**B Municipality of Calintaan, Province of Occidental Mindoro**

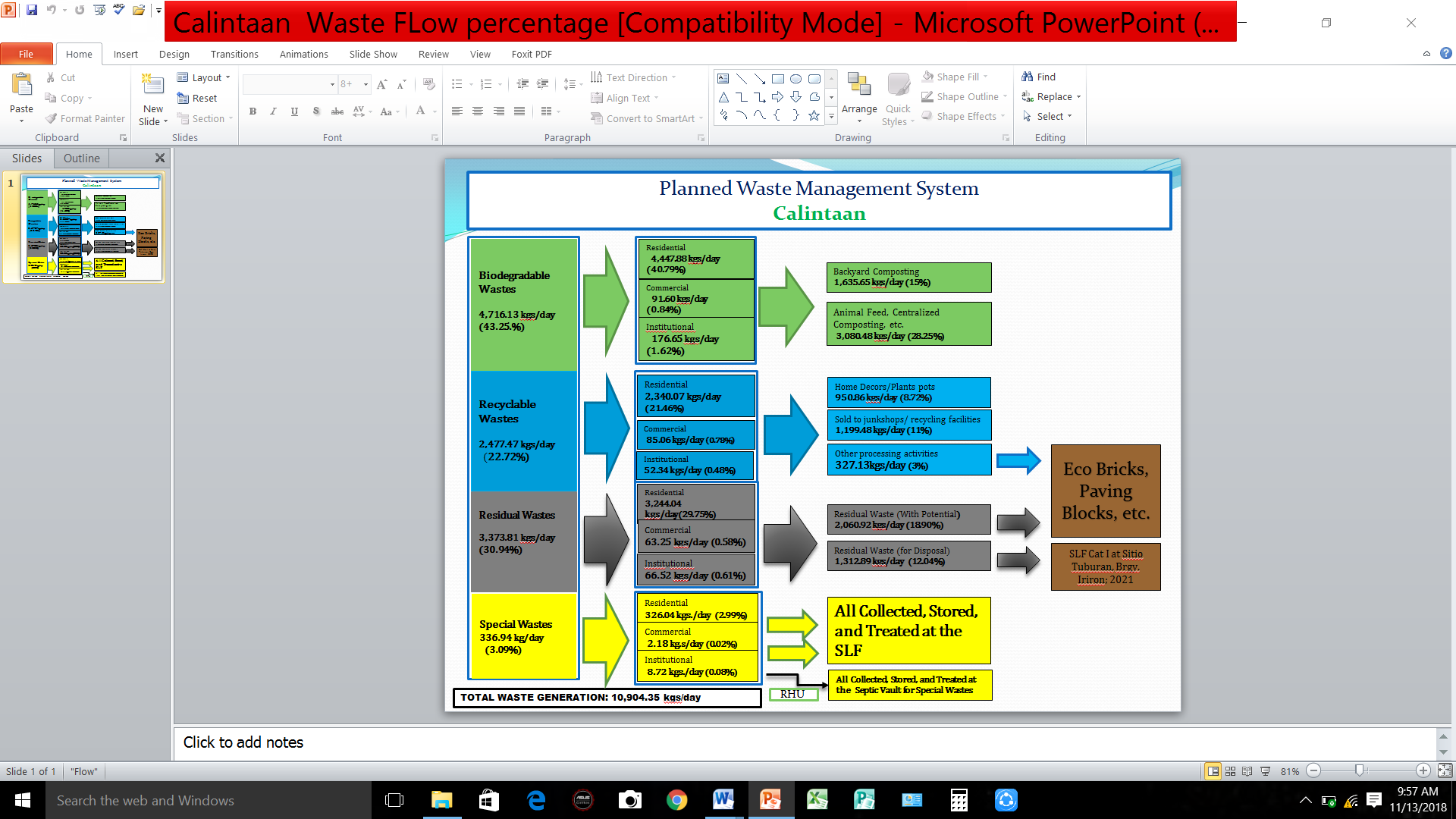
1. **General Information**

|  |  |  |  |
| --- | --- | --- | --- |
| Title:**Ten (10) Year Ecological Solid Waste Management Plan (2019 – 2028)** | | | |
| **Municipality of Calintaan**, Province of Occidental Mindoro | | Classification: **Third Class** | |
| Total Population:  **31, 222 (2019**)  **34,606 (2028)** | | Number of Barangays: **7**  **Urban – 1**  **Rural - 6** | |
| **SWM Information** | | | |
| **Indicator** | **Baseline** | | **10-Year Plan** |
| % of segregation at source | *50.00%* | | *100%* |
| % of segregated collection | *50.00%* | | *100%* |
| % of collection rate/service area | *50.00%* | | *100%* |
| % waste diversion rate | *56.00%* | | *84.86%* |
| With disposal facility (cap =m/yr or tpy) | 4,328.74 | | 1,650.47*kgs/day* |

1. **Strategies to achieve the 10-year plan targets with budgetary allocation per year for:**
2. **Establishment of Sanitary Landfill Category 1**
3. **Procurement of SWM equipment, facilities, and machineries**
4. **Positioning of Manpower Services**
5. **Strengthening/Intensification on waste segregation, reduction, diversion, and composting at source**
6. **Strict implementation of RA 9003 Prohibitions**
7. **SWM PPAs**
8. **Extended service areas for segregated collection**
9. **Operation and maintenance of SLF, SWM equipment, facilities, and machineries**

|  |  |
| --- | --- |
| **SWM Functional Element** | **Strategies** |
| 1. Establishment of Sanitary Landfill Category 1 | * Regular Operation and Maintenance of SLF * Employment of Care takers |
| B. Procurement of SWM Equipment, Facilities, and Machineries | * **Equipment**:   + - Municipal garbage truck/s for Barangay residual and special waste collection     - Barangay Garbage trucks for Barangay compostable and residual wastes collection;     - Top-down tricycles for Barangay recyclable and special wastes collection. * **Facilities**:   + - Establishment of MENRO Office;     - Temporary Residual Containment Area (TRCA)     - Production/Processing Area     - Additional vault for Special Wastes,     - Barangay and School MRFs     - Recyclable Depots at the conspicuous places in the town and at the Barangay;     - Pick – up Point Areas;     - Composting areas. * **Machineries**:   + - All Kinds of Necessary Shredding Machines;     - Baling Machines; and     - Extruding Machines. |
| C. Positioning of Manpower services | * Presence of MENRO Office with plantilla/permanent positions for MENRO and Staff * Employment of SWM manpower services detailed at:   + - MENRO Office,     - SLF/Central MRF/TRCA/Central Composting Facility,     - Production/Processing Area, and     - Municipal and Barangay MRFs. |
