



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
KAGAWARAN NG KAPALIGIRAN AT LIKAS NA YAMAN



MEMORANDUM

FOR : **The Directors**
Legal Affairs Service
Policy and Planning Service
Climate Change Service

The Bureau Directors
Environmental Management Bureau
Biodiversity Management Bureau
Forest Management Bureau
Land Management Bureau
Ecosystems Research and Development Bureau

The Executive Directors
National Water Resources Board
Manila Bay Coordinating Office
River Basin Control Office

The Officer-In-Charge
Mines and Geosciences Bureau

All Regional Executive Directors

FROM : **The Director**
Legislative Liaison Office

SUBJECT : **INVITATION TO THE 4th TECHNICAL WORKING GROUP (TWG) MEETING ON THE DRAFT SUBSTITUTE BILL RE: ESTABLISHMENT AND MAINTENANCE OF RAINWATER HARVESTING FACILITY AND HOUSE RESOLUTIONS 906 AND 1151 OR AN INQUIRY IN AID OF LEGISLATION INTO THE STATUS OF THE IMPLEMENTATION OF RA 6716 OR "AN ACT PROVIDING FOR THE CONSTRUCTION OF WATER WELLS, RAINWATER COLLECTORS, DEVELOPMENT OF SPRINGS AND REHABILITATION OF EXISTING WATER WELLS IN ALL BARANGAYS IN THE PHILIPPINES" FROM THE COMMITTEE ON PUBLIC WORKS AND HIGHWAYS OF THE HOUSE OF REPRESENTATIVES**

DATE : 13 May 2024

In reference to the electronic letter received by our Office, the Committee on Public Works and Highways of the House of Representatives will be having its 4th Technical Working Group (TWG) meeting on **15 May 2024, Wednesday 01:00PM at Andaya Hall, House of Representatives, Quezon City** to continue its deliberation on the following legislative measures:

- **Draft Substitute Bill to HBs 2412, 2553, 2753, 3862, 4441, 4837, 5027, 5640, 7786, 8148, 8957, and 9353** - "AN ACT MANDATING THE ESTABLISHMENT AND MAINTENANCE OF RAINWATER HARVESTING FACILITY IN ALL NEW INSTITUTIONAL, COMMERCIAL, INDUSTRIAL, AND RESIDENTIAL DEVELOPMENT PROJECTS NATIONWIDE" (by Reps. Angelo Marcos Barba, Romeo S. Momo Sr., Alfred C. Delos Santos, Gus S. Tambunting, Fernando T. Cabredo, Rex Gatchalian, Rosanna "Ria" V. Vergara, Christopherson "Coco" M. Yap, Robert Ace S. Barbers, Augustina Dominique "Ditse Tina" C. Pancho, Luis Raymund "Lray" F. Villafuerte Jr., Joseph Gilbert F. Violago, Arthur F. Celeste, Noel "Bong" N. Rivera, Richard I. Gomez, Lani Mercado-Revilla, Bryan B. Revilla, Ramon Jolo B. Revilla, Danny A. Domingo, Ralph Wendel P. Tulfo, Jocelyn P. Tulfo, and Erwin T. Tulfo);
- **House Bill No. 1151** - "RESOLUTION DIRECTING THE COMMITTEE ON PUBLIC WORKS AND HIGHWAYS TO CONDUCT AN INQUIRY, IN AID OF LEGISLATION, INTO THE STATUS OF THE IMPLEMENTATION OF REPUBLIC ACT 6716 WHICH PROVIDES FOR THE CONSTRUCTION OF WATER WELLS AND RAINWATER COLLECTORS IN ALL BARANGAYS IN THE PHILIPPINES " by Rep. Pleyto, Salvador A.; and
- **House Bill No. 906** - "RESOLUTION URGING THE COMMITTEE ON PUBLIC WORKS AND HIGHWAYS AND THE COMMITTEE ON ECOLOGY TO JOINTLY INQUIRE, IN AID OF LEGISLATION, INTO THE INADEQUATE IMPLEMENTATION OF THE 1989 LAW THAT MANDATES THE CONSTRUCTION OF RAINWATER COLLECTORS IN ALL BARANGAYS" by Rep. Campos, Luis Jr. N.

In this regard, may we respectfully request for **additional comments and recommendations, if any, on the abovementioned bills, in anticipation of the Committee meeting**, as requested by the Committee. Kindly send them on or before **17 May 2024, at 5 PM** via email at denrilo@denr.gov.ph. Further, kindly inform us of the name/s of the representative/s from your office who will participate in the meeting so we may include him/her/them as resource person/s.

Attached herewith are the Agenda, draft Substitute Bill, and House Resolutions for your reference.


ROMIROSE B. PADIN

Cc: Undersecretary for Special Concerns and Legislative Affairs
Undersecretary for Integrated Environmental Science

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COMMITTEE ON PUBLIC WORKS & HIGHWAYS

CTSS-I, Committee Affairs Department, House of Representatives
3rd Floor, Ramon V. Mitra Building, Batasan Hills, Quezon City, Philippines 1126
Telefax: 9310200, TrunkLine: 9315001 local 7135

08 May 2024

HON. MANUEL M. BONOAN

Secretary

Department of Public Works and Highways (DPWH)
City of Manila

HON. ARSENIO M. BALISACAN

Secretary

National Economic and Development Authority (NEDA)
Pasig City

HON. RALPH G. RECTO

Secretary

Department of Finance (DOF)
City of Manila

HON. AMENAH F. PANGANDAMAN

Secretary

Department of Budget and Management (DBM)
City of Manila

HON. ROMEO D. LUMAGUI, JR.

Commissioner

Bureau of Internal Revenue (BIR)
Quezon City

HON. BENJAMIN "BENHUR" ABALOS JR.

