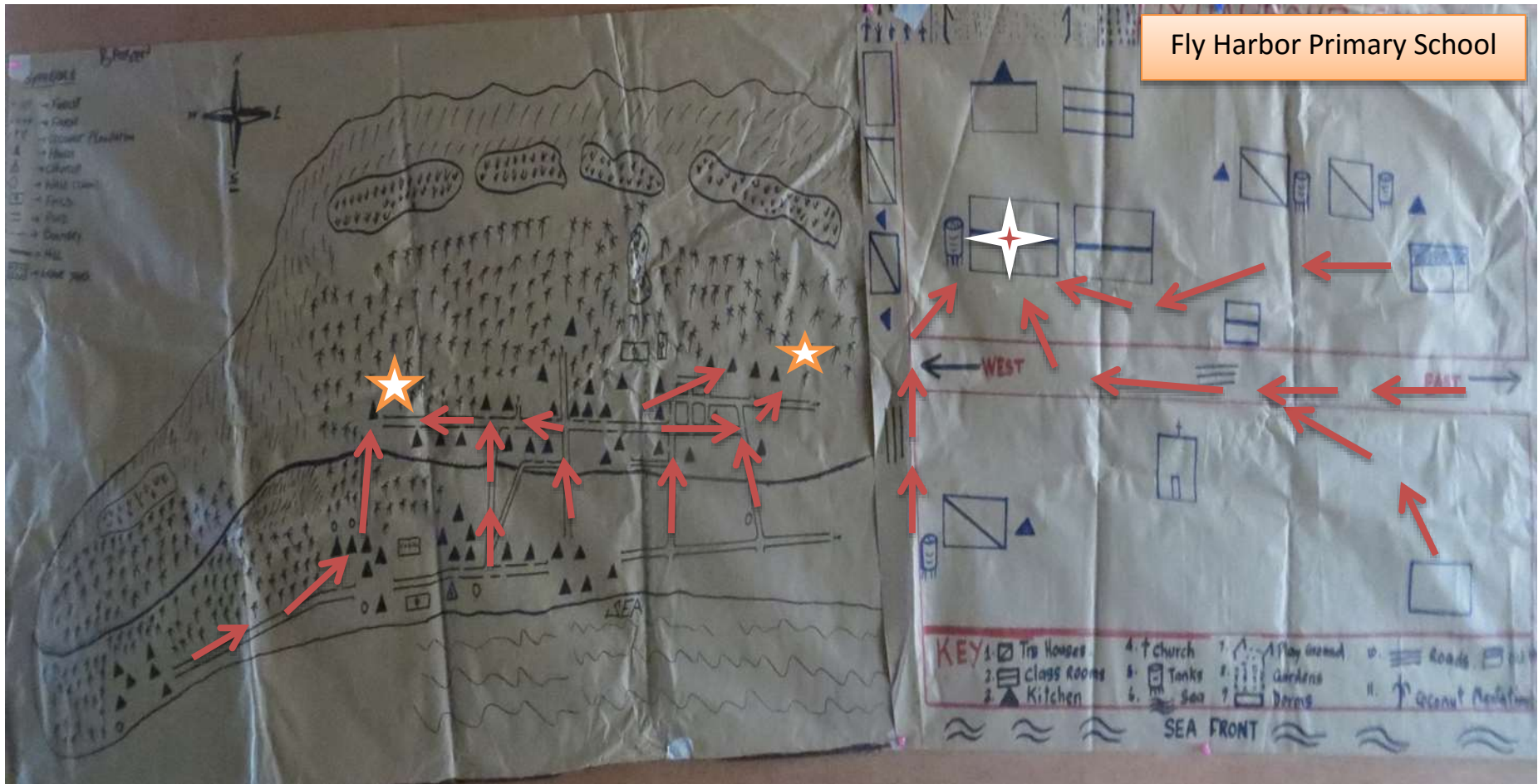
Warning Codes	Cyclones- Features/Characteristics
BLUE ALERT May occur within 24 hours	A cyclone is in the area and strong winds are developing. Cyclone may occur within the next 24—48 hours Wave surges and heavy rain may occur Start taking pre-cautionary measures
YELLOW ALERT Likely within 12 hours	Cyclone threat is increasing Gale force winds (65-90 km/hour) likely within the next 12 hours Wave surges and heavy rain likely Secure houses, properties and canoes and prepare for cyclone
RED ALERT Imminent within 3—12 hours	Cyclone warning. Cyclone winds (greater than 120 km/hour) expected within 3—12 hours Waves surges and heavy rain expected Complete preparations urgently and move to a secure place
Warning Codes	Flooding/wave surge—Features/Characteristics
BLUE ALERT May within 24 hours	Heavy rain warning- Flooding may follow in 24—48 hours Heavy swell warning- high waves may likely in 24 – 48 hours Start taking pre-cautionary measures
YELLOW ALERT Likely within 12 hours	Heavy rain warning- Flooding likely in next 12 hours Heavy swell warning- High waves likely in next 12 hours Take action to secure gardens, property and canoe
RED ALERT Imminent within 3—12 hours	Heavy rain warning— Flooding expected in 3—12 hours Heavy swell warning—3.5 m+ waves expected within 3—12 hours Complete preparations urgently and move to a secure place
Warning Codes	Tsunami—Features/ Characteristics
YELLOW WATCH Possible tsunami More than 3 hours away	Tsunami Watch A Tsunami is possible—it is more than 3 hours away Updates will follow Secure property and canoes and prepare to evacuate to high ground
RED WARNING Possible or likely within 3 hours	Tsunami Warning. There is a threat of tsunami occurring within 3 hours Move now to higher ground The warning will indicate expected arrival time. Waves may occur for another hour. Channels and exposed points may have turbulence for several hours If unusual sea movements occur following an earthquake run to high ground as fast as you can- you may have less than 5 minutes

