



REPUBLIC OF THE PHILIPPINES  
**NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL**

National Disaster Risk Reduction and Management Center, Camp Aguinaldo, Quezon City, Philippines

## **NDRRMC UPDATE**

### **Final Report re Effects of Magnitude 5.9 Earthquake in Kadingilan, Bukidnon (18 November 2019)**

**Releasing Officer:**

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Executive Director, NDRRMC and  
Administrator, OCD

Sources: DOST-PHIVOLCS, DSWD, DepEd, DOH, BFP, and OCDROs X,, XI, XII, and BARMM

#### **I. SITUATION OVERVIEW**

On **18 November 2019**, at around 9:22 PM, an earthquake with Magnitude 5.9 (Mw) and depth of 005 km occurred in Kadingilan, Bukidnon with the following intensities:

<b>INTENSITY</b>	<b>AREAS AFFECTED</b>
<b>Intensity VI</b>	Kadingilan, Kalilangan, Don Carlos, Maramag, Kitaotao and San Fernando, Bukidnon
<b>Intensity V</b>	Damulog, Talakag and Valencia City, Bukidnon; Midsayap, Cotabato; Kidapawan City; Marawi City
<b>Intensity IV</b>	Impasugong and Malaybalay, Bukidnon; Malungon, Sarangani; Antipas, Cotabato, Rosario, Agusan Del Sur; Cotabato City; Davao City; Koronadal City; Cagayan De Oro City
<b>Intensity III</b>	Malitbog, Bukidnon; Tupi, South Cotabato; Manticao, Misamis Oriental; Tubod and Bacolod, Lanao Del Norte; Alabel, Sarangani; Gingoog City; Pagadian City; Iligan City
<b>Intensity II</b>	Polomolok, Lake Sebu and Tampakan, South Cotabato; Kiamba, Sarangani; Mambajao, Camiguin; Sindangan and Polanco, Zamboanga Del Norte; Molave, Zamboanga Del Sur; Dipolog City; General Santos City
<b>Intensity I</b>	Zamboanga City
<b>Instrumental Intensities:</b>	
<b>Intensity IV</b>	Cagayan De Oro City; Kidapawan City; Koronadal City; Malungon, Sarangani
<b>Intensity III</b>	Gingoog City; Davao City; Tupi, South Cotabato; Alabel, Sarangani
<b>Intensity II</b>	Kiamba, Sarangani; General Santos City
<b>Intensity I</b>	Zamboanga City; Bislig City

## II. EFFECTS

### A. Affected Population

1. A total of **1,114 families / 5,039 persons** were affected in **19 barangays** in Region X.
2. Out of the total affected, **227 families / 744 persons** in Bukidnon took temporary shelter in 2 evacuation centers.

REGION / PROVINCE / CITY / MUNICIPALITY	NO. OF AFFECTED			SERVED POPULATION		
	Brgys.	Families	Persons	No. of ECs	INSIDE ECs	
					Families	Persons
<b>GRAND TOTAL</b>	<b>19</b>	<b>1,114</b>	<b>5,039</b>	<b>2</b>	<b>227</b>	<b>744</b>
<b>REGION X</b>	<b>19</b>	<b>1,114</b>	<b>5,039</b>	<b>2</b>	<b>227</b>	<b>744</b>
<b>Bukidnon</b>	<b>19</b>	<b>1,114</b>	<b>5,039</b>	<b>2</b>	<b>227</b>	<b>744</b>
Damulog	1	21	105	-	-	-
Dangcagan	7	66	330	-	-	-
Don Carlos	1	164	492	1	164	492
Kadingilan	7	657	3,145	-	-	-
Kitaotao	1	141	705	-	-	-
Maramag	1	63	252	1	63	252
City of Valencia	1	2	10	-	-	-

Source: DSWD DROMIC Report No. 6 on the Mw 5.9 Earthquake Incident in Kadingilan, Bukidnon

### B. Casualties

A total of **12 persons** were reported injured and were referred to the nearest hospital for further treatment and management.