Secretary

Department of the Interior and Local Government (DILG)
Quezon City

HON. JOSE RIZALINO "JERRY" L. ACUZAR

Secretary

Department of Human Settlements and Urban Development (DHSUD)
Quezon City

HON. FRANCISCO TIU LAUREL JR.

Secretary

Department of Agriculture (DA)
Quezon City

HON. RENATO U. SOLIDUM, JR.

Secretary

Department of Science and Technology (DOST)
Taguig City

HON. MARIA ANTONIA YULO LOYZAGA

Secretary

Department of Environment and Natural Resources (DENR)
Quezon City

HON. VICENTE B. MALANO, Ph.D.

Administrator

Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA)
Quezon City

HON. EDUARDO EDDIE G. GUILLEN

Acting Administrator

National Irrigation Administration (NIA)
Quezon City

HON. MARK LLANDRO L. MENDOZA

Secretary, PLLO

Chief of the Presidential Legislative Liaison Office (PLLO)
Presidential Adviser on Legislative Affairs
City of Manila

HON. REYNALDO S. TAMAYO JR.

National President

League of Provinces of the Philippines (LPP)
Pasig City

HON. MICHAEL L. RAMA

National President

League of Cities of the Philippines (LCP)
Quezon City

HON. JOSEPH SANTO NIÑO "JB" BERNOS

National President

League of Municipalities of the Philippines (LMP)
Quezon City

HON. DAKILA CARLO E. CUA

President

Union of Local Authorities of the Philippines (ULAP)
Mandaluyong City

Your Honors:

Please be informed that the Committee on Public Works and Highways will hold a Technical Working Group (TWG) Meeting on the date, time, venue and agenda indicated hereunder:

DATE: 15 May 2024 (Wednesday)

TIME: 01:00 P.M.

VENUE: Andaya Hall
House of Representatives Complex, Quezon City

AGENDA:

1. **Draft Substitute Bill to HBs 2412, 2553, 2753, 3862, 4441, 4837, 5027, 5640, 7786, 8148, 8957, and 9353**, entitled: "An Act Mandating the Establishment and Maintenance of Rainwater Harvesting Facility in All New Institutional, Commercial, Industrial, and Residential Development Projects Nationwide" (by Reprs. *Angelo Marcos Barba, Romeo S. Momo Sr., Alfred C. Delos Santos, Gus S. Tambunting, Fernando T. Cabredo, Rex Gatchalian, Rosanna "Ria" V. Vergara, Christopherson "Coco" M. Yap, Robert Ace S. Barbers, Augustina Dominique "Ditse Tina" C. Pancho, Luis Raymund "Lray" F. Villafuerte Jr., Joseph Gilbert F. Violago, Arthur F. Celeste, Noel "Bong" N. Rivera, Richard I. Gomez, Lani Mercado-Revilla, Bryan B. Revilla, Ramon Jolo B. Revilla, Danny A. Domingo, Ralph Wendel P. Tulfo, Jocelyn P. Tulfo, and Erwin T. Tulfo*); and
2. **HRs 906 and 1151** – Directing the Committee on Public Works and Highways to conduct an inquiry, in aid of legislation, into the status of the implementation of Republic Act 6716 which provides for the construction of water wells and rainwater collectors in all *barangays* in the Philippines (by Reprs. *Luis N. Campos Jr. and Salvador A. Pleyto*).

In line with this, we would like to invite you or your duly authorized representative/s as our resource person/s during the said TWG meeting. Kindly inform the committee as to the details of your attendees on or before 15 May 2024 for proper coordination.

Your presence will be highly appreciated.

Thank you.

Very truly yours,

FOR THE HONORABLE TWG CHAIRMAN ANGELO MARCOS BARBA:



AILEEN UY DAPURAN
Committee Secretary



COMMITTEE ON PUBLIC WORKS & HIGHWAYS

CTSS-I, Committee Affairs Department, House of Representatives
3rd Floor, Ramon V. Mitra Building, Batasan Hills, Quezon City, Philippines 1126
Telefax: 9310200, Trunk Line: 9315001 local 7135

**19th Congress
2nd Regular Session**

Technical Working Group (TWG) Meeting

**15 May 2024 (Wednesday), 1:00 P.M.
Andaya Hall, House of Representatives, Quezon City**

AGENDA

- I. CALL TO ORDER
- II. INVOCATION
- III. ACKNOWLEDGEMENT OF MEMBERS AND GUESTS/RESOURCE PERSONS
- IV. OPENING REMARKS OF THE HONORABLE TWG CHAIRPERSON, REP. ANGELO MARCOS BARBA
- V. 4th TWG DELIBERATION ON THE FOLLOWING HOUSE MEASURES:
 1. **Draft Substitute Bill to HBs 2412, 2553, 2753, 3862, 4441, 4837, 5027, 5640, 7786, 8148, 8957, and 9353**, entitled: "An Act Mandating the Establishment and Maintenance of Rainwater Harvesting Facility in All New Institutional, Commercial, Industrial, and Residential Development Projects Nationwide" (*by Reps. Angelo Marcos Barba, Romeo S. Momo Sr., Alfred C. Delos Santos, Gus S. Tambunting, Fernando T. Cabredo, Rex Gatchalian, Rosanna "Ria" V. Vergara, Christopherson "Coco" M. Yap, Robert Ace S. Barbers, Augustina Dominique "Ditse Tina" C. Pancho, Luis Raymund "Lray" F. Villafuerte Jr., Joseph Gilbert F. Violago, Arthur F. Celeste, Noel "Bong" N. Rivera, Richard I. Gomez, Lani Mercado-Revilla, Bryan B. Revilla, Ramon Jolo B. Revilla, Danny A. Domingo, Ralph Wendel P. Tulfo, Jocelyn P. Tulfo, and Erwin T. Tulfo*); and
 2. **HRs 906 and 1151** – Directing the Committee on Public Works and Highways to conduct an inquiry, in aid of legislation, into the status of the implementation of Republic Act 6716 which provides for the construction of water wells and rainwater collectors in all *barangays* in the Philippines (*by Reps. Luis N. Campos Jr. and Salvador A. Pleyto*).
- VI. ADJOURNMENT

