### JEZZINE - COMPOSTING FACILITY

#### **INTRODUCTION:**

In Year I, DAWERR started developing sustainable composting value chains for organic waste and strengthening existing Recycling Value Chains (RVCs) for recyclable materials in seven selected municipalities, including Jezzine, as solid waste diversion and valorization pilots (the "pilots").

As part of the pilots, DAWERR will support Jezzine Municipality and its local community to develop sustainable composting value chains for organic waste (representing 50% of the total municipal solid waste stream) including source separation, collection, and composting of organic waste through the construction of small-scale, low-tech (with spare parts available in the local market), low-cost (capital and O&M) composting stations, creating local demand for the compost produced for agricultural, landscaping, or other uses as soil conditioner/ fertilizer supplement. DAWERR also will facilitate linkages with existing material recovery facilities and engaging the private sector to strengthen value chains for other, non-organic recyclables.

DAWERR is providing targeted technical, financial, and business support to Jezzine Municipality to design, implement, and manage the "pilot".

# SUMMARY OF CONSTRUCTION ACTIVITIES AND PROVISION OF EQUIPMENT

DAWERR will construct a composting station - container composter (see details in the drawings below), for which DAWERR subcontractor Compost Baladi has an exclusive Lebanese patent, provide equipment to Jezzine Municipality as listed below, and conduct training to the Municipality/Operator to operate and maintain the station and ensure its sustainability beyond the life of the Activity as follows:

#### I. Construction Activities:

#### a. Municipality Contribution:

The municipality will be responsible for obtaining the necessary permits and approvals for the composting station (including establishment permit and construction permit) from the related authorities and will contribute to the construction works in the selected plot/site (plot#86, Jezzine) that will host the composting station including:

- I. The topographic surveys during the project implementation, where needed.
- 2. Rehabilitation and asphalting the access road leading to the project's site.
- 3. The excavation works and the land preparation following the designs, specification and calculations provided by DAWERR civil engineer.
- 4. The construction of cyclopean concrete walls for the project's fence.
- 5. Planting trees all around the project's fence.

Municipality work contribution will be implemented under the design and supervision of DAWERR consultant engineer.

#### b. **DAWERR** Contribution:

DAWERR will be responsible for the following:

- I. The earth works and land's preparation including Base coarse layer, excavation of the foundations, etc.
- 2. The reinforced concrete works including blinding concrete, foundations, tie beams, channels and pits, slab on grade, etc.
- 3. The steel works including: the construction of two steel hangars (Blocks A&B), The steel fence, the project's gates, etc.
- 4. Finishing for the Block A and B (as shown in top of Roof Plan drawing) including partition plastering painting doors, windows, tiling, etc.
- 5. Electrical installation including power, lighting and low current, networks, earthing, etc.
- 6. Mechanical installation including drainage and water supply networks, sanitary fixtures for the reception's toilet, etc.
- 7. Landscaping works including the asphalting of the external yards, etc.

### PROJECT BRIEF

#### 2. Provision of Equipment:

Once the construction phase is completed, DAWERR will provide and install the following equipment:

- I. Three container composter 40' with all its related equipment.
- 2. One container 20' for storage.
- 3. One screening machine to screen the compost produced.
- 4. Solar Photovoltaic (PV) system for the Electrical power supply. (To be confirmed; not included in this submission)

#### **Important Note:**

This submission is an intermediary design and will be used by the municipality in the permit's acquisition process.

The detailed drawings, calculation notes, tests, etc., will be submitted after the permit issuance.

## JEZZINE COMPOSTING FACILITY LIST OF ARCHITECTURAL INTERMEDIARY DESIGN DRAWINGS

Sheet Number	SHEET TITLE	SCALE
A-00	LIST OF DRAWINGS — PROJECT BRIEF	N.T.S.
A-01	MASS PLAN	1/1000
A-02	SCHEMATIC SANITARY PLAN	1/100
A-03	SCHEMATIC FOUNDATIONS PLAN	1/100
A-04	GROUND FLOOR PLAN	1/100
A-05	TOP OF ROOF PLAN	1/100
A-06	SECTIONS AA & BB	1/100
A-07	ELEVATIONS	1/100
A-08	PRODUCTION LINE AND EQUIPMENT	1/100



ACTIVITY:

DAWERR

PILOT:

JEZZINE MUNICIPALITY

ENGINEER:

ROY T. HELOU

Civil Engineer

Mobile : +961 (70) 169547

GENERAL NOTES:

1-THIS DRAWING IS NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.

2-ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE INDICATED.

3-ALL LEVELS ARE IN METERS.

KEY PLAN:

20/07/2022 REV2—INTERMEDIARY DESIGN RM CA RHE
20/05/2022 REV1—INTERMEDIARY DESIGN RM CA RHE
14/04/2022 INTERMEDIARY DESIGN RM CA RHE
EV. DATE MODIFICATION DRAWN DESIGNED CHECKED

JEZZINE 86

Project Na

COMPOSTING STATION

JEZZINE - SOUTH

DRAWING TITLE:

LIST OF DRAWINGS -PROJECT BRIEF & GENERAL NOTES

DRAWING NUMBER

AUU

SCALE : N.T.S. DATE : 20/07/2022















