Utilizing CBMS for Evidenced-Based Local Legislation to Foster Disaster Preparedness and Building Resilient Communities: Experience from Tabaco City

HON. RAUL ROI B. BOREJON
CITY COUNCILOR
TABACO CITY
MARCH 13 – 15, 2019
NOVOTEL, QUEZON CITY
A center of excellence in education, trade and tourism in Bicol with God-centered, healthy, disaster- resilient and empowered people living in a world-class, well-designed and balanced environment with progressive and globally competitive economy led by gender sensitive and competent leaders committed to good governance and sustainable development.
City Ordinance No. 012-2013

AN ORDINANCE INSTITUTIONALIZING THE COMMUNITY BASED-MONITORING SYSTEM (CBMS) AS A TOOL FOR LOCALIZING AND MONITORING THE ATTAINMENT OF THE MILLENNIUM DEVELOPMENTS GOAL (MDGS) AND BASES FOR PROGRAMS AND PROJECTS OF THE CITY AND THE BARANGAYS IN TABACO CITY.
General Uses of CBMS Data in the LGU

➢ To enrich the quality of local governance by providing a sound basis for planning of programs, budgeting and formulation of:

- Executive Legislative Agenda
- Updating of Comprehensive Land Use Plan
- Comprehensive Development Plan
- Disaster Risk Reduction and Management Plan
- Local Climate Change Action Plan
- Local Shelter Plan
- Gender & Development Plan
- Child Protection Plan
- Comprehensive Local Juvenile Justice Plan
General Uses of CBMS Data in the LGU

Nutrition Action Plan
Updating Socio Economic Profile
Identifying PPAs for Annual Investment Plan
Approval of 20% Barangay Development Plan
Updating of Barangay Socio Economic Profile
Other LGU initiated social, economic and protective services and programs

➢ Timeline and Strategies
   Year Round for program sustainability and mainstreaming Strategies
   Enactment of Ordinances, Adoption of Resolutions, Issuance of Executive Order
## CBMS Indicator to Address SDG 11 & 13

### SDG 11 Sustainable Cities And Communities
### SDG 13 Climate Action

<table>
<thead>
<tr>
<th>CBMS Data Results on Housing &amp; Disaster Risk</th>
<th>POPULATION Proportion</th>
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<tbody>
<tr>
<td></td>
<td>2008</td>
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<tr>
<td>Population who are informal settlers</td>
<td>7.5</td>
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<tr>
<td>Population who are living in makeshift</td>
<td>6.1</td>
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<tr>
<td>housing</td>
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<td>Population living in inadequate housing</td>
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<tr>
<td>conditions</td>
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<td>Population in high risk areas</td>
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<tr>
<td>Population living within the legal easement</td>
<td>9.7</td>
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<td>Population living within the 6KM Permanent</td>
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<tr>
<td>Danger Zone of Mayon Volcano</td>
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Ordinance No. 014-2013
AN ORDINANCE ADOPTING A CODE OF POLICY IN THE MANAGEMENT OF THE ESTABLISHED RELOCATION SITES AND IMPLEMENTATION OF THE SOCIALIZED HOUSING PROGRAM OF THE CITY OF TABACO.

Ordinance No. 009 - 2015
AN ORDINANCE ESTABLISHING THE URBAN AND RURAL AFFAIRS (URPAO) OF THE CITY GOVERNMENT OF TABACO AND PROVIDING FUNDS. THEREOF

Sanggunian Internal Resolution No. 061 - 2011
A RESOLUTION AUTHORIZING HONORABLE CIELO KRISEL LAGMAN – LUISTRO, CITY MAYOR OF TABACO TO ENTER INTO A CONTRACT OF SALE WITH REFARD TO THE ACQUISITION OF LOT NO. 4026-C CONSISTING OF 21, 155.74 SQUARE METERS, SUTYATED AT BARANGAY SAN VICENTE, TABACO CITY IN FURTHERANCE TO THE RELOCATION, HOUSING AND LAND BANKING PROGRAM OF THE CITY GOVERNMENT.