Invited Guests/Agencies/Stakeholders:

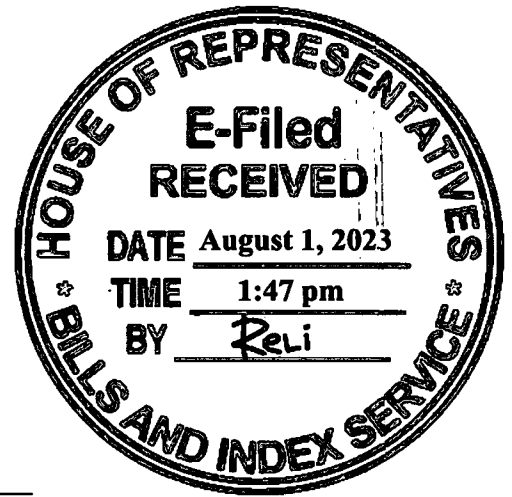
Department of Public Works and Highways (DPWH)
National Economic and Development Authority (NEDA)
Department of Finance (DOF)
Department of Budget and Management (DBM)
Bureau of Internal Revenue (BIR)
Department of Interior and Local Government (DILG)

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League of Cities of the Philippines (LCP)
Leagues of Municipalities of the Philippines (LMP)
Union of Local Authorities of the Philippines (ULAP)
San Miguel Corporation (SMC)
SM Prime Holdings (SMPH), Inc.
Chamber of Real Estate and Builders Associations (CREBA), Inc.
Subdivision and Housing Developers Association (SHDA), Inc.
Philippine Constructors Association (PCA), Inc.
Philippine Institute of Civil Engineers, Inc. (PICE)
United Architects of the Philippines (UAP)

Republic of the Philippines
HOUSE OF REPRESENTATIVES
Quezon City

NINETEENTH CONGRESS
Second Regular Session

HOUSE RESOLUTION NO. 1151



Introduced by: **REP. SALVADOR A. PLEYTO, SR.**

A RESOLUTION DIRECTING THE COMMITTEE ON PUBLIC WORKS AND HIGHWAYS TO CONDUCT AN INQUIRY, IN AID OF LEGISLATION, INTO THE STATUS OF THE IMPLEMENTATION OF REPUBLIC ACT 6716 WHICH PROVIDES FOR THE CONSTRUCTION OF WATER WELLS AND RAINWATER COLLECTORS IN ALL BARANGAYS IN THE PHILIPPINES

WHEREAS, Republic Act 6716, otherwise known as the Rainwater Collector and Springs Development Act was enacted in March 17, 1989 to provide for the construction of water wells and rainwater collectors in all barangays in the Philippines:

WHEREAS, RA 6716 further aims to prevent flooding and ensure the continuous provision of clean water during dry seasons;

WHEREAS, Section 2 of the law states that: "The Department of Public Works and Highways (DPWH) shall, within thirty (30) days after the approval of this Act, undertake the construction of water wells, rainwater collectors, development of springs and rehabilitation of existing water wells in all barangays in the Philippines in such number as may be needed and feasible, taking into consideration the population, hydrologic conditions, costs of project development and operations, financial and economic factors and institutional arrangements."

WHEREAS, with the looming water crisis in Metro Manila and the threat of the El Niño phenomenon which is likely to develop in the last quarter of this year, the need of additional water resource is highly indispensable;

WHEREAS, rainwater harvesting offers a practical and immediate solution to the need for water resource, help alleviate water shortage and drought down to the barangay level;

NOW, THEREFORE, BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that the Committee on Public Works and Highways be directed to conduct an inquiry, in aid of legislation, into the status of the implementation of Republic Act 6716.

Adopted,


SALVADOR A. PLEYTO, SR.

Republic of the Philippines
HOUSE OF REPRESENTATIVES
Quezon City, Metro Manila

NINETEENTH CONGRESS
First Regular Session

HOUSE RESOLUTION No. 906



INTRODUCED BY REPRESENTATIVE LUIS N. CAMPOS JR.

RESOLUTION URGING THE COMMITTEE ON PUBLIC WORKS AND HIGHWAYS AND THE COMMITTEE ON ECOLOGY TO JOINTLY INQUIRE, IN AID OF LEGISLATION, INTO THE INADEQUATE IMPLEMENTATION OF THE 1989 LAW THAT MANDATES THE CONSTRUCTION OF RAINWATER COLLECTORS IN ALL BARANGAYS

WHEREAS, the Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA) has warned of a looming El Niño event that will likely develop in the July-August-September 2023 season and may persist until 2024;

WHEREAS, when the Philippines endured a full-blown El Niño event in 2019, up to 61 percent of the country reeled from a harsh drought, which caused extensive farm damage and severe water shortages in Metro Manila and surrounding provinces, after dams and lakes that supply drinking as well as irrigation water experienced a massive decline in rainfall;

WHEREAS, Congress passed Republic Act No. 6716, or The Rainwater Collector and Springs Development Law of 1989, to give substance to the mandate of the 1987 Constitution for the State to protect and advance the right of the people to a balanced and healthful ecology in accord with the rhythm and harmony of nature;

WHEREAS, Section 2 of the 1989 law stipulates that: "*The Department of Public Works and Highways shall, within 30 days after the approval of this Act, undertake the construction of water wells, rainwater collectors, development of springs and rehabilitation of existing water wells in all barangays in the Philippines in such number as may be needed and feasible, taking into consideration the population, hydrologic conditions, costs of project development and operations, financial and economic factors and institutional arrangements.*";

WHEREAS, *environmental advocacy groups have questioned the poor implementation of the 34-year-old law, particularly the lack of publicly constructed rainwater collectors;*

WHEREAS, rainwater harvesting offers a practical way for communities to stockpile rainwater for use during dry spells, while potentially alleviating flooding during the wet season;

NOW, THEREFORE, BE IT RESOLVED, as it is hereby resolved, that the Committee on Public Works and Highways and the Committee on Ecology jointly conduct an inquiry, in aid of legislation, into the inadequate execution of the law that requires the construction of rainwater collectors, with a view to recommending remedial measures.

