Republic of the Philippines Province of Bohol Municipality of Jagna

BARANGAY MAYANA LANDSLIDE REPORT

JAGNA - Municipal Disaster Coordinating Council

A. Profile of Barangay Mayana

Barangay Mayana is and upland barangay situated at the northern part of Jagna, about 17 km from the town proper with a land area of 420 hectares.

It is the 2nd most populated among the 33 component barangays of Jagna comprising of 10 sitios/puroks with 404 households and a household population of 2,135.

The **barangay** is one of the four (4) barangays of Jagna which has been declared as watershed areas under the Alejawan-Cansuhay-Anibongan River Watershed Forest Reserve. It is transected by a national road (about 36 kms) which connects the municipalities of Jagna and Sierra-Bullones (the latter which is just a town away from the renowned Chocolate Hills of the Municipality of Carmen).

Brgy Mayana has an **elevation of 819 meters above sea level** and considered one of the highest peak of Bohol. Because of its cool climate, it is considered a **producer barangay especially vegetables and flowers**. It also produces the bongan variety of banana for export under the partnership of the Mayana Small Farmers Association (MASFA) and the Peoples' Fair Trade Assistance (PFTAC).

It is the site of the Narra Tree (which measures 3.2. in diameter and 30 meters in height), the 2nd Place Winner in the National Search for Centennial Tree.

B. Current Condition of the Active Landslide

From the July 11, 2005 landslide incident that happened in Sitio Balikbayan which immediately damaged 10 houses and about 16 farmlots, the landslide debris has continued to move. On July 14, the cracks had stretched to 1 km , approximately 50 meters before the national road

The landslide debris has continued to move towards two more sitios/puroks (Sitio Ilaud) and has damaged more houses and agricultural crops as well as the Jagna-SB National Rd and the barangay road connecting Sitio Balikbayan and Sitio Ilaud.

The current condition is characterized by the following features:

- 1. Coverage of the damage is about 160 hectares or 38 % of the land area of the barangay;
- 2. The distance of the affected Jagna-SB National Road is about 800 meters while that of the Balikbayan-Ilaud Barangay Road is about 200 meters;
- 3. The downward movement of the cracks from the national road has stretched to about a kilometer and is only 100 meters far from the river that serves as the municipal boundary of Jagna and Duero;
- 4. There are visible landmass growth along the river path;
- 5. The landmass growth along the national road is about 20 meters in height; and
- 6. The solar dryer has already been damaged and new cracks are seen along the national road heading towards the Catholic Chapel in Sitio Ilaud.
- C. Affected Families and Estimates of Damages (as of August 6, 2005)
 - **1.** There are **63 families (257 HH population)** with damaged house structures
 - > **54 HH** from the above figure, have also agri crop/farmlot damages
 - > 9 HH have house structure damages only
 - 2. There are 103 families (269 HH population) with agricultural crop damages
 - > the 54 HH are already included in the above figure excluding their HH population
 - > there are 49 HH with agricultural crop damages only
 - 3. The affected households (both with house and agricultural crop damages) is about 112 or 28% of the HH in the barangay and 526 individuals or about 25% of the HH population.

4. Estimated Cost of Damages (as of August 6, 2005)

Houses Php 4,930,807 Agricultural Crops (partial) 5,148,983 Infrastructure

Jagna-SB National RoadPhp 4,000,000Brgy Road250,000Water Reservoir140,000Solar Dryer50,000

Solar Dryer 50,000 4,440,000

Grand Total Php 14,519,790

D. Findings and Recommendations of the MGB, DENR R7 (c/o Technical Report)

- 1. There is an indication of a possible presence of a fault of which movement of this inferred fault in the past could have caused the development of fractures and joints in the limestone and underlying rock formation;
- **2.** Observed fracturing and minor rock falls on the limestone in the past indicate that the site has undergone minor slope or ground movement;
- **3.** The earthquake which occurred in March 31, 2005 may have contributed to the instability of the rock formation
- **4.** Causes of the landslide
 - a. presence of cavities within the limestone formation
 - b. periodic lowering (caused by shrinkage and compaction) and increase in ground level (buoyant effect on rocks) which affected stability of the formation

The landslide is active and could affect houses along its east directed movement

5. Recommendations

- a. People should be restricted from venturing into the affected zone
- b. Houses near the periphery of the affected area should be relocated immediately as well as those along the path of the landslide debris
- c. Regular monitoring of the advance of the landslide debris
- d. Residents should be vigilant during the rainy period since this could trigger the debris to move faster and should report the presence of new new cracks/fractures

E. Relief and Rehabilitation

1. Relief Operation

- > cash assistance to families with damaged houses in the amount of Php 5000 each from LGU –Province and another Php 5000 from LGU- Jagna
- > food assistance for affected families (both damaged houses and agri crops from the LGUs (Jagna/ Province), private and civic organizations and individuals
- > there are pledges for cash and assistance in kind from different agencies and entities
- > the food assistance is distributed weekly for a period of 3 months
- > an evacuation center has been constructed in the barangay

2. Rehabilitation Plans

> the LGU intents to purchase lots as relocation sites and while the areas and lot owners have been identified and negotiations will commence any time, the location needs to be inspected and evaluated

F. Status of Assistance

LGU/Agency	Cash	In Kind	TOTAL
1. LGU-Province	Php 235,000	Php 40, 600	Php 275,000
2. LGU- Jagna	307,000	40,000	347,000
3. Other Govt Agencies		10,000	10,000
4. Organizations/ Groups	20,000	30,000	50,000
5. Individuals	21,400	15,000	36,400
Total	Php 583,400	Php 135,600	Php 718,400

G. ISSUES AND CONCERNS

- 1. Continuous movement of the landslide debris has affected the ff:
 - a. implementation of the rehabilitation plans
 - b. closure of the Jagna-SB National Road making it difficult and very risky for passers-by
 - c. increasing number of dislocated households (economic and shelter issues)
- 2. Thorough understanding of the phenomenon particularly the uncertainty of direction of the movement of the landslide debris which is important in planning;
- 3. The position of the Bohol Dep-Ed on the real and present danger of the students' regular/normal school attendance as they have to pass daily through the restricted area; and
- 4. The need for a team of experts fully equipped with the required geological equipments to further evaluate the current landslide condition

AN APPEAL TO THE NDCC

The Municipality of Jagna appeals to the NDCC:

- 1. To urgently send a team of experts to evaluate the landslide phenomenon in our municipality as it remains active for almost a month now. It has not only resulted to physical dislocation of homes and economic activities but also has been mentally exhausting. A second opinion initiated from your end will be of great assistance to firm up the LGU's plan for rehabilitation; and
- 2. To request financial assistance for
 - a) water reservoir construction
 - b) road re-construction especially the Jagna- SB National Road
 - c) materials for house construction
 - d) economic/livelihood programs for the damages of agricultural crops

Submitted by:

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Noted:

EXUPERIO C. LLOREN MDCC – CHAIRMAN