



## VSU R&D ANNUAL REPORT January to December 2022

Center/College/Department: **Ecological Farm and Resource Management Institute**  
Project Title: **INTEGRATED NUTRIENT MANAGEMENT FOR HORTICULTURAL CROPS**

### A. Research papers/posters disseminated/presented

| TITLE OF PAPER/POSTER   | DATE, VENUE  | RESEARCHERS/PRESENTERS   |
|---|--|--|
| <b>a. Institutional</b>   |  |  |
| INTEGRATED NUTRIENT MANAGEMENT FOR HORTICULTURAL CROPS:<br>Effects of Bio-fertilizers on soil properties and productivity of Bulb Onion ( <i>Allium cepa</i> L.), and Malabar Spinach ( <i>Basella alba</i> L.)(ORP10 - CAHO NM 14-1420-11) | RDE In-House Review/Eco-FARMI, VSU /August 3, 2022 | Romel B. Armecin/Dhenber C. Lusanta/ Warren Kim Siarot/ Jenyrose F. Ang-og |
| <b>b. Regional</b>  |  |  |
| <b>c. National</b>  |  |  |
| <b>d. International</b>   |  |  |

### B. Attendance of researchers to scientific *fora*/ training/workshop/seminars –

| TITLE                   | DATE/VENUE                    | RESEARCHERS ATTENDED   |
|-------------------------|-------------------------------|--|
| <b>a. Institutional</b> |                               |  |
| RDE In-House Review     | Eco-FARMI, VSU August 3, 2022 | Romel B. Armecin/Dhenber C. Lusanta/ Warren Kim Siarot/ Jenyrose F. Ang-og |
| <b>b. Regional</b>      |                               |  |
| None                    |                               |  |
| <b>c. National</b>      |                               |  |
| None                    |                               |  |
| <b>d. International</b> |                               |  |
| None                    |                               |  |

### C. Technologies/Information patented and commercialized

- Technology patented (**Please give a brief description of the technology, generator and the status of patenting**)
- Technology commercialized (**Please give a brief description of the product, impact and the researcher/generator**)

### D. Research papers published

|   | TITLE | AUTHOR (S) | DATE/YEAR/PUBLICATION/<br>PUBLISHER | REMARKS |
|---|-------|------------|-------------------------------------|---------|
| a. Refereed Journal                           | N/A   |            |                                     |         |
| Institutional                                 |       |            |                                     |         |
| National                                      |       |            |                                     |         |
| International                                 |       |            |                                     |         |
| b. Semi-popular publ'n<br>(newsletter, etc.)  | N/A   |            |                                     |         |
| c. Popularized publ'n<br>(technoguides, etc.) | N/A   |            |                                     |         |
| d. Book Chapter/s                             | N/A   |            |                                     |         |
| e. Books                                      | N/A   |            |                                     |         |

E. R and D awards and recognitions received

| NAME OF AWARDS   | TITLE OF PAPER/ POSTER GAINED AWARD | RECIPIENT/S | PLACE AWARDED | DATE AWARDED | AWARD OBTAINED<br>(Plaque; if cash, indicate amount) | SPONSORING AGENCY |
|------------------|-------------------------------------|-------------|---------------|--------------|--|-------------------|
| a. Institutional | None                                |             |               |              |  |                   |
| b. Regional      | None                                |             |               |              |  |                   |
| c. National      | None                                |             |               |              |  |                   |
| d. International | None                                |             |               |              |  |                   |

F. R and D inter-agency linkages forged/maintained

| NAME OF AGENCY                  | NATURE OF LINKAGE | Brief Description of Linkage | Remarks (specify amt generated, etc.) |
|---------------------------------|-------------------|------------------------------|---------------------------------------|
| a. Local (with LGUs, NGOs, POs) | None              |                              |                                       |
| b. Regional                     | None              |                              |                                       |
| c. National                     | None              |                              |                                       |
| d. International                | None              |                              |                                       |

G. List of Ongoing/ Completed R&D Projects

| Program/Project/ Study Title  | Proponent/s                             | Collaborator/ cooperators | Lead Agency   | Collaborating Agency |
|---|---|---------------------------|---|----------------------|
| INTEGRATED NUTRIENT MANAGEMENT FOR HORTICULTURAL CROPS:<br>Effects of Bio-fertilizers on soil properties and productivity of Bulb Onion ( <i>Allium cepa</i> L.), and Malabar Spinach ( <i>Basella alba</i> L.)(ORP10 - CAHO NM 14-1420-11) | Romel B. Armecin,<br>Dhenber C. Lusanta |                           | Ecological - Farm and Resource Management Institute |                      |
| INTEGRATED NUTRIENT MANAGEMENT FOR HORTICULTURAL CROPS:<br>Effects of Bio-fertilizers on soil   | Romel B. Armecin,<br>Dhenber C. Lusanta |                           | Ecological - Farm and Resource Management           |                      |

|  |  |  |             |  |
|--|--|--|-------------|--|
| properties and productivity of Arugula ( <i>Eruca vesicaria</i> ) and other herbs (ORP10 - CAHO NM 14-1420-11) |  |  | t Institute |  |
|--|--|--|-------------|--|

#### H. List of Trainings/ Seminars/ Workshops Conducted

| Title of Training/<br>Seminar/Workshop | Date Conducted | Venue | No. of<br>Participants | Sponsoring<br>Agencies |
|--|----------------|-------|------------------------|------------------------|
| NONE                                   |                |       |                        |                        |
| NONE                                   |                |       |                        |                        |

#### I. List of equipment/facilities purchased/enhanced

| Equipment Purchased/ Upgraded/<br>Facilities Enhanced | Location/ Agency | Expenditure/ Cost | Source of Funds |
|---|------------------|-------------------|-----------------|
| NONE  |                  |                   |                 |
| NONE  |                  |                   |                 |