



**REPUBLIC OF THE PHILIPPINES**  
Department of Budget and Management  
Climate Change Commission  
Department of the Interior and Local Government

**JOINT MEMORANDUM CIRCULAR No. 2015-01**  
**Date: July 23, 2015**

**FOR :** ALL PROVINCIAL GOVERNORS, CITY AND MUNICIPAL MAYORS, PRESIDING OFFICERS AND MEMBERS OF THE SANGGUNIANs, LOCAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCILS, LOCAL FINANCE COMMITTEES, AND ALL OTHERS CONCERNED

**SUBJECT :** REVISED GUIDELINES FOR TAGGING/TRACKING CLIMATE CHANGE EXPENDITURES IN THE LOCAL BUDGET (AMENDING JMC 2014-01, DATED AUGUST 7, 2014)

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The Philippines is considered as one of the most vulnerable countries to climate change. Impacts range from extreme weather events (such as Yolanda and Ondoy), sea level rise, increase in average temperature, drastic changes in rainfall patterns, and drought that can severely affect the country's food security, water sufficiency, human settlements, among others.

Anchored on the Climate Change Act (CCA) of 2009 and the National Climate Change Action Plan (NCCAP), the Climate Change Expenditure Tagging (CCET) supports mainstreaming of climate change adaptation and mitigation into the planning process of local government units (LGU), and provides the starting point from which to measure progress in the implementation of climate change initiatives.

Building on the lessons learned from the national and pilot implementation of the Tagging/Tracking Climate Change Expenditures in the Local Budget for FY 2015, the previously issued Joint Memorandum Circular (JMC) 2014-01 issued by the Department of Budget Management (DBM), Climate Change Commission (CCC), and the Department of the Interior and Local Government (DILG) is hereby amended. Amendments to the previously issued JMC 2014 01 include the following:

- Submission by the local government unit (LGU) of electronic copy of their climate change (CC) expenditure tagged Annual Investment Program (AIP) directly to the CCC, in addition to their submission to the DBM and DILG during the budget preparation process;
- Transferring the responsibility of operating the CCET helpdesk from the DILG to the CCC;



- Streamlining the CC typologies by simplifying, consolidating, and eliminating redundant typologies to be consistent with the national typologies; and
- Introduction of the Quality Review and Assurance (QAR) tool to ensure the quality of the climate change expenditure data.

## **1.0 LEGAL BASES**

- 1.1 The Philippine Climate Change Act of 2009 (Republic Act 9729) seeks to mainstream climate change in various phases of policy formulation, development plans, poverty reduction strategies, and other development tools and techniques by all units of government. Section 14 of the Act recognizes that LGUs are the frontline agencies in the formulation, planning, and implementation of Local Climate Change Action Plans (LCCAP) in their respective areas, consistent with the provisions of the Local Government Code, the Framework, and the National Climate Change Action Plan.
- 1.2 The Philippine Disaster Risk Reduction and Management Act of 2010 (Republic Act 10121) Section 2 (g) provides that disaster risk reduction and climate change need be mainstreamed in development processes while Sec 12 (c) 6 requires LGUs to formulate and implement a comprehensive and integrated Local Disaster Risk Reduction Management Plan (LDRRMP) in accordance with the national, regional, and provincial framework and policies on disaster risk reduction.
- 1.3 The DBM issued Local Budget Memorandum (LBM) No. 68 which asks LGUs to submit, together with the General Annual Budget, their respective Local Disaster Risk Reduction Management Plans and Local Climate Change Action Plans and encourages LGUs to identify, prioritize, and tag their respective P/A/Ps for climate change and to tag and track all climate change expenditures to help ensure transparency and increase effectiveness of climate change expenditures.
- 1.4 The amended JMC to guide the LGUs, is consistent with the issued JMC 2015-01 issued by DBM-CCC for national government agencies.

## **2.0 PURPOSE**

- 2.1 To identify, prioritize, and tag climate change programs, activities, and projects (P/A/Ps) by all departments and offices of LGUs;
- 2.2 To take stock of climate change P/A/Ps and to track and report climate change expenditures of LGUs; and
- 2.3 To clarify and spell out responsibilities among LGUs, DBM, CCC, and DILG relative to the tagging of climate change expenditures in the Annual Investment Program of LGUs.