NAME	AGE / SEX	ADDRESS
Alma Lagayan	35 yrs. old / Female	Kibawe, Bukidnon
Vivian Wong	24 yrs. old / Female	Kibawe, Bukidnon
Carl Dave Sanico	7 yrs. old / Male	Kibawe, Bukidnon
Louela V. Guarin	52 yrs. old / Female	Maramag, Bukidnon
Christian A. Tagaylo	14 yrs. old / Male	Maramag, Bukidnon
Renante G. Balingkit	35 yrs. old / Male	Maramag, Bukidnon
Aisa Mae I. Balingkit	24 yrs. old / Female	Maramag, Bukidnon
Jojo Ampaña	32 yrs. old / Male	Maramag, Bukidnon
Anita Balingkit	61 yrs. old / Female	Maramag, Bukidnon
Luke Andrew Bergaña	5 yrs. old / Male	Kinora, Kalilangan
Aida M. Lantong	50 yrs. old / Female	Ninoy Aquino, Kalilangan
Imelda D. Acma	51 yrs. old / Female	Maramag, Bukidnon

### C. Damage

#### 1. Damaged Houses

A total of **875 houses (459 totally, 416 partially)** were reported damaged in the Province of Bukidnon.

REGION / PROVINCE / MUNICIPALITY	TOTALLY	PARTIALLY	TOTAL
<b>Grand Total</b>	<b>459</b>	<b>416</b>	<b>875</b>
<b>Region X</b>	<b>459</b>	<b>416</b>	<b>875</b>
<b>Bukidnon</b>	<b>459</b>	<b>416</b>	<b>875</b>
<i>Kadingilan</i>	<i>386</i>	<i>271</i>	<i>657</i>
<i>Dangcagan</i>	<i>1</i>	<i>1</i>	<i>2</i>
<i>Valencia City</i>	<i>0</i>	<i>2</i>	<i>2</i>

REGION / PROVINCE / MUNICIPALITY	TOTALLY	PARTIALLY	TOTAL
<i>Damulog</i>	0	21	21
<i>Kitaotao</i>	23	121	144
<i>Maramag</i>	49	0	49

Sources: OCD RO X and DSWD DROMIC Report No. 6 on the Mw 5.9 Earthquake Incident in Kadingilan, Bukidnon

## 2. Damaged Infrastructure (TAB A)

A total of **120 infrastructures (102 schools, 7 health facilities, 9 public structures, and 2 places of worship)** in **Regions X, XI, and XII** were reported damaged due to the earthquake incident.

### D. Suspension of Classes

A total of **nine (9) province/cities/municipalities** in **Regions X and BARMM** declared suspension of classes on 19 November 2019.

Region/Province/ City/Municipality	Remarks	Date of Suspension	Date Resumed
<b>Region X</b>			
<b>Bukidnon</b>			
<i>Valencia City</i>	All levels	19 November 2019	20 November 2019
<i>Maramag</i>	All levels	19 November 2019	20 November 2019
<i>Dangcagan</i>	All levels	19 November 2019	20 November 2019
<i>Kalilangan</i>	All levels but only specific to those occupying 2-3 storey buildings	19 November 2019	20 November 2019
<i>Don Carlos</i>	All levels	19 November 2019	20 November 2019
<i>Kitaotao</i>	All levels	19 November 2019	20 November 2019
<i>Quezon</i>	All levels	19 November 2019	20 November 2019
<i>Malaybalay City</i>	All levels	19 November 2019	20 November 2019
<b>BARMM</b>			
<i>Maguindanao</i>	All levels	19 November 2019	20 November 2019

Sources: OCD RO X and DepEd

## III. DISASTER PREPAREDNESS AND RESPONSE

### A. NATIONAL DRRM COUNCIL (NDRRMC)

#### 1. NDRRM Operations Center (NDRRMOC)

- Maintained **BLUE ALERT** status.
- Prepared the Emergency Alert Warning Message (EAWM) and forwarded to Telecommunication Companies for dissemination to the affected areas.
- Coordinated with partner agencies and regional offices for response actions.