Sanggunian Internal Resolution No. 052, Series of 2013
RESOLUTION AUTHORIZING HONORABLE CIELO KRISEL LAGMAN-LUISTRO, CITY MAYOR TO ENTER INTO A MEMORANDUM OF AGREEMENT (MOA) WITH THE NATIONAL HOUSING AUTHORITY (NHA) RELATIVE TO THE IMPLEMENTATION OF THE SAN VICENTE RESETTLEMENT PROJECT.

Sanggunian Internal Resolution No. 063, Series of 2013
A RESOLUTION ADOPTING THE DEPARTMENT OF SOCIAL WELFARE AND DEVELOPMENT (DSWD) CORE SHELTER PROGRAM GUIDELINES IN THE IMPLEMENTATION OF TABACO CITY’S RESETTLEMENT AND HOUSING PROGRAM.

Sanggunian Internal Resolution No. 276-2017
A RESOLUTION AUTHORIZING THE CITY MAYOR, HON. KRISEL LAGMAN-LUISTRO, TO ENTER INTO THE SIGN, FOR AND IN BEHALF OF THE CITY GOVERNMENT OF TABACO, A MEMORANDUM OF AGREEMENT (MOA) WITH THE NATIONAL HOUSING AUTHORITY (NHA) RELATIVE TO THE PAG-ASA VILLAGE CORE SHELTER / RESETTLEMENT SITE AT BARANGAY SALVACION, TABACO CITY.
### LGU Initiated Interventions

<table>
<thead>
<tr>
<th>Housing Programs</th>
<th>Number of Relocation Sites</th>
<th>Total area</th>
<th>Total Home Lots</th>
<th>Total Occupants /Families</th>
<th>Remaining Home Lots</th>
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<td>2014</td>
<td>8</td>
<td>13.654 has</td>
<td>1,259</td>
<td>668</td>
<td>591</td>
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<td>2016</td>
<td>10</td>
<td>17.25 has</td>
<td>1,625</td>
<td>918</td>
<td>707</td>
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<td>2018</td>
<td>12</td>
<td>37.25 has</td>
<td>3,536</td>
<td>929</td>
<td>2607</td>
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**Key Features**

- Formulation of URPAO code of policy - City Ordinance No. 014-2013
- Reorganization of the City Urban Development and Housing Board - Executive Order No. 027, Series of 2016 per City Ordinance

**Objectives**

- To envision the City with Tenable, Adequate, Better, Affordable, Convenient, and Organized (TABACO) with improved quality of life through the City’s Socialized Housing and Resettlement Programs.

**Target Beneficiaries**

- Informal Settlers
- Informal Settlers in High risk Areas
- Living in makeshift Housing
- Living in inadequate housing conditions
### Expected Outcomes

- **a.** Focusing on socialized housing and resettlement for the City’s underprivileged constituents and informal settlers (ISFs) and ensure sustainable, through decent, disaster-resilient development, permanent facilities and utilities, and continuous access to social services and economic opportunities.

- **b.** Provision of home lots and housing units, qualified beneficiaries in the relocation site of Tabaco City

### Specific CBMS Data Use on Housing and Tenurial Status

1. Landbanking
2. Relocation / Resettlement Sites
3. Housing Programs (Adopt A Home, Core Shelter)
On-Going Development of Pag-asa Village

Adopt-A-Home Program
Existing Pagkamoot Village II

- Area: 2.1 Hectares
- 216 Homelots
- Core Shelter Program
Proposed Tabaco Housing Project

Floor Plan

Perspective
## CITY DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL
### TABACO CITY
#### DISASTER RESPONSE, OPERATIONS, MONITORING AND INFORMATION CENTER
##### PROFILE OF EVACUEES INSIDE EVACUATION CENTER