### 3.0 DEFINITION OF TERMS

- 3.1. Climate Change – a change in climate that can be identified by changes in the mean and/or variability of its properties and that persists for an extended period typically, attributed directly or indirectly to human activity that alters the composition of the global atmosphere and is in addition to natural climate variability observed over comparable time periods (United National Framework Convention on Climate Change).
- 3.2. Climate Change Adaptation – a response can be classified as adaptation if it intends to reduce the vulnerability of humans or natural systems to the impacts of climate change and climate-related risks, by maintaining or increasing adaptive capacity and resilience.
- 3.3. Climate Finance- resources that have been allocated or may be utilized towards the climate change adaptation and mitigation requirements of the country and its vulnerable communities.
- 3.4. Climate Information - includes baseline observed data, climate trends, variability and higher order statistics, extremes, inter-annual variability, and inter-decadal variability, for both the past and projected future climate. It also includes associated information to interpret and use these data.
- 3.5. Climate Change Mitigation - response aimed at reducing greenhouse gas (GHG) emissions, directly or indirectly, by avoiding or capturing GHG before they are emitted to the atmosphere or sequestering those already in the atmosphere by enhancing "sinks" such as forests.
- 3.6. Climate-Related Risks- are risks variables in the climate/weather system that affect human life adversely. This relates to extreme values of the climate or weather variables: high wind speed (storm), high river water staged (flood), low water stages (drought). This also includes slow onset changes in temperature and precipitation leading to drought.
- 3.7. P/A/Ps - refers to programs/activities/projects of the LGU department or office as presented in the respective AIPs.
- 3.8. Preparatory activities - are climate change-related activities which shall include but not be limited to vulnerability and impact assessment studies, climate change and variability researches, climate modeling, capacity building, and policy formulation.
- 3.9. Resilience- the ability of social or ecological system to absorb disturbances while retaining the same basic structure and ways of functioning and capacity for self-organization and to adapt to stress and change.
- 3.10. Risk - the concept combines the magnitude of the impact (a specific change in a system caused by its exposure to climate change) with the probability of its occurrence (IPCC 4<sup>th</sup> Assessment Report, Working Group II, Appendix I).
- 3.11. Vulnerability - the degree to which geophysical, biological and socio-economic systems are susceptible to, and unable to cope with adverse impacts of climate change.



## 4.0 GUIDELINES

- 4.1 In minimizing the risks associated with climate change, LGUs are encouraged to intensify efforts in the implementation of programs, activities and projects to improve the resilience of their localities. LGUs are encouraged to increase their budgetary allocations for basic services and facilities responsive to climate change to improve the adaptive capacity of their communities and reduce the adverse impacts of climate change, chargeable to local funds. All climate change-related strategies and investments of the LGUs in the Annual Investment Program shall be identified as follows:
  - 4.1.1 Adaptation responses
    - 4.1.1.1 Measures that address the drivers of vulnerability. Vulnerability is the degree to which people or systems are susceptible to the adverse effects of climate change but are unable to cope with them. It depends both on the exposure to the climate hazard and the sensitivity and coping capacity of the people and systems. Vulnerability can be decreased by reduced exposure (e.g. shifting population or assets to less risky areas through zoning regulations) or by increasing coping capacity (e.g. well targeted poverty reduction, income and livelihood diversification, health programs and dissemination of climate risk information).
    - 4.1.1.2 Measures that directly confront climate change impacts. These types of expenditures directly address the impacts or potential impacts of climate change variability such as construction of infrastructures that incorporate climate change risks in the design or P/A/Ps implemented to minimize impacts from climate change risks.
    - 4.1.1.3 Measures that build resilience to current and future climate risks. Building resilience means increasing the capacity of the social or ecological system to reach or maintain an acceptable level of functioning or structuring while undergoing changes. Expenditures in this category shall include but are not limited to reducing land degradation, reforestation programs, upgrading of existing roads to climate resilient design standards, utilization of climate resilient crop varieties or farming techniques, installation of effective early warning systems, and other investments specifically designed to respond to projected climate changes and variability.
  - 4.1.2 Mitigation responses
    - 4.1.2.1 Measures to reduce greenhouse gas emissions such as but not limited to improved energy efficiency, use of renewable energy, improved forest management, and improved transport systems.
    - 4.1.2.2 Measures to protect and enhance greenhouse gas sinks and reservoirs such as but not limited to Bantay Gubat, Bantay Bakawan, and reforestation.
- 4.2 LGUs shall tag P/A/Ps in their Annual Investment Programs in accordance with those listed in the Climate Change Expenditure Typology (Annex A). LGUs will be guided by the QAR (Annex C) in the evaluation and finalization of the P/A/Ps that were tagged.
- 4.3 LGUs shall estimate and record the climate change expenditures for each tagged P/A/P in the Annual Investment Program as follows:




- 4.3.1 Include the entire cost of the P/A/P as CC expenditure if the Program/Project Profile indicates that the primary goal/objective of the P/A/P is to provide a direct adaptation or mitigation response.
  - 4.3.2 If climate change adaptation or mitigation is not a primary P/A/P goal/objective, include only the cost of the specific components of the P/A/P that match those listed in Annex A.
- 4.4 LGUs that do not have any P/A/Ps that can be tagged as climate change adaptation/mitigation can tick the *'No climate change expenditure'* in the AIP Form.

## **5.0 ROLES AND RESPONSIBILITIES**


- 5.1 Provinces, cities, and municipalities shall:
- 5.1.1 Ensure that climate change is integrated in the budget call issued by the Local Chief Executive (LCE);
  - 5.1.2 Identify climate change expenditures in their Annual Investment Programs using the Climate Change Expenditure Typologies as guide;
  - 5.1.3 Tag identified climate expenditures in their Annual Investment Programs using the revised AIP Form (Annex B);
  - 5.1.4 Accomplish and submit to DILG and DBM the list of tagged climate change P/A/Ps during the annual submission of budget proposals;
  - 5.1.5 Submit an electronic copy of the tagged AIP using the AIP Form and accomplished QAR (Annex C) to the CCC at [lguhelpdesk@climate.gov.ph](mailto:lguhelpdesk@climate.gov.ph);
  - 5.1.6 Ensure the integration of climate change P/A/Ps in the LGU budget proposals of departments during the technical budget hearings of the Local Finance Committee (LFC) and the LCE; and
  - 5.1.7 For P/A/Ps that do not qualify under the Climate Change Typologies listed in Annex A, request CCC to create a new typology through the CCET help desk.
- 5.2 Department of Budget and Management shall:
- 5.2.1 Include in the Local Budget Memorandum the tagging of climate change expenditures in the AIP and changes and developments in related policies; and
  - 5.2.2 Include the CCET and the revised AIP Form in the updating of the Budget Operations Manual for LGUs.
- 5.3 Climate Change Commission shall:
- 5.3.1 Assess and ensure the quality of the climate tagging of the AIP against the climate change expenditure typology listed in Annex A and duly accomplished QAR Form;

- 5.3.2 Provide a help desk to provide LGUs with information and support related to CCET;
  - 5.3.3 Review and approve LGU requests for new climate typologies; and streamline the typologies when necessary; and
  - 5.3.4 Review and consolidate CC tagged AIPs submitted by LGUs and monitor developments in coordination with oversight agencies and stakeholders.
- 5.4 Department of the Interior and Local Government shall:
- 5.4.1 Provide continuous capacity building programs for LGUs to institutionalize and sustain CCET in LGU annual investment programming and budget planning processes, in partnership with DBM and CCC; and
  - 5.4.2 Monitor compliance by LGUs.

**6.0** For immediate compliance by all LGUs starting FY2016.



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DILG-OSEC OUTGOING 15-02250



Annex A: Climate Change Typologies (LGUs)

Strategic Priority 1 - Food Security			
1 - Agriculture and Livestock			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A111-01	Incorporate climate change and climate variability considerations in policies and institutions	M111-01	Enact/Implement ordinances and policies to reduce the emissions of greenhouse gases (GHGs), or absorption of GHGs in the agricultural sector
A111-02	Regulate commodity shifting and agricultural land conversion*	M111-03	Monitor carbon sequestration
A111-03	Design and implement climate change risk transfer and social protection mechanisms in agriculture and fisheries*		
A111-04	Incorporate risks from climate change and climate variability in irrigation/water management planning		
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A112-01	Conduct agricultural vulnerability and risk assessments, impact assessments and simulation models on major crops and livestock *	M112-01	Develop, test and introduce practices or techniques that reduce GHG emissions and practices or techniques to sequester carbon dioxide (CO <sub>2</sub> ) in crop production systems, animal husbandry systems, forest management systems and aquaculture management systems
A112-02	Develop, test and popularize climate-resilient crop and livestock production systems and technologies*	M112-02	Sector studies, surveys, assessments on energy and water use efficiency in agriculture
A112-03	Research on new threats to agriculture, fishing, and forestry from CC and CV		
A112-04	Produce and distribute climate resilient rice varieties		
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A113-01	Awareness raising of risks from climate change, or/and benefits of adaptation*	M113-01	Establish or strengthen institutions, information systems and capacity building on energy and water use efficiency in agriculture sector
A113-02	Establish climate information systems and database/resource network for agriculture and fisheries sectors*		
A113-03	Establish and/or popularize farmers' field school/climate field school to demonstrate best adaptation practices*		
A113-04	Develop formal and non-formal training programs on climate change adaptation (CCA) and disaster risk reduction (DRR)*		
A113-06	Conduct of non-farm entrepreneurial courses		
A113-07	Conduct Slope Agriculture Land Technology (SALT) training and other soil conservation measures in sloping lands for farmers		
A113-08	Improve the adaptive capacity of farmers and fisherfolk through the provision of relevant technologies and information		