| D. Strengthening/  Intensification on Waste Segregation, Reduction, Composting, and Diversion at Source | 1. Strengthening of functional MSWMB & BSWMC & Purok/Sitio leaders on SWM plans and programs 2. Massive and intensive environmental Information, Education and Communication campaigns (Barangay Assembly, Fora, Trainings, Symposia, House to House campaigns) 3. Mandatory to all households, offices, schools, stores, shops:    * + **Waste Segregation at Source**        - *Provision of 4 types of segregation bins with sacks and label*        - *“No segregation, no collection” policy*          * **Waste Reduction at Source**        - *No To Non-Recyclable Plastic Policy*        - *Single Packaging System*        - *BaHa (Basket Habit)*        - *BOBES (Bring Own Basket Every Shopping)*          * **Waste Composting at Source**        - *Presence of composting pit/s or bins at the household’s compound*          * **Waste Diversion at Source**        - *Presence of crafts at home, offices, stores, etc.*        - *Diverted pots for flowering plants and backyard gardening*  * Establishment of linkages between and among LGU Offices with related functions: MAO, MEO, etc. |
| E. Strict implementation of RA 9003 Prohibitions | * Mandatory monitoring of BSWMC/BSWMP/SL for :   + - Waste Burning,     - Illegal disposals on all areas: closed disposal facility, rivers, canal, coastlines, vacant lots, etc.     - Littering on: thoroughfares, streets, store vicinity, Municipal & Barangay compound, markets, etc.     - Squatting and entrance of children at the Closed Disposal Facility     - Use of disposable plastics on all occasions. |
| F. SWM PPAs | 1. Implementation of **Project CALINTAAN** (**CAL**l for **INT**erdependent **A**ction against w**A**ste **N**onchalance) and **Project ECL** (**E**mpowering **C**ommunity **L**eadership) e.g *BaHa, BOBES* 2. Execution of Municipal and Barangay Ordinances 3. Provision of segregation bins for Barangays 4. Conduct of municipal-wide competition for SWM e.g. Search for Cleanest Barangay, Best School SWM Implementers, etc. 5. Establishment and operation of School MRFs and Gardening 6. Barangay Acquisition of shredding machines for compostable to seven barangays and multi-shredding and baling machine for residuals 7. Establishment, operation and maintenance of Central and Barangay MRFs 8. Establishment of marketing opportunities for waste by-products, organic fertilizers and recyclable products. 9. Organization of the SWM Monitoring and Evaluation Committee 10. Maintenance and beautification of Municipal Eco-Park/closed disposal site 11. Segregation bins for all PUVs 12. Creation of MENRO Hotline for reporting |
| G. Extended service areas for segregated collection | * All puroks and sitios in every barangay shall have a schedule for segregated waste collection date and time; * Provision of pick-up point areas in crowded areas and sitios |
| H. Operation and maintenance of SLF, SWM equipment, facilities, machineries | * For the 10 year planning period a total of: (details are given in annexes that follow:  |  |  | | --- | --- | | Particulars | TOTAL | | Investment Cost | **41,338,000** | | Annual Cost (PS & MOOE) | **15,133,914** | | Total | **56,471,914** | |