6.1 Village Response Plan

Responsible Group	ACTIONS (What)					
	Each level of ALERT must be activated by the chair of the Village Disaster Risk Committee or nominated person					
	Blue Alert Event may occur within 24—48 hours	Yellow Alert Event likely in 12+ hours For Tsunami-possible in 3+ hours	Red Alert Event likely in 3-12 hours For Tsunami-imminent inside 3 hours	Immediate Response Event has occurred and response is in progress	Relief and Early Recovery On-going relief and preparation for early recovery	Reporting to VDRC Chair After every task is completed. Reporting of status and actions by responsible person from each group
Stand-Down: at any phase a formal stand down may be issued by the disaster coordinator						
VDRC Chair	Issue initial EWS (cone shell) Call VDRC meeting	Assist community committee to ensure safety of the community	Ensure everyone stays safe until information radio from responsible authority	Coordinate VDRC to do IRA Communicate with responsible offices - PEOC/NEOC	Assessment from VDRC and village chief Forward all information to PDC	Chief, VDRC Chair, PDC, PEOC, NEOC
Village chief	VDRC assign tasks to various groups Turn on radio for further warning	Assist VDRC in evacuation of people to EC Keep listening to the radio	Carry out head count Manage EC and ensure food and water are well	Head count		

			managed			
			Listen to Radio for further advice			
Youth	Strengthen kitchen and houses Girls assist women collect food Collection of food & firewood	Assist in evacuation of people to safe place or EC	Give security and assist in caring for people	Involve in research and operation Assist in clean up	Help in relief and recovery activity	Chairman
Women	Collect food, firewood and water to EC or safe place Store properties safely	Prepare EC and assist children to evacuation center	Prepare food for the families Assist most vulnerable people Make sure children are not moving around	Check in the garden and collect remaining food to feed families	Assist in relief	VDRS Chair
Men's group	Assist women collect fire wood and food Assist youth strengthen houses	Ensure old, children and disabled people are at the safe place such as high ground	Move old & disabled people to a safe place	Repair and rebuild damaged houses Assist in clean up	Assist in relief	VDRS Chair
VDRS	Ensure all groups participate in preparatory activities well.	Assist in the evacuation of people to safe place/EC	Ensure everyone stays in door	Conduct IRA with the VDRS chair & chief and village committees	Coordinate IRA and assist in relief	VDRS Chair