#### 2. Department of Social Welfare and Development–DRMB (DSWD – DRMB)

- Coordinated with DSWD–FO X for significant disaster response updates.
- Placed all QRT members and emergency equipment on standby and ready for deployment.
- Raised the alert status of DRMB-DROMIC Operations Center to BLUE.

#### 3. Department of Health Emergency Alert Reporting System (DOH-HEARS)

- Coordinated with the Centers for Health Development (CHD) X, XI, and XII regarding the incidents monitored.

- b. Coordinated with DOST-PHIVOLCS for updates.

#### **4. Department of Education (DepEd)**

- a. Monitored the divisions and schools affected by the earthquake for class suspensions, infrastructure and non-infrastructure damages, casualties, and other effects.
- b. Advised the affected regions and divisions to send the Rapid Assessment of Damage Report (RADaR 1 and 2).
- c. Field personnel assessed the damages in schools due to the earthquake.
- d. Provided assistance to ensure learning continuity.
- e. Conducted field visit for damage assessment to the affected DepEd offices and schools due to the earthquake.

#### **5. Bureau of Fire (BFP)**

- a. BFP stations/units within the affected area and nearby Municipalities, Cities, and Provinces conducted building inspection/assessment and remained on guard to critical infrastructures, buildings, and establishments for any eventualities.
- b. Placed all personnel on standby to respond to any untoward emergency incident.
- c. Placed SRU on standby for emergency response, deployment, and augmentation.

### **B. Regional DRRM Council (RDRRMC)**

#### **1. RDRRMC X**

##### **Office of Civil Defense X (OCD X)**

- a. Coordinated with PDRRMO Bukidnon and MDRRMO Kadingilan, Dangcagan, Damulog, Don Carlos, Kitaotao, and CDRRMO Valencia City relative to the incident.
- b. Coordinated with DPWH Region 10 regarding the situation of bridges, highways, and roads.
- c. Monitored the incident.

##### **DSWD-FO X**

- a. Conducted a Damage Assessment and Needs Analysis (RDANA) in the affected area.
- b. Monitored the situation and coordinated with the respective Provincial/City/Municipal/Local Disaster Risk Reduction and Management Offices (P/C/M/LDRROs) and Social Welfare and Development Team Leader (SWDTL) of each province within the region.

##### **PDRRMC Bukidnon**

Coordinated with the Municipal DRRMOs in the Province of Bukidnon to confirm and gather data about the incident.

##### **MDRRMC Kadingilan**

Provided 119 pcs of laminated sacks to be used as temporary shelter.

##### **MDRRMC San Carlos**

Provided food packs to affected residents and responders.

**MDRRMCs Dangacan, Damulog, Kadingilan, and CDRRMC Valencia City**

- Conducted assessment within respective AOR for any damage brought by the earthquake.
- Advised damaged house owners to submit requirements for financial assistance.
- Referred to the Municipal Engineer's Office (MEO) all damaged infrastructures for further investigations and assessment.

**MDRRMC Kadingilan, Maramag, and Don Carlos**

Distributed tents in its respective AOR.

**DSWD X**

Provided family food packs and laminated sacks to affected families with breakdown as follows:

Municipality	Item	Amount
Kadingilan	180 laminated sacks	₱195,120.00
Don Carlos	132 FFPs and 19 laminated sacks	₱47,520.00
Maramag	328 FFPs and 164 laminated sacks	₱118,080.00

**DOH X-Health Emergency Management Bureau (HEMB)**

- Raised its Code Alert.
- Provided healthcare services in the Municipalities of Kadingilan, Don Carlos, and Maramag.
- Coordinated with CHD X, XI, and XII; and issued flash report relative to the monitored incident.
- Coordinated with DOST-PHIVOLCS for updates.

**Northern Mindanao Center for Health Development (CHD X)**

- Deployed RDANA Team in 17 barangays together with BFP, PNP, and Philippine Army to assess the damage incurred in affected areas.
- Provided food packs to patients and hospital staff in Simbulan, Sto. Niño through LGU responders.
- Coordinated with PDOHO-Bukidnon, OCD X, and Local DRRM Offices re affected areas.