Adopted.


LUIS N. CAMPOS JR.

DRAFT



**Republic of the Philippines
HOUSE OF REPRESENTATIVES
Quezon City**

**NINETEENTH CONGRESS
Second Regular Session**

HOUSE BILL NO. _____

(In Substitution of House Bills Numbered 2412, 2553, 2753, 3862, 4441, 4837, 5027, 5640, 7786,
8148, 8957, and 9353)

INTRODUCED BY

**REPRESENTATIVES ANGELO MARCOS BARBA, ROMEO S. MOMO SR.,
ALFRED C. DELOS SANTOS, GUS S. TAMBUNTING, FERNANDO T. CABREDO,
REX GATCHALIAN, ROSANNA "RIA" V. VERGARA, CHRISTOPHERSON
"COCO" M. YAP, ROBERT ACE S. BARBERS, AUGUSTINA DOMINIQUE "DITSE
TINA" PANCHO, LUIS RAYMUND "LRAY" F. VILLAFUERTE JR., JOSEPH
GILBERT F. VIOLAGO, ARTHUR F. CELESTE, NOEL "BONG" N. RIVERA,
RICHARD I. GOMEZ, LANI MERCADO-REVILLA, BRYAN B. REVILLA, RAMON
JOLO B. REVILLA, DANNY A. DOMINGO, RALPH WENDEL P. TULFO, JOCELYN
P. TULFO, AND ERWIN T. TULFO**

AN ACT

**MANDATING THE ESTABLISHMENT AND MAINTENANCE OF A RAINWATER
HARVESTING FACILITY IN ALL NEW INSTITUTIONAL, COMMERCIAL,
INDUSTRIAL, AND RESIDENTIAL DEVELOPMENT PROJECTS NATIONWIDE**

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

1 **SECTION 1. *Short Title.*** – This Act shall be known as the "*Rainwater Harvesting Facility*
2 *Act*".

3 **SEC. 2. *Declaration of Policy.*** – It is a declared policy of the State to protect and advance
4 the rights of the people to a balanced and healthful ecology in accord with the rhythm and

1 harmony of nature. Pursuant thereto, the State shall mandate the establishment of rainwater
2 harvesting facilities to reduce flooding and devastating effects of typhoons and other rain-
3 bearing weather disturbances. It shall urge the conservation of potable water, and shall engage
4 the active participation of the public and private sector in the flood mitigating efforts and
5 initiatives of the government.

6 To this end, the State shall mandate the construction of rainwater harvesting facilities in all
7 new public and private institutional, commercial, and residential development projects
8 nationwide. Owners or developers of these development projects requiring the issuance of
9 building permits are likewise mandated to design and construct a rainwater harvesting facility to
10 prevent or delay the release of rainwater and runoff water into the drainage systems, creeks, and
11 natural waterways.

12 **SEC. 3. Purpose.** – This Act seeks to establish minimum rainwater management
13 requirements and controls to protect and safeguard the general health, safety, and welfare of the
14 public against the ill effects of flood on one hand, and water shortage on the other. This Act
15 pursues the following objectives:

16 (a) Reduction of flooding, siltation, increases in stream temperature and stream bank
17 erosion, and maintain the integrity of stream channel by regulating the accumulation of rainwater
18 runoff in any proposed and existing institutional, commercial, industrial, and residential
19 developments;

20 (b) Prevention of the degradation of water quality by averting non-point source pollution
21 caused by rainwater runoff developments;

22 (c) Regulation of the annual volume of surface water runoff from any specific site during
23 and following a development so as not to exceed the pre-development hydrologic regime in an
24 area; and

25 (d) Establishment of standards for rainwater management control to ensure that these and
26 the facilities thus built are properly complied with and do not pose a threat to public safety.

27 **SEC. 4. Definition of Terms.** – As used in this Act:

28 (a) **Applicant** – refers to a property owner or agent who has filed an application for a
29 rainwater management permit;

30 (b) **Building** – refers to any structure built for the support, shelter, or enclosure of person,
31 animals, chattels, or movable property of any kind and which is permanently affixed to the land;

1 (c) **Building Official** – refers to a local building official as appointed or designated
2 pursuant to Presidential Decree (PD) of 1096, or the National Building Code of the Philippines
3 (NBCP);

4 (d) **Building permit** – refers to a legal document issued by the building official which
5 serves as consent to begin any construction, demolition, addition, or renovation of a property;

6 (e) **Channel** – refers to a natural or artificial watercourse with definite bed and banks that
7 conducts flowing water continuously or periodically;

8 (f) **Contour interval** – refers to the vertical distance between the elevations represented
9 by adjacent contour lines on a map;

10 (g) **Contour line** – refers to a line on a map or chart connecting all points of the same
11 elevation or depth in a particular area;

12 (h) **Detention** – refers to a rainwater management practice of temporarily storing
13 rainwater runoff to control the peak discharge rate and to likewise induce settling of pollutants
14 through gravity;

15 (i) **Developer** – refers to a person or entity who undertakes land disturbance and land
16 development activities; a developer may only be contracted to develop and may or may not be
17 the owner of the development, such as a building structure being built;

18 (j) **Development** – refers to any man-made change to improved or unimproved real estate,
19 including buildings or other structures, mining, dredging, filling, grading, paving, excavations, or
20 drilling operations;

21 (k) **Flood frequency** – refers to a record of past flood events or occurrences that yield
22 flood estimates used principally to compare expected changes in flood damages with economic
23 and social cost or benefits guiding a contemplated action;