7.0 Village Map for layout, Facilities, Hazards and Response



7.0 Village Risk Reduction Action Plan - for increasing village resilience

NO	Objective (Address specific Part 4 practice or hazards)	Actions (Steps to achieve a chosen solution or reduction to the risk issue)	Date/ Time Frame	By Whom (Villager assigned to progress the issue)	Cost estimated	Other Resources and stakeholders (involved agencies)	Remarks
1	Priority 1 Proper water supply	<ul style="list-style-type: none"> •Community meeting • Identify water source • Community consults different agencies • Seek assistance from Provincial member or MP, NGOs & Gov't • Draw proposal application & Submit 	4 months	VDRC	\$ 200,000	Provincial Assembly member, MP, Provincial RWSS, NGOs	Consult MP and Ward member for support towards the proposal
	Proper sanitation provided	<ul style="list-style-type: none"> • Construct proper sanitation • Community assist to dig the pits 	March 2017	VDRC & Community	\$ 40,000	NGOs, RWSS, MP, Province, Ward member Community	Consult PWASH and NGOs
2	Priority 2 Village have access to a better	<ul style="list-style-type: none"> • Identify site for the kindergarten classroom • Discuss with CIP Education authority • Seek help from NGOs, 	End of 2016	VDRC & Kindy committee	\$ 50,000	CIP Education Authority, MP	

	kindergarten school	<ul style="list-style-type: none"> Gov't, Donor Construct kindy classroom 					
3	Priority 3 Have access to better mobile communication	<ul style="list-style-type: none"> Meet with Bmobile or Telekom Discuss with land owning groups for tower site 	January 2017	VDRC		Bmobile, Telekom	
4	Priority 4 Build proper Evacuation center	<ul style="list-style-type: none"> Discuss with school board & administration Apply for funding for evacuation center Submit application Awareness 	January 2018	VDRC		NDMO, NGOs, Red Cross	
5	Priority 5 Plant trees	<ul style="list-style-type: none"> Community meeting Nursary 	On-going	VDRC & School		WV, NGOs	Community work to assist in the activity

9.0 Tasks and Responsibilities

Responsibility for the disaster preparedness and response rests with the Baisen/Fly Harbor Disaster Risk Committee, which is to take the following actions and those outlined in tables 5.1 and 7.0:

- Implement the activities stipulated in the disaster risk reduction action plans.
- Ensure village members understand what action they should take in response to issue warnings
- Maintain close liaison with the Central islands Provincial Disaster Office/officer
- Undertake any other preparedness measure which may be deemed necessary in the light of village circumstances, knowledge and requirements
- Consult with government departments and other partners concerning their state of preparedness

10.0 Village Disaster Risk Committee Contact Directory

Name	Position	Role	Landline	Mobile	Emergency Number
Community Contact					
Andrew Gesu	VDRC Chairman	VDRC Chairman		7671462	
Beslyn Piru	VDRC Vice Chairman	VDRC Vice Chairman		7619838	
NDMO Contacts					
Loti Yates	Director	NDMO Director	27937/27936		955
	Manager	NEOC Manager			955
Danny Ruele	PDO	PDO- CIP		7801094	
Other Contacts					
Meteorology Services			27658		933
Police (Tulagi)			32999		999
National Disaster Dial (Tulagi)			27936		

11.0 Village Disaster Risk Committee Plan Review Process

Ref No	Name	Position in the village	Signature
1.	Andrew Haridi Gesu	VDRC Chairman	
2.	Beslyn Piru	VDRC Vice Chairman	
3.	Winnie Haridi	VDRC Secretary	
4.	Dorah Teimana	VDRC Member (Women Rep)	
5	Ramsey Fox	VDRC Member (Church rep)	
6	Derrick Madrin	Member (Village Rep)	
7	Michael Omuan	Member	
8.	Anna Deska	Member	
9.	Ronlie Rauomea	Member	

12.0 Authority

The village disaster plan has been endorsed by:

 Provincial Secretary- Central Islands Provincial Disaster Chairman

 CCA/DRR – Coordinator (SIDT)

 Provincial Disaster Officer

 Chairman- Karumulun Disaster Risk Committee