1. **Planned Waste Management System**



|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Item and Description | Ten-Year Planning Plan | | | | | | | | | | | |
| **2018** | **2019** | **2020** | **2021** | **2022** | **2023** | **2024** | **2025** | **2026** | **2027** | **2028** | **Total** |
| I. Collection & Transport |  |  |  |  |  |  |  |  |  |  |  |  |
| \*Establishment of pick-Up point areas |  |  | 250,000 | 250,000 |  |  |  |  |  |  |  | **500,000** |
| II.MATERIAL RECOVERY FACILITY |  |  |  |  |  |  |  |  |  |  |  |  |
| \*Improvement of Central MRF |  |  |  |  | 1,000,000 |  |  |  |  |  |  | **1,000,000** |
| \*Procurement of Necessary Materials (Scales, spade, rake, etc) |  | 5,000 |  |  |  |  |  | 5,000 |  |  |  | **10,000** |
| III. DISPOSAL MANAGEMENT |  |  |  |  |  |  |  |  |  |  |  |  |
| \*Establishment of TRCA | 1,000,000 |  |  |  |  |  |  |  |  |  |  | **1,000,000** |
| \*Production/Processing Area w/ Office & CR |  | 2,000,000 |  |  |  |  |  |  |  |  |  | **2,000,000** |
| \*Establishment of Additional Vault |  |  | 250,000 |  |  |  |  |  |  |  |  | **250,000** |
| Maintenance/operation Expenses |  | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | **1,000,000** |
| \*Establishment of SLF |  |  |  | 15,000,000 |  |  |  |  |  |  |  | **15,000,000** |
| \*Procurement of Garbage Trucks |  | 5,500,000 |  |  |  |  | 5,700,000 |  |  |  |  | **11,200,000** |
| \*Procurement of Top-Down Tricycles for Barangays |  |  | 700,000 |  |  |  |  |  |  |  |  | **700,000** |
| \*Procurement of Multi-Shredding & Baling Machines |  | 2,000,000 | 2,000,000 |  |  | 2,000,000 |  |  |  | 2,000,000 |  | **8,000,000** |
| \*Procurement of Extruders (bricks, hollow block, balusters, paving blocks |  | 500,000 |  |  |  |  |  |  |  |  |  | **500,000** |
| Total | **1,000,000** | **10,105,000** | **3,300,000** | **15,350,000** | **1,100,000** | **2,100,000** | **5,800,000** | **105,000** | **100,000** | **2,100,000** | **100,000** | **41,150,000** |