24 (l) **Hydrologic regime** – refers to the quantity and dynamics of water flow or the
25 variations in the state and characteristics of a water body depending on location and time of the
26 year, which may occur in regular patterns;

27 (m) **Infiltration** – refers to the process of percolating or gradually filtering rainwater into
28 the subsoil;

29 (n) **Institutional building** – shall mean civic building that can be funded privately or by
30 the government. It also refers to any structure that fulfills a role related to healthcare, education,
31 recreation, or public works. It shall include city, municipal and *barangay* halls, court houses,
32 judicial centers, executive and legislative buildings, police headquarters, detention facilities,

1 military bases, police and fire stations, transportation terminals, schools and universities,
2 museums, art galleries, cultural centers and the like;

3 (o) **Land disturbance** – refers to any activity which changes the volume or peak flow
4 discharge rate of rainfall from the land surface. This may include grading, digging, cutting,
5 scraping, or excavating of soil, placement of fill materials, paving, construction, substantial
6 removal of vegetation, or any activity which bares soil or rock or involves the diversion or
7 pipping of any natural or man-made watercourse;

8 (p) **Landowner** – refers to the legal or beneficial owner of land, including those holding
9 the right to purchase or lease the land, or any other person holding proprietary rights over the
10 land legally executed by the registered owner of the land;

11 (q) **Rainwater** – means the purest form of water in a form of liquid droplets that have
12 condensed or precipitates from atmospheric water vapor and then fall to the earth’s surface under
13 gravitational pull;

14 (r) **Rainwater collection** – means the capture, diversion and storage of rainwater for a
15 number of different purposes including, but not limited to, landscape irrigation;

16 (s) **Rainwater Collection System** – means a facility designed to capture, retain, and store
17 rainwater flowing off a building, parking lot, or any other manmade, impervious surface, for
18 subsequent onsite use;

19 (t) **Rainwater Design Manual** – refers to the Planning and Design Manual for the
20 Control of Erosion, Sediment and Rainwater of the Department of Public Works and Highways
21 (DPWH);

22 (u) **Rainwater harvesting facility** – refers to a flood control structure such as a vertical
23 detention tank, horizontal water tank, open retarding basin, and multi-use water catchment area,
24 or an on-site regulation pond used to prevent or delay the release of rainwater into the public
25 drainage system;

26 (v) **Rainwater management** – refers to the use of structural or non-structural practices that
27 are designed to reduce rainwater runoff pollutant loads, discharge volumes, and peak flow
28 discharge rates;

29 (w) **Rainwater runoff** – refers to water flow on the surface of the ground, resulting from
30 precipitation;

31 (x) **Rainwater treatment** – refers to a process by which collected rainwater is filtered or
32 cleaned through either structural or non-structural means to prevent or reduce point source or

1 nonpoint source pollution inputs to rainwater runoff and water bodies, as well as to upgrade
2 rainwater for re-use;

3 (y) **Recharge** – refers to the replenishment of underground water reserves;

4 (z) **Redevelopment** – refers to any construction, alteration or improvement exceeding one
5 hundred (100) square meters in high density areas where existing land use is for commercial,
6 industrial, institutional, or multi-family residential purposes;

7 (aa) **Return period** – refers to the average length of time in years for a rain-related natural
8 disaster of given magnitude to be equaled or exceeded by the length of time that a rainwater-
9 related disaster may probably recur;

10 (ab) **Surface water** – refers to all naturally occurring water found in estuaries, lakes, rivers,
11 ponds, reservoirs, ponds, seas, etc.;

12 (ac) **Watercourse** – refers to a permanent or intermittent stream or other body of water,
13 either natural or man-made, which gathers or carries surface; and

14 (ad) **Zoning certification** – refers to a permit issued by the Zoning Officer indicating that
15 the use of the building or lands is in conformity with the Zoning Ordinance or that there has been
16 a legal variance therefrom.

17 **SEC. 5. Rainwater Harvesting Facility Requirement.** – An owner or developer of a new
18 institutional, commercial, industrial, or residential development project shall incorporate in its
19 building plan a rainwater collection system consistent with the purpose of this Act.

20 It is hereby prescribed that all new government buildings shall incorporate in their design a
21 rainwater harvesting facility and facility for storage. It is also prescribed that such rainwater
22 harvesting and storage facilities shall be constructed in all old government buildings.

23 The DPWH, through its attached agencies, shall install a rainwater treatment facility in all
24 new government institutional buildings. The Department of Health (DOH) shall supervise the
25 filtration and purification processes to ensure that the rainwater is safe for drinking.

26 The rainwater treatment facility or device shall be regularly monitored and evaluated by
27 the DPWH, in coordination with the DOH and the Department of Environment and Natural
28 Resources (DENR), through the local government units (LGUs) concerned.

29 To conserve potable water, rainwater collected by a harvesting facility may be used for
30 non-potable and suitable purposes, such as gardening and air-cooling processes.

31 **Sec. 6. Requirements for Rainwater Management Plan.** – All project owners or
32 developers of proposed commercial, industrial, and residential development or any residential

1 multi-dwelling units of more than one thousand square meters (1,000 sqm) land area must submit
2 a Rainwater Management Plan (RMP) as part of the site development application and approval
3 process.

4 The RMP shall include the following information:

5 (a) Description of existing conditions in the location of the development site:

6 i. Topographic map with 1.0 meter minimum contours line or an appropriate
7 contour interval of the land proposed for development or redevelopment;

8 ii. Location of natural waterways including banks and centerline of streams and
9 channels;

10 iii. Normal shoreline, coastlines, outline of lakes, natural depressions and ponds,
11 including drainage flow lines; and

12 iv. Quantification of flows (discharge and volume) in its natural condition.

