RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BALILI IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Balili on October 18, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 1, 2 and 3
- Purok 4
- Purok 5 and 8

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Balili

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 1, 2 and 3	Low	- Observe for presence of mass movement
2	Purok 4 (N9°40'58.7", E124°20'13.4")	Moderate	- Monitor progress of mass movement (terracetes) and report to the MGB/municipal authorities - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities
3	Purok 5 and 8	Moderate	- Observe presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BOCTOL IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Boctol on October 15 and 18, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 4
- Purok 7 – 4 sites
- Purok 6

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Boctol

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 4 (N9°42'51.8", E124°21'26.6")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway - Provide slope protection measure
2	Purok 7 (N9°43'25.1, E124°21'16.1" to N9°43'27.2, E124°21'18.5")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway - Provide slope protection measure
3	Purok 7 (N9°43'18.2, E124°21'24.7" to N9°43'19.9, E124°21'22.4")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway - Provide slope protection measure
4	Purok 7 (N9°43'30.4, E124°21'19.8" to N9°43'37.0, E124°21'16.3")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Develop early warning system (e.g. signages) along the highway - Provide slope protection measure
5	Purok 7 (Bon-onon) (N9°43'27.7", E124°21'14.6")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Develop early warning system (e.g. signages) along the highway - Provide slope protection measure and proper drainage system within the affected slope - Relocate residents below the road level where landslide occur
6	Purok 6 (N9°43'09.8", E124°21'30.7")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway - Regular clearing of loose materials from the slope

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BUNGA ILAYA IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Bunga Ilaya on October 20, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 6 and 7

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Bunga Ilaya

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 6 and 7	Moderate	- Observe presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BUNGA MAR IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Bunga Mar on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 6 and 7

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Bunga Mar

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 6 and 7	Low	- Observe for presence of mass movement

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY BUYOG IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Jagna on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following area:

- Purok 3

The assessed area was rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the result of the assessment of the covered area:

Table 1. Results of Landslide Assessment in Barangay Buyog

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 3 (N9°40'20.2", E124°19'49.7")	Moderate	- Monitor for presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CABUNGA-AN IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Jagna on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following area:

- Purok 3

The assessed area was rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the result of the assessment of the covered area:

Table 1. Results of Landslide Assessment in Barangay Cabunga-an

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 3	Moderate	- Monitor for presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CALABACITA IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Calabacita on October 17 and 19, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 7
- Purok 8
- Purok 9

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Calabacita

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 7 (N9°43'31.3", E124°17'53.2")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway
2	Purok 8 (N9°43'59.5", E124°18'05.2")	Moderate	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Provision of riprap on weak "toe" section with appropriate drains
3	Purok 9 (N9°44'06.6", E124°18'08.3")	Moderate	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Develop early warning system (e.g. signages) along the highway before the rockfall hazard zone - Removal of overhanging rocks from the slope

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CAN-IPOL IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Can-ipol on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 4
- Purok 5

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Can-ipol

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 4 (N9°41'11.9", E124°21'47.6")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Provide early warning signages within the landslide zone
2	Purok 5 (N9°41'15.5", E124°41'45.0")	Moderate	- Observe presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CANJULAO IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Canjulao on October 20, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following area:

- Purok 9

The assessed area was rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the result of the assessment of the covered area:

Table 1. Results of Landslide Assessment in Barangay Canjulao

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 9 (N9°38'34.2", E124°20'51.4")	Moderate	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY CANTUYOC IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Cantuyoc on October 20, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 1
- Purok 5
- Purok 6

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Cantuyoc

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°39'36.1", E124°20'36.1")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the road
2	Purok 5 (N9°39'39.1", E124°20'09.6")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the road
3	Purok 6 (N9°39'42.6", E124°20'29.3")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Provision of riprap with weep holes on weak slope and proper drainage line (concrete canal from top of slope towards the creek downslope

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY FARAON IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Faraon on October 21, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following area:

- Purok 2

The assessed area was rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the result of the assessment of the covered area:

Table 1. Results of Landslide Assessment in Barangay Faraon

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 2 (N9°38'21.2", E124°20'25.3")	Moderate	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Provide slope protection measure e.g. riprap with weep holes

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY KINAGBAAN IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Kinagbaan on October 20, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 2, Sitio Tinagbasan
- Sitio Catisay

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Kinagbaan

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 2 (N9°38'34.2", E124°20'51.4")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the road - Conduct regular clearing of debris on the road
2	Sitio Catisay (N9°38'46.9", E124°20'35.4")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Regular monitoring and clearing of debris on the road

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY LONOY IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Lonoy on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 1
- Purok 7

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Lonoy

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°42'12", E124°22'14.9")	High	- Observe for and/or monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Monitor debris accumulation and if possible clear the debris along the river bank
2	Purok 7 (N9°42'12", E124°22'14.9")	Moderate	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY MALBOG IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Malbog on October 18 and 19, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 5
- Purok 6
- Purok 8, 3 sites