As of: February 25, 2018

<table>
<thead>
<tr>
<th>NAME OF EVACUATION CENTER</th>
<th>PLACE OF ORIGIN</th>
<th>NUMBER OF ROOM OCCUPIED</th>
<th>NUMBER OF FAMILIES</th>
<th>NUMBER OF PERSONS</th>
<th>NUMBER OF PERSONS</th>
<th>NUMBER OF PERSONS</th>
<th>NUMBER OF PERSONS</th>
<th>NUMBER OF PERSONS</th>
<th>NUMBER OF PERSONS</th>
<th>NUMBER OF PERSONS</th>
<th>NUMBER OF PERSONS</th>
<th>NUMBER OF PERSONS</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>IN 0-11 MONS</td>
<td>1-3 Y/O</td>
<td>4-5 Y/O</td>
<td>6-12 Y/O</td>
<td>13-19 Y/O</td>
<td>20-59 Y/O</td>
<td>60 Y/O AND ABOVE</td>
<td>TOTAL</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>F</td>
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<td>M</td>
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<td>P-7 OSON, TABACO CITY</td>
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<td>250</td>
<td>956</td>
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<td>23</td>
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<td>91</td>
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<td>7</td>
<td>17</td>
<td>21</td>
<td>18</td>
<td>29</td>
<td>60</td>
<td>86</td>
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<td>23</td>
<td>9</td>
<td>15</td>
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<td>44</td>
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<td></td>
<td></td>
<td></td>
<td>112</td>
<td>1320</td>
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<td>65</td>
<td>193</td>
<td>154</td>
<td>127</td>
<td>150</td>
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</table>
## Profile of Evacuees Inside Evacuation Center

**As of: February 25, 2018**

### Table: Number of Persons by Age Group and Gender

<table>
<thead>
<tr>
<th>Name of Evacuation Center</th>
<th>Place of Origin</th>
<th>Number of Room Occupied</th>
<th>Number of Families</th>
<th>Number of Persons</th>
<th>Number of Infant 0-11 M/0</th>
<th>Number of Toddler 1-3 Y/O M/F</th>
<th>Number of Preschooler 4-5 Y/O M/F</th>
<th>Number of School Age 6-12 Y/O M/F</th>
<th>Number of Teen Age 13-19 Y/O M/F</th>
<th>Number of Adult 20-59 Y/O M/F</th>
<th>Number of Old 60 Y/O and Above M/F</th>
<th>Total M/F</th>
<th>Grand Total</th>
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<tbody>
<tr>
<td><strong>TABACO National High School</strong></td>
<td><strong>NAGSIPIT, MARIROC, TABACO CITY</strong></td>
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<td>336</td>
<td>1,381</td>
<td>20</td>
<td>25</td>
<td>41</td>
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<td>45</td>
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<td>126</td>
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<td><strong>SAN ISIDRO, TABACO CITY</strong></td>
<td>8</td>
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<td>268</td>
<td>6</td>
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<td>24</td>
<td>22</td>
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<td><strong>BONOT, TABACO CITY</strong></td>
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<td>54</td>
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<td>89</td>
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<td>2360</td>
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<td>90</td>
<td>86</td>
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<td>59</td>
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<td>206</td>
<td>193</td>
<td>210</td>
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<tr>
<td><strong>GRAND TOTAL</strong></td>
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<td>1904</td>
<td>7537</td>
<td>195</td>
<td>523</td>
<td>409</td>
<td>1468</td>
<td>1347</td>
<td>3088</td>
<td>506</td>
<td>7536</td>
<td></td>
<td></td>
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</table>

### Summary

- **Total Number of Persons:** 7536
- **Total Number of Families:** 1904
- **Total Number of Rooms Occupied:** 2360
<table>
<thead>
<tr>
<th>NAME OF EVACUATION CENTER</th>
<th>PLACE OF ORIGIN</th>
<th>NUMBER OF FAMILIES WITH THE FOLLOWING MEMBERS</th>
<th>CIVIL STATUS</th>
<th>SOLO PARENT</th>
<th>NUMBER OF PWDs</th>
<th>NUMBER OF LACTATING MOTHER</th>
<th>NUMBER OF PREGNANT</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1-3 MEMBERS</td>
<td>4-5 MEMBERS</td>
<td>MORE THAN 6</td>
<td>CHILD</td>
<td>SINGLE</td>
<td>LIVE-IN</td>
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<tr>
<td>SAN ANTONIO NATIONAL HIGH SCHOOL</td>
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<td><strong>493</strong></td>
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<td>INDICATORS</td>
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<tr>
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<td>MORE THAN 6</td>
<td>CHILD</td>
<td>SINGLE</td>
<td>LIVE-IN</td>
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<td><strong>1007</strong></td>
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<td><strong>355</strong></td>
<td><strong>3047</strong></td>
<td><strong>1445</strong></td>
<td><strong>857</strong></td>
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## INVENTORY OF POPULATION AT RISK OF BRGY BANTAYAN TO DIFFERENT HAZARDS WITH SUSCEPTABILITY CATEGORIZATION