13 (b) Proposed Site Development Plan (SDP) in an appropriate scale and size showing the
14 following:

15 i. Retention/detention basins and lines of inflow and outflow;

16 ii. Location, size and slope of rainwater conduits and drainage swales;

17 iii. Rain, sanitary and combined sewer and outfalls;

18 iv. Delineation of upstream and downstream drainage features and watersheds which
19 might be affected by the development; and

20 v. Other environmental features including limits of wetland areas, green buffers,
21 planting strips, and any designated natural areas for rainwater management.

22 (c) Description of the Proposed Rainwater Management System (RMS) to safely and
23 completely manage rainwater runoff onsite or offsite, help maintain the natural hydrologic cycle
24 and condition of flow in a locality and reduce the risk of downstream flooding.

25 The proposed RMS shall be accompanied by hydrologic and hydraulic calculations to
26 adequately demonstrate the effectiveness of the RMP. It shall be designed to meet the desired
27 flood frequency which is designed to a particular drainage structure as stated in the Design
28 Manual of the DPWH; *Provided*, That a 25-year flood frequency or higher may be required for
29 major rivers and waterways, subject to the design criteria in Section 9 of this Act.

30 The RMP shall be accompanied by relevant information such as rainfall data in a locality,
31 maps, and other descriptive material to include the following:

1 (a) The extent of catchment and drainage channels on site, and direction of the flow of the
2 channels including the final outfall of the discharge from the site;

3 (b) Hydrologic and hydraulic design calculations for the predevelopment and post-
4 development conditions of a RMS as required under Section 9 hereof. The calculations for
5 determining peak flows include a description of storm frequency, intensity, duration, time of
6 concentration, soil curve number or runoff coefficients, peak runoff rates and total runoff
7 volumes, infiltration rates, culvert capacities, flow velocities, data on the increase in rate and
8 volume of runoff for the design storm; and

9 (c) Technical specifications of the proposed RMS, including a description of proposed
10 rainwater conveyance practices on-site, existing off-site rainwater conveyance systems including
11 receiving streams, channels, and outfall inlet locations, and elevations of locations and high-
12 water elevations.

13 **Sec. 7. Chemicals, Effluents, and other Contaminants.** – Prior to the issuance of a
14 building permit for their development or re-development, all industrial plants and estates shall
15 secure the appropriate certification from the DENR that all chemicals used in their operations,
16 their by by-products effluents, and other operational discharges do not contain harmful
17 contaminants that can be washed by or into the rainwater.

18 The type of roofing must also be identified and assessed if used for collecting rainwater as
19 some roofing materials may seep chemicals that can cause adverse effects if ingested, used in
20 irrigation, fishponds, groundwater recharge, among others.

21 **Sec. 8. Utilization of Rainwater.** – Rainwater shall be harvested for the following uses:

22 (a) **Rainwater for urban irrigation** – Due to the high cost of Class A water, its use for yard
23 irrigation shall be minimized if not prohibited and instead, water for irrigation shall come from
24 the rainwater detention system.

25 Rainwater as a source of urban irrigation or watering of lawns shall be indicated in all
26 development plans. Treated grey water from effluent of treatment facility may be a secondary
27 source of water for urban irrigation.

28 (b) **Rainwater for underground recharge** – The RMS is intended mainly to ensure the
29 natural balance of hydrologic cycle by allowing rainwater to recharge the groundwater table that
30 sustains the yield and production of wells. Groundwater table recharging may be in the form of
31 the following management systems:

- 1 i. Lagoons or retention pond that allows for natural seepage to the ground water
- 2 aquifer;
- 3 ii. Swales and depression storage;
- 4 iii. Porous or paver blocks on some developed areas; and
- 5 iv. Retention channels.

6 The sizes and dimension of any of the above facilities shall be dependent on the rainfall
7 intensity and the size of the development.

8 (c) **Rainwater for firefighting** – Rainwater may be substitute or augment the firefighting
9 requirement, subject to health and corrosion standards. A separate storage tank for fire water
10 reserve shall be constructed. Other laws concerning the requirement of water for firefighting
11 shall be considered.

12 (d) **Rainwater for construction** – Simple filtration systems and other applicable methods to
13 remove suspended solids and other course materials may be employed to improve water quality
14 and avert adverse effects to construction equipment and the environment.

15 (e) **Rainwater for other non-potable water supply** – Rainwater shall be subjected to
16 primary and secondary treatment to make it a viable secondary source for the following purposes:

- 17 i. Washing of cars, floor yards;
- 18 ii. Flushing of toilet (water quality should meet certain standards to avoid discoloration
19 of fixtures); and
- 20 iii. Fish ponds, aquariums and the like.

21 (f) **Rainwater for potable uses** – To make it potable, rainwater may be collected, processed,
22 subjected to filtering innovations or technological interventions and used for drinking, cooking,
23 dishwashing, and bathing, subject to water standards.

24 Potable water quality shall at all times comply with the requirements and standards of the
25 Philippine National Standard for Drinking Water (PNSDW).

26 (g) **Rainwater for ecological requirements** – Seasonal fluctuation of rainfall affects the
27 rain flora and fauna of waterways. Rainwater runoff shall therefore be managed properly to
28 allow steady release of water to waterways, thus ensuring the continued supply of water.

29 **Sec. 9. Preparation of the Rainwater Design Manual.** – The DPWH shall prepare the
30 Rainwater Design Manual (RDM) which must provide, among others, information on the
31 following: (1) conveyance system of the rainwater harvesting facility, (2) make of the rainwater
32 retention facility, (3) management of rainwater discharge to control flooding, (4) protection of

1 the local water bodies from pollution through rainwater discharge treatment, (5) dike or bank
2 protection for water bodies receiving rainwater discharge, and (6) utilization options for
3 collected rainwater.