**Table 35. INVESTMENT COST UNDER 20% DEVELOPMENT FUND, 2019 - 2028**

***Annex A***

***Annex B***

**Table.36: Annual Cost under Maintenance and Other Operating Expenses, 2019 – 2028**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Item & Description | Ten-Year Planning Program | | | | | | | | | | |
| **2019** | **2020** | **2021** | **2022** | **2023** | **2024** | **2025** | **2026** | **2027** | **2028** | **Total** |
| \*Fuel/Lubricants | 150,000 | 150,000 | 150,000 | 155,000 | 155,000 | 160,000 | 160,000 | 160,000 | 160,000 | 160,000 | **1,560,000** |
| \*Vehicle maintenance ,repair, and spare parts | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | **1,500,000** |
| \*Protective gears & supplies | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | **80,000** |
| \*General Services | 264,000 | 264,000 | 264,000 | 330,000 | 330,000 | 330,000 | 330,000 | 330,000 | 330,000 | 330,000 | **3,102,000** |
| \*Utilities (Elec. Expenses) | 3,000 | 3,000 | 3,000 | 3,000 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | **33,000** |
| \*Office supplies | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | 70,000 | **700,000** |
| \*Traveling Expenses | 100,000 | 100,000 | 100,000 | 100,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | **1,300,000** |
| \*Training Expenses | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | **500,000** |
| \*IEC Materials | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | **80,000** |
| SWM Programs/Projects | 500,000 | 500,000 | 500,000 | 500,000 | 500,000 | 500,000 | 500,000 | 500,000 | 500,000 | 500,000 | **5,000,000** |
| Total | **1,303,000** | **1,303,000** | **1,303,000** | **1,374,000** | **1,424,500** | **1,429,500** | **1,429,500** | **1,429,500** | **1,429,500** | **1,429,500** | **13,855,00** |

*Source: MENRO 2018*

**Table 37: Personnel Services, 2019 - 2028**

***Annex C***

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Item & Description | Ten-Year Planning Period | | | | | | | | | | TOTAL |
| **2019** | **2020** | **2021** | **2022** | **2023** | **2024** | **2025** | **2026** | **2027** | **2028** |
| I. Collection & Transport | | | | | | | | | | |  |
| Plantilla positions for: |  |  |  |  |  |  |  |  |  |  |  |
| \*Drivers | - | - | - | - | 72,550 | 72,550 | 72,550 | 72,550 | 72,550 | 72,550 | **435,300** |
| \*Collectors |  |  |  |  |  |  |  |  | 9,184 | 9,184 | **18,368** |
| II. Program Implementation | | | | | | | | | | |  |
| Plantilla positions for: |  |  |  |  |  |  |  |  |  |  |  |
| \*MENRO | 65,075 | 65,075 | 65,075 | 65,075 | 65,075 | 65,075 | 65,075 | 65,075 | 65,075 | 65,075 | **650,750** |
| \*Admin. Aides |  |  |  | 9,184 | 9,184 | 18,368 | 18,368 | 18,368 | 27,552 | 27,552 | **128,576** |
| \*Utility |  |  |  |  |  | 9,184 | 9,184 | 9,184 | 9,184 | 9,184 | **45,920** |
| Total | **65,075** | **65,075** | **65,075** | **74,259** | **146,809** | **165,177** | **165,177** | **165,177** | **183,545** | **183,545** | **1,278,914** |

*Source: MENRO 2018*

***Annex D***

**Table 38: Capital Outlay, LGU Calintaan 2019 - 2028**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Item & Description | Ten-Year Planning Period | | | | | | | | | | Total |
| **2019** | **2020** | **2021** | **2022** | **2023** | **2024** | **2025** | **2026** | **2027** | **2028** |
| I. Program Management | | | | | | | | | | |  |
| \* Additional Laptop | 70,000 | - | - | - | - | 70,000 | - | - | - | - | 140,000 |
| \*Camera | 30,000 | - | - | - | - | - | - | - | - | - | 30,000 |
| \*Speaker with Microphone | 8,000 | - | - | - | - | - | - | - | - | - | 8,000 |
| Total | **108,000** | **-** | **-** | **-** | **-** | **70,000** | **-** | **-** | **-** | **-** | **178,000** |

*Source: MENRO 2018*