**C. COST OF ASSISTANCE**

A total of **₱1,128,760.00** worth of assistance was provided to the affected families.

REGION / PROVINCE / MUNICIPALITY	COST OF ASSISTANCE				
	DSWD	LGU	NGOs	OTHERS	GRAND TOTAL
<b>GRAND TOTAL</b>	<b>428,760.00</b>	<b>200,000.00</b>	-	<b>500,000.00</b>	<b>1,128,760.00</b>
<b>REGION X</b>	<b>428,760.00</b>	<b>200,000.00</b>	-	<b>500,000.00</b>	<b>1,128,760.00</b>
<b>Bukidnon</b>	<b>428,760.00</b>	<b>200,000.00</b>	-	<b>500,000.00</b>	<b>1,128,760.00</b>
<i>Dangcagan</i>	<i>47,520.00</i>	-	-	-	<i>47,520.00</i>
<i>Don Carlos</i>	<i>118,080.00</i>	<i>100,000.00</i>	-	-	<i>218,080.00</i>
<i>Kadingilan</i>	<i>195,120.00</i>	-	-	<i>500,000.00</i>	<i>695,120.00</i>
<i>Maramag</i>	<i>68,040.00</i>	<i>100,000.00</i>	-	-	<i>168,040.00</i>

Source: DSWD DROMIC Report No. 6 on the Mw 5.9 Earthquake Incident in Kadingilan, Bukidnon