### CBMS DATA

### Risk Assessment Process – Household Tagging

### Household Tagging – Household Number – Number of HH Exposed To Different Hazards

### Inventory of Population at Risk with Percentage

<table>
<thead>
<tr>
<th>PUROK</th>
<th>TOTAL POPULATION</th>
<th>FLOODING</th>
<th>LAHAR FLOW</th>
<th>LANDSLIDE</th>
<th>VOLCANIC ERUPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H %</td>
<td>M %</td>
<td>L %</td>
<td>H %</td>
</tr>
<tr>
<td>1</td>
<td>422</td>
<td>238</td>
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<td>476</td>
<td>26.969</td>
<td>212</td>
<td>12</td>
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### Hazard

- **FLOODING**
  - H: 238, M: 56, L: 35
- **LAHAR FLOW**
  - H: 238, M: 56, L: 35
- **LANDSLIDE**
  - H: 0, M: 0, L: 0
- **VOLCANIC ERUPTION**
  - H: 422, M: 0, L: 0

### Number of HH Exposed To Different Hazards

- **Total Population**: 1765
- **Hazard Exposure**
  - Flooding: 476
  - Lahar Flow: 363
  - Landslide: 66
  - Volcanic Eruption: 1230
City Ordinance No. 010 - 2014

AN ORDINANCE ESTABLISHING THE TABACO CITY DISASTER RISK REDUCTION AND MANAGEMENT OFFICE AND PROVIDING FUNDS THEREOF.

City Ordinance No. 006-2016

AN ORDINANCE ESTABLISHING THE TABACO CITY CLIMATE CHANGE ADAPTATION AND MITIGATION PROGRAM.

City Ordinance No. 018-2016

AN ORDINANCE IMPLEMENTING FORCED EVACUATION IN THE TIME OF DISASTER AND/OR A STATE OF EMERGENCY HAS BEEN DECLARED IN THE CITY AND DANGER OF LOSS OF LIVES BECOMES IMMINENT, PROVIDING PENALTIES THEREOF AND FOR OTHER PURPOSES.

Sanggunian Internal Resolution No. 025-2016

RESOLUTION REQUESTING THE CITY MAYOR, HONORABLE CIELO KRISEL LAGMAN-LUISTRO TO DIRECT THE COMMUNITY BASED MONITORING SYSTEM (CBMS) OFFICE TO INCLUDE DISASTER RELATED QUESTIONS IN THE SURVEY QUESTIONNAIRE FOR THE YEAR 2016 CENSUS.

Sanggunian Internal Resolution No. 028-2017

Sanggunian Internal Resolution No. 404 - 2017


Resolution No. 015 - 2018

RESOLUTION REQUESTING THE DEPARTMENT OF NATIONAL DEFENSE (DND) THROUGH SECRETARY DELFIN N. LORENZANA TO ALLOCATE FUND FOR THE CONSTRUCTION OF PERMANENT EVACUATION CENTERS AND FLOOD CONTROL PROJECTS AFFECTED BY MAYON VOLCANO ERUPTION AND SEVERAL TYPHOONS WHICH AFFECTED THE BARANGAYS OF TABACO

