CONGRESS OF THE PHILIPPINES SIXTEENTH CONGRESS First Regular Session

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HOUSE OF REPRESENTATIVES

H. No. 4539

BY REPRESENTATIVES GARIN (S.), YAP (A.) AND GUANLAO, PER COMMITTEE REPORT NO. 275

AN ACT PROMOTING SOIL AND WATER CONSERVATION TECHNOLOGIES AND APPROACHES FOR SUSTAINABLE LAND MANAGEMENT

Be it enacted by the Senate and House of Representatives of the Philippines in Congress assembled:

SECTION I. Short Title. - This Act shall be known as the "Soil and Water Conservation Act".

SEC. 2. Declaration of Policy. — It is hereby declared the policy of the State to promote and support soil and water conservation technologies and approaches through the development, promotion, and implementation of soil and water conservation measures and practices, including rainwater harvesting, to enhance decision-making, planning and potential upscaling of good practices. Towards this end, the State shall support Sustainable Land Management (SLM) programs for the prevention of land degradation and protection of the environment and natural resource base, and to protect the livelihood of farmers, particularly of upland farmers and indigenous people.

SEC. 3. Definition of Terms. — As used in this Act:

- (a) Land degradation refers to the reduction or loss of the biological or economic productivity and complexity of rainfed cropland, irrigated cropland, range, pasture, forest, and woodlands resulting from land use or from processes or combination of processes arising from human activities and habitation pattern such as: (1) soil erosion caused by wind and/or water; (2) deterioration of the physical, chemical, and biological or economic properties of soils; and (3) long-term loss of natural vegetation;
- (b) Organic agriculture refers to a production system that sustains the health of soils, ecosystems and people. It relies on ecological processes, biodiversity and cycles adapted to local conditions, rather than the use of inputs with adverse effects. Organic agriculture combines tradition, innovation, and science to benefit the shared environment and to promote fair relationship and good quality of life for all involved;
- (c) Rainfed area refers to an area not served by any irrigation facility and mainly relies on rainfall for crop and animal production;
- (d) Rainwater harvesting system refers to a system that collects, accumulates, and stores rainwater and surface runoff for purposes of supplemental irrigation, inland fish production, and other agricultural purposes;
- (e) Small-scale rainwater harvesting system refers to reservoir storage facilities with a height of not more than five (5) meters and a surface area of not more than two thousand five hundred square meters (2,500 sq. m.);
- (f) Sloping Agricultural Land Technology (SALT) refers to a simple, applicable, low-cost method of upland farming which consists of alley farming in which field and perennial crops are grown in bands four to five meters (4-5m) wide between contoured rows of leguminous trees and shrubs;

(g) Soil and water conservation technologies refer to measures that control soil and water degradation and enhance productivity in the field:

- (h) Soil and water conservation approaches refer to ways and means of support that help to introduce, implement, adapt, and apply soil and water conservation technologies in the field;
- (i) Soil and Water Conservation Guided Farm (SWCGF) refers to a farm established to showcase appropriate soil and water conservation technologies for possible replication and upscaling. It is also an approach that facilitates the proper implementation of soil and water conservation technologies through the provision of technical assistance in the field survey, soil and water conservation farm planning and implementation of the plan;
- (j) Soil and water conservation farm plan refers to a plan that considers the right mix of farm enterprises and appropriate soil and water conservation technologies, which is formulated with reference to existing biophysical and socioeconomic conditions of the farm and in consultation with farmer-cooperators;
- (k) Soil conservation refers to the management of soil to prevent or reduce soil erosion and depletion by wind and water;
- (1) Sustainable Land Management (SLM) refers to the use of land resources, including soils, water, animals and plants, for the production of goods to meet changing human needs, while simultaneously ensuring the long-term productive potential of these resources and the maintenance of their environmental functions:
- (m) Upland refers to the extensive portion of land located within one hundred to five hundred meters above sea level (100-500 masl) with slope of less than eighteen percent (18%);
- (n) Water conservation refers to the protection, development, and efficient management of water resources for beneficial purposes;

- (o) Watershed refers to a land area drained by a stream or fixed body of water and its tributaries having common outlet for surface runoff. This includes small watershed with an area of ten thousand hectares (10,000 has.) and below; medium-scale watershed with an area of more than ten thousand hectares (10,000 has.) to fifty thousand hectares (50,000 has.); and large-scale watershed with an area of fifty thousand hectares (50,000 has.);
- (p) Watershed management refers to the process of guiding and organizing land and other resource uses in a watershed to provide desired goods and services without adversely affecting soil, water and other natural resources; and
- (q) Watershed protection refers to a management strategy to control soil erosion and prevent illegal cutting of vegetations and other land degrading activities in the watershed.
- SEC. 4. The National Soil and Water Conservation Program. In order to address the problem of land degradation which affects the state and management of our natural resources, a National Soil and Water Conservation Program, hereinafter referred to as the Program, is hereby established. The Program shall foment synergies between agricultural productivity improvement and sustainable land management through the promotion and implementation of soil and water conservation technologies and approaches.

The Bureau of Soils and Water Management (BSWM), in consultation with concerned agencies and other stakeholders, shall prepare the National Soil and Water Conservation Program, subject to the approval of the Secretary of the Department of Agriculture (DA). Upon implementation of this Act, the BSWM shall submit Annual Reports and Progress Reports as may be required, within five (5) years to the Secretary of the DA for review and assessment.