4 The RDM shall contain the following guidelines:

5 (a) All sites shall establish a RMS to control the peak flow rates of rainwater discharge
6 and to allow RMS facility to treat collected rainwater for both quality and quantity. Peak post-
7 construction rainwater runoff should not exceed peak pre-construction rainwater runoff from the
8 site to the greatest extent possible;

9 (b) All rainwater runoff generated from any development shall not discharge untreated
10 rainwater directly into a jurisdictional wetland or local water body without adequate treatment;

11 (c) A structural and non-structural Rainwater Treatment System (RTS) shall be designed
12 to treat the first 20 millimeter of rainwater runoff;

13 (d) Thus, for every one (1) hectare or new development, a 200 cubic meter detention or
14 retention tank shall be constructed to minimize flooding and improve water quality. Sanitary
15 wastewater treatment facilities shall be designed and installed to comply with existing health
16 regulations and the effluent standard of the DENR;

17 (e) Untreated sanitary waste shall not be discharge to waterways and land surface without
18 proper treatment and shall not come in contact with rainwater runoff. The discharge of treated
19 effluent to water bodies shall be in accordance with the river classification. For unclassified
20 rivers and water courses, effluents should meet the Class C water category. To be discharged to
21 an urban drainage system, effluents should meet the Class D water category. In all cases, the
22 prescription provided by the DENR shall be followed;

23 (f) To protect stream channels from degradation, the velocity of runoff water shall be
24 limited to less than 1.0m/s, otherwise, bank protection shall be provided;

25 (g) Rainwater discharges to critical areas with sensitive resources (including shellfish beds,
26 swimming areas, water supply reservoirs and groundwater recharge areas) may be subject to
27 additional performance criteria and management restrictions;

28 (h) Rainwater discharges from land uses or activities with higher potential pollutants
29 loadings, known as "hotspots," must be in accordance with the specific structural and pollution
30 prevention practices;

31 (i) Rainwater storage and draining systems must be secured from mosquito breeding and
32 those of other similar insects that may endanger public health;

1 (j) Prior to designing the RDM, an applicant for a building permit must consult with the
2 Building Official to determine compliance with additional rainwater design requirements;

3 (k) For existing development or developed areas, the RMS requirement must be imposed
4 on the following conditions:

5 i. The total storage volume of rainwater may be the cumulative volume stored from
6 various source such as cistern, lagoon onsite or offsite, and a depression storage; and

7 ii. That at least 50% of the required volume shall be met within five (5) years from
8 the effectivity of this Act.

9 The DPWH, Department of Human Settlements and Urban Development (DHSUD),
10 DENR, and LGUs shall require the incorporation of a RMS in the design of all new commercial,
11 institutional, industrial, and residential development projects in Metro Manila. The LGUs shall
12 ensure that these facilities are built during the construction phase of the projects.

13 In formulating the design manual, the DPWH shall consult the experts of the PAGASA and
14 DENR on requirements that entail scientific bases or study.

15 **SEC. 10. *Design Approval.*** – The provision for a rainwater harvesting facility shall be
16 required by DHSUD and LGUs to be incorporated in the design of all new commercial,
17 institutional, and residential development projects nationwide and no project design shall be
18 approved for construction unless it includes such facility. The DHSUD and the LGUs shall
19 ensure that these facilities are built during the construction phase of the projects.

20 The DPWH shall not approve designs of public buildings that do not contain rainwater
21 harvesting and storage facilities. The Department shall also ensure that these are included in the
22 actual construction of buildings.

23 **SEC. 11. *Design Requirements.*** – The rainwater harvesting facility must be designed by a
24 registered civil engineer to cope with a pre-determined flood and rain return period and must
25 have a storage capacity prescribed by the DPWH. The design of the rainwater harvesting facility
26 shall include the following:

27 (a) Size, shape, and physical characteristics of available space;

28 (b) Construction plans with specified material type, including lining and coating
29 requirements;

30 (c) Detailed drawing on how the installation will drain into an outfall structure such as a
31 dry well or percolation chamber, storm drain system, drainage channel, or natural wash; and

32 (d) Mechanism to exclude mosquitoes and not permit mosquito production.

1 **SEC. 12. *Building Permits.*** – If the design of a new commercial, institutional, and
2 residential development project with an area of at least one thousand five hundred (1,500) square
3 meters does not provide for a rainwater harvesting facility, the LGU concerned shall deny the
4 request for issuance of a building permit for such project.

5 **Sec. 13. *Construction Inspection.*** –

6 (a) The applicant for a building permit must notify the concerned building official in
7 advance before the commencement of construction;

8 (b) All applicants for building permit for commercial buildings and multi-family
9 residential building over four (4) units are required to submit actual drawings of the rainwater
10 management facilities located on-site after final construction. The rainwater facility plan must
11 show the final design specifications for all rainwater management facilities and must be certified
12 by a licensed engineer. A final inspection of the rainwater facility is required before the release
13 of any performance security, performance bond, or guaranty between the owner or developer and
14 the contractor or builder;

15 (c) The City or Municipal Engineer shall inspect all drainage facilities while under
16 construction. When facilities are not constructed according to approved plans, the LGU shall
17 require the project owner or developer to make necessary corrections. All drainage facilities,
18 whether or not these are owned by or assigned to the LGU, located on private property, shall be
19 accessible at all times for inspection by the City or Municipal Engineer or other responsible
20 public official; and

21 (d) The City or Municipal Engineer shall inspect all sanitary waste treatment facilities
22 while under construction of building and upon completion to insure proper installation and
23 connection to waste water collection systems when applicable. The City or Municipal Engineer
24 shall ensure that sanitary waste treatment facilities are properly functioning before issuing the
25 required certificate of occupancy.

26 Any contracted architect or civil engineer employed by the owner or developer to plan and
27 supervise the construction of the facility shall not be precluded from inspecting the construction
28 work to check and determine compliance with the plans and specifications of the building,
29 pursuant to the provisions under Inspection and Supervision of Work or Section 308 of the
30 National Building Code of the Philippines.