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Malbog

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 5 (N9°39'56.2", E124°21'03")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Immediate evacuation of residents upslope if mass movement progresses at a faster rate. - Provide slope protection measure with appropriate drain or weep holes, provide proper drainage along the slope
2	Purok 6 (N9°39'56.7", E124°21'02.2")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Clear road of landslide debris and provide warning signs before the affected area.
3	Purok 8 (N9°40'00", E124°20'59.4")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities
4	Purok 8 (N9°39'54.0", E124°20'51.5")	Moderate	- Observe for and/or monitor presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks)
5	Purok 8 (N9°39'53.7", E124°21'02.0")	Moderate	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Provide riprap on road section with weak slope

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY MAYANA IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Mayana on October 15 and 17, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 2
- Purok 9
- Purok 7
- Purok 10
- Balikbayan

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Mayana

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 9 (N9°44'17.4", E124°19'38.8")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway - Clearing of debris from the road
2	Purok 2 (N9°43'47.1", E124°20'59.9")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway
2	Purok 7 (N9°44'36.6", E124°20'26.4")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway - Provision of riprap on weak "toe" section with appropriate drains
3	Purok 10 (N9°44'22.3", E124°20'14.6")	High	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Develop early warning system (e.g. signages) along the highway before the rockfall hazard zone - Removal of overhanging rocks from the slope
4	Balikbayan (N9°44'17.4", E124°19'38.8")	High	- Observe recurrence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY NAATANG IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Jagna on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following area:

- Purok 2

The assessed area was rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the result of the assessment of the covered area:

Table 1. Results of Landslide Assessment in Barangay Naatang

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 2 (N9°40'14.2", E124°23'49")	High	- Monitor for progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY NAUSOK IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Nausok on October 22, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 1
- Purok 3

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Nausok

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°39'14.9", E124°23'09.3")	Moderate	- Observe for and/or monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Rockfall hazard area, provide warning signs for motorist
2	Purok 3 Along the coastal road	Moderate	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Rockfall hazard area, provide warning signs for motorist

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY ODIONG IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Jagna on October 14, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following area:

- Purok 1

The assessed area was rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the result of the assessment of the covered area:

Table 1. Results of Landslide Assessment in Barangay Odiong

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°41'27.3", E124°21'25.2")	Low	- Monitor for presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities

It should be noted that this susceptibility rating was arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.

RESULTS OF THE MGB-7 LANDSLIDE ASSESSMENT AND MAPPING (1:10,000 SCALE) OF BARANGAY TUBOD MONTE IN JAGNA, BOHOL

The Mines and Geosciences Bureau-Department of Environment and Natural Resources Region VII (MGB-DENR VII) conducted a landslide assessment and mapping (1:10,000 scale) of areas within Barangay Tubod Monte on October 14 and 15, 2011. The assessment is in line with the government's efforts aimed at reducing, if not, totally mitigating the destructive effects and impacts of natural hazards on the populace. Comprising the geohazard assessment team are Maria Elena S. Lupo and Josephine T. Aleta, Senior Geologists from MGB-7.

The MGB-7 particularly covered the following areas:

- Purok 1
- Purok 7
- Purok 3
- Purok 4
- Purok 2

The assessed areas were rated as having low, moderate, high or very high (critical) susceptibility to landslide. The landslide susceptibility rating parameters are as follows:

Very high: Areas usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High: Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides.

Moderate: Areas with moderately steep slopes. Soil creep and other indications for possible landslide occurrence are present.

Low: Gently sloping areas with no identified landslides.

When appropriate, the barangay official/s was/were presented with a *Landslide Threat Advisory.* This advisory informs them of their area's susceptibility to landslides and contains the corresponding recommendations.

Below summarizes the results of the assessment of the covered areas:

Table 1. Results of Landslide Assessment in Barangay Tubod Monte

	Location	Landslide Susceptibility Rating	Remarks/ Recommendations
1	Purok 1 (N9°40'03.7", E124°21'46.3")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway - Conduct regular clearing of debris and reinforcement of slope protection (riprap) downslope. Provide gabion mattress or retaining wall on weak slopes.
2	Purok 7 (N9°40'42.4", E124°21'39.9")	Very high/critical	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Observe for saturated ground or seeps and sunken or displaced road surfaces and report to the MGB/municipal authorities - Develop early warning system (e.g. signages) along the highway - Regular monitoring and clearing of debris on the road
3	Purok 3 (N9°40'22.0", E124°21'38.5")	high	- Monitor progress of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Develop early warning system (e.g. signages) along the highway - Provide slope protection measure
3	Purok 4 (N9°40'27.5", E124°21'39.0")	Moderate	- Monitor presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Develop early warning system (e.g. signages) along the highway before the rockfall hazard zone
4	Purok 2 (N9°40'06.2", E124°21'52.2")	Moderate	- Monitor presence of mass movement and report to the MGB/municipal authorities (e.g., landslides, tension cracks) - Develop early warning system (e.g. signages) along the highway before the rockfall hazard zone

It should be noted that these susceptibility ratings were arrived at as of this field assessment. However, the rating could advance (e.g., from low to moderate, and moderate to high). Hence, the MGB constantly recommends strict and continuous monitoring by the barangays.