**Effects of Magnitude 5.9 Earthquake in Kadingilan, Bukidnon**  
**DAMAGE TO INFRASTRUCTURE - SCHOOLS**

AREA		TOTALLY DAMAGED	PARTIALLY DAMAGED	REMARKS
<b>SCHOOLS</b>	<b>102</b>	<b>0</b>	<b>102</b>	
<b>Region X</b>	<b>96</b>	<b>0</b>	<b>96</b>	
<b>Bukidnon</b>	<b>95</b>	<b>0</b>	<b>95</b>	
Damulog	Anggaan ES	-	1	Minor and major cracks on classrooms' wall
	Basag ES	-	1	Minor and major cracks on classrooms' wall
	Buluan ES	-	1	Minor cracks on classrooms' wall
	Damulog Central School	-	1	Minor cracks on classrooms' wall
	Macapari National HS Dormitory	-	1	Minor and major cracks on classrooms' wall
	Old Damulog National HS	-	1	Minor cracks on classrooms' wall
	Pocopoco Es	-	1	6 classrooms damaged and 1 totally classroom damaged
Dangcagan	Sarawagon Es	-	1	4 classrooms damaged and 1 totally damaged classroom
	School in Brgy Barongcot	-	1	4 classrooms with cracks on columns and walls.
Don Carlos	Bocboc Nhs	-	1	1 classroom damaged
	Buyot Es	-	1	4 classrooms damaged
	Don Carlos Nhs	-	1	5 classrooms damaged
	Don Carlos Norte Es	-	1	4 classrooms damaged
	Minsalagan Es	-	1	5 classrooms damaged
	New Nongnongan Nhs	-	1	25 classrooms damaged
	New Nongnongan Nhs - San Nicolas Annex	-	1	3 classrooms damaged
Kalilangan	Agaton Elementary School	-	1	4 classrooms damaged
	Kalilangan National High School	-	1	5 classrooms damaged
Kadingilan	Kadingilan Central Elementary School	-	1	1 totally damaged classroom , 9 partially damaged classrooms
	Kibalagon Elementary School	-	1	Cracked walls
	Public Terminal	-	1	Cracks on the columns
	San Isidro Elementary School	-	1	One room unsafe
	San Isidro High School	-	1	Ceiling fell down (detached), One room unsafe to occupy
	SANHS- Annex Cabadiangan	-	1	Cracks on columns and walls.
	San Andres National High School	-	1	2 classrooms damaged
Kibawe	Sibonga Elementary School	-	1	1 classroom damaged
	Kibawe National High School	-	1	11 classrooms damaged
Kitaotao	Mascarinas Es	-	1	3 classrooms damaged
	Balocbocan Elementary School	-	1	1 classroom with minor cracks on the wall
	Kauyonan Barangay School's classroom	-	1	minor cracks on the wall
	Kalumihan Barangay School	-	1	1 classroom totally damaged
	Kitaotao Nhs	-	1	4 classrooms damaged
	Kitubo National High School	-	1	15 classrooms damaged
	North Dalurong Es	-	1	1 classroom damaged
	Sinuda Ces	-	1	5 classrooms damaged
	South Dalurong Integrated School	-	1	5 classrooms damaged
	West Dalurong Barangay School	-	1	3 classrooms with minor cracks on the wall
Malaybalay City	Apo Macote National HS	-	1	Minor damaged
	Bangcud NHS	-	1	Minor damaged
	Casisang SHS	-	1	Minor damaged
	Dalwangon ES	-	1	Minor damaged
	Incalbog ES	-	1	Minor damaged
	Airport Village Es	-	1	4 classrooms damaged
	Binalbagan ES	-	1	Minor damaged
	Lunokan ES	-	1	Minor damaged
	Mabuhay Es	-	1	6 classrooms damaged
	Malaybalay City NHS	-	1	Minor damaged
	Silae ES	-	1	5 classrooms damaged
	Mapayag ES	-	1	5 classrooms damaged
Maramag	Bukidnon NHS	-	1	28 classrooms damaged
	Luyungan HS	-	1	Minor damaged
	Camp I Es	-	1	4 classrooms damaged
Pangantucan	Maramag Central Elementary School	-	1	12 classrooms damaged
	San Miguel Ces	-	1	3 classrooms damaged
	Pangantucan Community College	-	1	Cracks on the walls
	Kidanggin Es	-	1	4 classrooms damaged
	Kipaducan Es	-	1	4 classrooms damaged
	Langcataon Nhs	-	1	2 classrooms damaged
Quezon	Lantay Elementary School	-	1	3 classrooms damaged
	New Iloilo Es	-	1	5 classrooms damaged
	Pangantucan Central Elementary School	-	1	5 classrooms damaged
	Dilapa Elem School	-	1	9 classrooms damaged
San Fernando	Libertad Es	-	1	5 classrooms damaged
	Salawagan Ces	-	1	10 classrooms damaged
	Halapitan Ces	-	1	10 classrooms damaged
Talakag	Kalagangan Central School	-	1	6 classrooms damaged
	Mabuhay Es	-	1	6 classrooms damaged and 6 totally classroom damaged
	Sto Nino Es	-	1	6 classrooms damaged
	Bantal ES	-	1	Minor damaged
	Colonia ES	-	1	Minor damaged
	Dabongdabong ES	-	1	Minor damaged
	Lourdes IS	-	1	Minor damaged
	Lumbo ES	-	1	Minor damaged
	Lurugan ES	-	1	Minor damaged
	Mahayahay ES	-	1	Minor damaged
	Mailag CES	-	1	Minor damaged
	Nabag-o ES	-	1	Minor damaged
	San Carlos ES	-	1	Minor damaged
San Vicente ES	-	1	Minor damaged	