SEC. 5. Goals and Objectives. — The Program shall support the implementation of the SLM projects for livelihood improvement and prevention of land degradation in the uplands. As such, it shall pursue the following specific objectives:

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- (a) To establish one thousand (1,000) Soil and Water Conservation Guided Farms within five (5) years from the effectivity of this Act in order to showcase sustainable land management best practices such as, but not limited to, sloping agricultural land technology, organic-based agriculture, farm waste and residue management, wastewater recycling and reuse, rainwater harvesting or combination of two (2) or more of these practices, including approaches to implement these practices;
- (b) To establish ten thousand (10,000) units of small-scale rainwater harvesting systems consisting of rainwater reservoir development, watershed management, and service area development in strategic upland areas throughout the country, within five (5) years from the effectivity of this Act; and
- (c) To capacitate and empower local government units (LGUs) and farmers associations in the implementation, operationalization and maintenance of soil and water conservation model farms and rainwater harvesting systems.
- SEC. 6. Implementing Agency. The DA, through the BSWM and the DA-Regional Field Units (DA-RFUs), shall provide the technical and administrative support in the implementation of the Program and all other policies and objectives of this Act.
- SEC. 7. Farmers Associations. Farmer-cooperators and program recipients shall be organized into associations and/or cooperatives and shall be capacitated on soil and water conservation. The BSWM and the DA-RFUs, in coordination with the concerned LGUs, shall train them on soil and water

conservation and shall assist them in accessing available credit windows to sustain the operation and maintenance of the soil and water conservation facilities to be established.

The BSWM and the DA-RFUs, in coordination with the concerned LGUs, shall assist and facilitate the registration of such associations and/or cooperatives for purposes of participation in the Program: *Provided*, That the farmers shall select the leaders of their respective aggrupations in accordance with the constitution and bylaws that they shall formulate and firm up.

SEC. 8. Soil and Water Conservation Guided Farms. — Soil and Water Conservation Guided Farms (SWCGF) shall serve as model farms that will showcase soil and water conservation technologies and approaches in the uplands. These will provide a multiplier effect by encouraging other farmers to engage in soil and water conservation. For this purpose, the SWCGF shall be established in clusters within high impact areas such as watersheds.

Potential sites shall be identified and selected using approved site selection criteria, in coordination with the concerned LGUs and farmers associations. Selected sites shall be subjected to various field surveys, biophysical characterization, and socioeconomic profiling, the results of which shall serve as inputs in the preparation of the Soil and Water Conservation Farm Plan: *Provided*, That the said plan shall be prepared in consultation with farmers based on the site's biophysical characteristics, market potential of crops to be produced, and capability and resources of farmer-cooperators to manage the farm. The SWCGF shall be established in accordance with the Soil and Water Conservation Farm Plan, farmers' capabilities and preferences, and available resources.

The concerned LGUs, through the Office of the Municipal Agriculturist, shall provide agriculture support and services to the farmer-cooperators of the SWCGF to ensure its sustainability and facilitate broader adoption by more farmers within a locality.

SEC. 9. Small-scale Rainwater Harvesting Structures. – Small-scale rainwater harvesting structures shall be designed and established in cluster to store rainwater and surface runoff within a watershed. Potential sites shall be identified and selected using approved site selection criteria in coordination with the concerned LGUs and farmers associations. Selected sites shall be subjected to various field surveys, biophysical characterization and socioeconomic profiling. The small-scale rainwater harvesting structures shall be implemented in accordance with the approved engineering plans and design, and field distribution which shall be prepared by the concerned LGUs with technical assistance from the BSWM and the DA-RFUs.

The BSWM shall turn over the small-scale rainwater harvesting structures to the concerned LGUs wherein said structures are located. Subject to the requirements to be set by the BSWM, the LGU shall accordingly entrust and delegate the operation and maintenance of structures to duly organized farmers associations as recipients.

Farmers shall be required to formulate or prepare the appropriate cropping pattern and calendar that will optimize the use of stored rainwater with the technical assistance from the LGUs through the Office of the Municipal Agriculturist.

SEC. 10. Research, Development and Extension Services. – Research, development and extension services on soil and water conservation shall be an important component of the Program to provide a dynamic technology development, information dissemination and extension support in the implementation of the Program. Research and development shall cover, but

shall not be limited to, the following areas: rainwater harvesting design methods, runoff management technologies, soil moisture conservation impacts, and groundwater recharge enhancement.

The BSWM, the Bureau of Agricultural Research (BAR) and the Agricultural Training Institute (ATI) of the DA, the Ecosystem Research and Development Bureau (ERDB) of the Department of Environment and Natural Resources (DENR), and concerned state universities and colleges (SUCs), through proper and appropriate institutional arrangements, shall provide technical support and assistance in the conduct of research and development and in the provision of extension services on soil and water conservation to LGUs and farmers associations and cooperatives.

The BSWM and the ATI shall also assist the LGUs in the conduct of trainings for beneficiaries and/or cooperators of the SWCGFs and small-scale rainwater harvesting systems prior to operation and/or turnover of said facilities.

SEC. 11. Implementing Rules and Regulations. — The DA and the BSWM, in consultation with other concerned agencies and stakeholders, shall promulgate the necessary rules and regulations to implement this Act.

SEC. 12. Appropriations. — The amount necessary for the initial implementation of this Act shall be charged to the budget of the DA under the current General Appropriations Act. Thereafter, such sums as may be necessary for its continued implementation shall be included in the annual General Appropriations Act.

SEC. 13. Separability Clause. - If any of the provisions of this Act is declared invalid, the other provisions which are not affected thereby shall remain to be in full force and effect.

SEC. 14. Repealing Clause All laws or parts thereof, decrees
orders, rules and regulations inconsistent with the provisions of this Act are
hereby repealed or modified accordingly.
SEC. 15. Effectivity This Act shall take effect fifteen (15) days after
its publication in the Official Gazette or in a newspaper of general circulation.
Approved.