Resolution No. 319 - 2018

A RESOLUTION AUTHORIZING HER HONOR, CITY MAYOR CIELO KRISEL LAGMAN – LIUSTRO, FOR AND IN BEHALF OF THE CITY GOVERNMENT OF TABACO, TO NEGOTIATE WITH THE OWNER OF LOT NO. 6070, A PARCEL OF LAND REGISTERED UNDER THE NAME OF AURELIO CAMPOSANO IN BARANGAY TABIGUIAN, TABACO CITY, ALBAY, IN FURTHERANCE TO THE ACQUISITION OF THE SAID PROPERTY BY THE CITY GOVERNMENT OF TABACO FOR THE PURPOSE OF ESTABLISHING A PERMANENT EVACUATION CENTER
LGU Best Practice

**SDG 13 Climate Action**

Creation of the City Disaster Risk Reduction and Management Office thru City Ordinance No. 010-2014, “AN ORDINANCE ESTABLISHING THE TABACO CITY DISASTER RISK REDUCTION AND MANAGEMENT OFFICE AND PROVIDING FUNDS THEREOF”

**Key Features**

Risk Assessment

1. Household Hazard Tagging according to the degree of susceptibility;
2. Construction of LGU-Owned Safe Evacuation Facility to every Barangay in Tabaco City (RA-10821)
3. Local Ordinance on Pre-emptive and Forced Evacuation

**Objectives**

1. To identify every household living in High, Moderate and Low Risk susceptibility to hazards and to have an updated population at risk data in Tabaco City;
2. To provide temporary evacuation shelter for the residents during calamities;
3. To safeguard all the residents exposed to Hazards.

**Expected Outcomes**

1. a. To identify the degree of exposure of the residents living in the hazard areas;
   b. To have a community based and scientific DRR assessment mapping, analysis and monitoring;
c. To identify strategic locations for the establishment of Early Warning System (EWS);

d. To have an updated database on population at risk in Tabaco.

2. a. Presence of a multi-purpose facility in every barangay to be used not only as evacuation facility but for other purposes;

b. The exposed residents shall have a temporary shelter safe from hazard;

3. a. All residents exposed to hazards are transferred to safe evacuation facility;

b. Attainment of Zero Casualty thrust of the government.

Resource Requirements

1. a. Updated Hazard Map

b. Field Personnel for household tagging;

c. Tagging stickers (Red for High Risk, Orange for Moderate Risk and a Yellow for Low risk);

2. At least One Thousand Square Meters (1,000.00 sq. m.) parcel of land, free from any hazards, as counterpart of the barangay in order to avail of the P8,000,000.00 allocated budget in the annual Local DRRM Fund of the City.

3. a. Risk Assessment data of the CDRRMO

b. Assistance from the PNP, BFP, PA and the Barangay Officials concerned.
LGU Best Practice

SDG 13 Climate Action

➢ Specific CBMS Data used

1. a. The Household number used in the CBMS Data is also the reference number of the Household entered in the Risk Tagging data;

   b. Upon tagging of Household, the CDRRMO will extract the necessary information from the CBMS to formulate a disaggregated data on population at risk;

2. Risk Assessment Data mainstreamed in the CBMS.

➢ Public - Private Partnership

1. Private landowner who is willing to donate parcels of lands for evacuation facility;

2. Other volunteer organizations and civil society groups willing to help during the execution of the pre-emptive and forced evacuation.
Lessons Learned and Ways Forward

CBMS served as a tool for legislation and policy formulation for planning and budgeting of programs, projects and activities implemented by the City Government and for updating of policies based on the data collected by the CBMS from the household level.

The CBMS in Tabaco City is not only a tool to assess poverty in a particular Barangay but also provide us with reliable household information base for tracking the population at risk that will serve as basis in the formulation of appropriate risk reduction programs and activities towards building sustainable and resilient communities.
RESOLUTION RESPECTFULLY REQUESTING HONORABLE CIELO KRISEL LAGMAN-LUISTRO, CITY MAYOR, TO INCLUDE IN HER PRIORITY PROJECTS, IN ASSUANCE OF COMMUNITY BASED MONITORING SYSTEM (CBMS) IDENTIFICATION CARD (ID) TO THE HEAD OF HOUSEHOLDS AS A RESORT FOR OBTAINING VALID IDENTITY CARD AND PROVIDING FUND THERETO.
Evidence-Based Local Legislation is Effective Legislation

Thank You !!