AREA		TOTALLY DAMAGED	PARTIALLY DAMAGED	REMARKS
Valencia City	Sinalayan ES	-	1	Minor damaged
	Sinayawan CES	-	1	Minor damaged
	Tagalawa ES	-	1	Minor damaged
	Tandacol ES	-	1	Minor damaged
	Vintar ES	-	1	Minor damaged
	Macote ES	-	1	Minor damaged
	Managok NHS	-	1	Minor damaged
	Sta. Ana ES	-	1	Minor damaged
	Airport Village Es	-	1	4 classrooms damaged
	Lunokan Es	-	1	1 classroom damaged
	Malaybalay City Nhs	-	1	1 classroom damaged
	Binalbagan Es	-	1	1 classroom damaged
	Bukidnon Nhs	-	1	28 classrooms damaged
	Mabuhay Es	-	1	6 classrooms damaged
Mapayag Es	-	1	5 classrooms damaged	
Silae Es	-	1	5 classrooms damaged	
<b>Misamis Oriental</b>	1	<b>0</b>	<b>1</b>	
<i>Lugait</i>	Biga Es	-	1	1 classroom damaged
<b>Region XI</b>	2	<b>0</b>	<b>2</b>	
Davao del Sur	2	<b>0</b>	<b>2</b>	
<i>Hagonoy</i>	Romaquera Es	-	1	3 classrooms damaged
<i>Matanao</i>	Buri Es	-	1	5 classrooms partially damaged and 3 classrooms totally damaged
<b>Region XII</b>	4	<b>0</b>	<b>4</b>	
<b>Cotabato City</b>	2	<b>0</b>	<b>2</b>	
<i>Cotabato City</i>	L.R. Sebastian Es	-	1	1 classroom damaged
	Tamontaka Central School	-	1	4 classrooms damaged
<b>South Cotabato</b>	2	<b>0</b>	<b>2</b>	
<i>Banga</i>	San Vicente ES	-	1	2 classrooms damaged
	Santo Niño M. Roxas ES	-	1	4 classrooms damaged

Sources: OCD X and DepEd

**Effects of Magnitude 5.9 Earthquake in Kadingilan, Bukidnon**  
**DAMAGE TO INFRASTRUCTURE - OTHERS**

AREA		TOTALLY DAMAGED	PARTIALLY DAMAGED	REMARKS
<b>GRAND TOTAL</b>	<b>18</b>	<b>0</b>	<b>18</b>	
<b>HEALTH FACILITY</b>	<b>7</b>	<b>0</b>	<b>7</b>	
<b>Region X</b>	<b>7</b>	<b>0</b>	<b>7</b>	
<b>Bukidnon</b>	<b>7</b>	<b>0</b>	<b>7</b>	
<i>Dangcagan</i>	Maternal Care Package (MCP)-Lying in	-	1	With cracks in ward and lobby; functional
<i>Don Carlos</i>	New Nong (BHS)	-	1	With minor damages; functional
<i>Kadingilan</i>	Health Center	-	1	Major damaged on the ceiling and cracked wall; functional
	Brgy. Kibogtok Health Station (BHS)	-	1	Ceiling and wall cracks; functional
<i>Kitaotao</i>	Bershiba Health Station (BHS)	-	1	Minor cracks on the wall
<i>Maramag</i>	Rural Health Unit (RHU)	-	1	Damages on ceiling; partially functional
<i>Pangantucan</i>	Langcaton Health Station (BHS)	-	1	With minor damages; functional
<b>PUBLIC</b>	<b>9</b>	<b>0</b>	<b>9</b>	
<b>Region X</b>	<b>9</b>	<b>0</b>	<b>9</b>	
<b>Bukidnon</b>	<b>9</b>	<b>0</b>	<b>9</b>	
<i>Kadingilan</i>	Public Terminal	-	1	Cracks on the columns
<i>Maramag</i>	Camp 1 Brgy Hall	-	1	Partially damaged
	Bobong Barangay Hall	-	1	Minor cracks on the wall
	Bobong BNS/BSPO Building	-	1	Minor cracks on the wall
	SC/CVO Building	-	1	Minor cracks on the wall
<i>Kitaotao</i>	Bobong Barangay Stage	-	1	Minor cracks on the wall
	Bershiba Barangay Hall	-	1	Minor cracks on the wall
	Bershiba Barangay Stage	-	1	Minor cracks on the wall
	Kalumihan CVO Outpost	-	1	Minor cracks on the wall
<b>PLACE OF WORSHIP</b>	<b>2</b>	<b>0</b>	<b>2</b>	
<b>Region X</b>	<b>2</b>	<b>0</b>	<b>2</b>	
<b>Bukidnon</b>	<b>2</b>	<b>0</b>	<b>2</b>	
<i>Kitaotao</i>	Community Chapel	-	1	Minor cracks on the wall
	Kauyonan Community Chapel	-	1	Minor cracks on the wall

Sources: OCD X and DOH