31 **SEC. 14. *Issuance of Certification.*** — The LGU concerned through its building official, or
32 in the absence of an Office of Building Official (OBO), the city or municipal engineering office,

1 after proper inspection, shall issue a certification that the owner of an existing institutional,
2 commercial, industrial, and residential building has installed a rainwater collection system in the
3 property. Such certification can be used as proof for tax credit purposes.

4 **Sec. 15. *Maintenance and Repair of Rainwater Facilities.*** – The owner or developer is
5 expected to perform regular maintenance and repair of the rainwater facility whenever necessary
6 to make sure that this is in working condition, safe for public use and the environment. At the
7 minimum, the following must be undertaken, (1) visual inspection and cleaning of the facility
8 after major rain events, (2) regular clearing of all sediments, silts, and debris, (3) drainage clean-
9 up, and (4) replacement of filters and insect screens as necessary.

10 In addition, the owner or developer shall comply with the following requirements:

11 (a) All rainwater management facilities must undergo a yearly or regular inspection
12 process at a frequency sufficient to determine the functioning ability of the conveyance system
13 and any repair needs; this shall include inspection prior to the beginning of the typhoon season or
14 any forecasted major rains that may equal the design requirements, and after any major rain
15 events;

16 (b) All drainage and sanitary waste treatment facilities located on private property
17 whether dedicated to the LGU or not, shall be accessible at all times for inspection by the OBO,
18 or in the absence of an OBO, the City or Municipal Engineer or other responsible public officials
19 especially where there is reason to inspect that a malfunction has resulted in rainwater runoff
20 pollution by unsanitary wastes;

21 (c) Depending on the type of facility, mosquito or insect screens must be replaced as
22 necessary to avoid infestation or breeding grounds for pathogens;

23 (d) Parties responsible for the operation and maintenance of a rainwater management
24 facility shall make and keep records of the installation, maintenance, and repairs, and shall retain
25 these records for at least five (5) years. These records shall be made available to the city or
26 municipality during inspection of the facility and other reasonable times upon request; and

27 (e) The concerned building official shall notify the owner of a rainwater facility in writing
28 that maintenance work is required on it. The owner will have sixty (60) days from the receipt
29 thereof to ensure that the facility is in proper working condition.

30 **SEC. 16. *Reportorial Requirements.*** – The DPWH shall require the owner or developer of
31 all new institutional, commercial, industrial, and residential development projects covered under

1 this Act to submit a compliance report within 12 months from the date of the completion of the
2 project.

3 The DPWH shall, henceforth, require the building owners to submit an annual report of the
4 performance of such rainwater retention facility which may include, but is not limited to
5 information on the total volume of retained rainwater and its utilization.

6 **SEC. 17. Penalties.** – The owner or developer of all new institutional, commercial,
7 industrial, and residential development projects who fails to construct a rainwater harvesting
8 facility in violation of Section 5 of this Act shall suffer the penalty of a fine of Two Million
9 Pesos (P2,000,000.00) for every year of non-compliance. The OBO shall not issue an occupancy
10 permit to and shall cancel the business permit of the owner or developer of the development
11 project.

12 In the case of a partnership, association, corporation, or any juridical person, the fine shall
13 be imposed upon the president, treasurer, or any other officer or person responsible for the
14 violation.

15 If the offender is a foreigner, the foreigner shall be deported immediately without further
16 proceedings after payment of a fine.

17 The head of the government institution who violates Section 5 of this Act, or government
18 officials, employees, and agents who issue licenses or permits in violation of this Act, shall
19 suffer the penalty of suspension of not less than ten (10) days, but not more than one hundred
20 eighty (180) days after due notice and hearing in an appropriate administrative proceeding.

21 **SEC. 18. Tax Incentives.** — To encourage the public to promote the installation of
22 rainwater collection system, the owner of an existing residential or commercial building who
23 install a rainwater collection system in his/her property shall be entitled to a tax credit of 10%
24 but not exceeding Ten Thousand Pesos (P10,000.00) of the total real property tax of the said
25 property for a period of two (2) years.

26 **Sec. 19. Obligation of the Relevant Agencies.** — The DPWH, DENR, DHSUD, PAGASA,
27 LGUs, their sub-agencies, and subsidiaries are mandated to provide full assistance to every
28 project owner or developer covered in this Act in order that the requirements and standards
29 prescribed herein may be properly executed in the design and construction of rainwater
30 harvesting facilities. Agency assistance shall include proper advice, technical guidance,
31 provision for needed data and facilitation of required documents. As much as practicable, all
32 technical and documentation requirements must be at zero to minimal cost to the applicant

1 project owner or developer who shall establish, manage, and maintain a rainwater harvesting
2 facility.

3 **SEC. 20. *Implementing Rules and Regulations.*** – Within sixty (60) days from the
4 effectivity of this Act, the Secretary of Public Works and Highways, in coordination with the
5 Secretaries of Interior and Local Government, Human Settlements and Urban Development, and
6 Science and Technology, shall promulgate the rules and regulations for the effective
7 implementation of this Act. The implementing rules and regulations shall include the standards
8 and guidelines for the design, construction, installation, materials, sites election and planning,
9 site-specific considerations, and maintenance of the rainwater harvesting facility.

10 **SEC. 21. *Separability Clause.*** – If any provision or part of this Act is declared invalid or
11 unconstitutional, the remaining parts or provisions not affected shall remain in force and effect.

12 **SEC. 22. *Repealing Clause.*** – All other laws, rules and regulations, orders, circulars, and
13 other issuances or parts thereof, which are inconsistent with the provisions of this Act are hereby
14 repealed or amended accordingly.

15 **SEC. 23. *Effectivity Clause.*** – This Act shall take effect fifteen (15) days after its
16 publication in the Official Gazette or in a newspaper of general circulation.

17 *Approved,*