CC – Climate Change  
GHG – Greenhouse Gases

CV – Climate Variability

\*Activities under the NCCAP



Annex A: Climate Change Typologies (LGUs)

Code	4 - Service Delivery	Code	4 Service Delivery
A114-01	Establish early warning systems for agriculture*	M114-01	Integrated organic and inorganic nutrient management
A114-02	Introduce or expand soil management practices that control soil erosion, nutrient loss and improve the water regime in the soil profile	M114-02	Switch to soil management techniques that reduce GHG emissions or increase carbon sequestration
A114-03	Introduce or expand use of crops or crop mix more suited to climate change and climate variability	M114-03	Intensify or expand farm and fodder production using techniques that reduce GHG emissions or increase carbon sequestration
A114-04	Reduce vulnerability of crop storage facilities and irrigation systems to climate change and climate variability*	M114-04	Manure management and methane capture in animal husbandry
A114-05	Construct/Repair/Rehabilitate national and communal irrigation systems, dams and water storage systems to manage changes in the water cycle due to climate change and climate variability*	M114-05	Change forage systems to reduce ruminant methane emissions
A114-06	Introduce weather or climate indexed insurance programs (e.g. crop insurance)	M114-06	Introduce or expand water pumping for irrigation using renewable energy sources
A114-08	Change management practices or techniques to reduce vulnerability to climate change and climate variability in animal health service, pasture management, fodder production and storage practices	M114-07	Replace existing water pumps with more energy efficient pumps
A114-09	Develop innovative financing mechanisms to provide seed capital for the implementation of CCA among farmers and fisherfolks organization*	M114-08	Implement agricultural and fisheries waste recycling and composting*
A114-10	Construct water impounding dams, rainwater harvesting facilities for irrigation, and water storage systems to manage changes in the water cycle due to CC and CV	M114-09	Switch to less water intensive crops
A114-11	Construct crop storage facilities that consider climate change and variability	M114-10	Establish communal school gardens, and other community gardens for local consumption
A114-12	Promote agro-forestry such as cacao/ coffee/rubber production and seedling distribution		
A114-13	Establish Integrated Pests Management		
A114-14	Develop climate resilient livestock production system and technologies		



## Annex A: Climate Change Typologies (LGUs)

Strategic Priority 1 - Food Security			
2- Fisheries			
FY2016	1 - Policy Development and Governance	FY2016	1 - Policy Development and Governance
A121-02	Formulate/implement ordinances on reversion of abandoned fishponds back to mangroves*	M121-01	Formulate/implement ordinances to reduce the emissions of GHGs, or absorption of GHGs in the fishing sectors
A121-03	Harmonize climate change adaptation plans in local resource management and local fisheries development*	M121-02	Develop ordinances to reduce municipal fishing boats/improve fuel efficiency of municipal fishing boats
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A122-01	Conduct of provincial-level vulnerability and risk assessments for fisheries*		
A122-02	Conduct researches on best practices in fisheries and coastal climate change adaptation, technologies and tools*		
A122-04	Develop and/or update climate change R&D agenda for fisheries sectors*		
A122-05	Promote fish farming and aquaculture practices or techniques to reduce vulnerability to CC&CV (i.e. due to changes in water quality or variation in fishing season).		
A122-06	Establish climate information systems and database for fisheries sector*		
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A123-01	Establish a resource network / information system and database on climate change and fisheries*	M123-01	Establish or strengthen institutions, information systems and capacity building on energy and water use efficiency in fishing sector
FY2016	4 - Service Delivery	FY2016	4 - Service Delivery
A124 02	Establish early warning systems for fisheries*		

Strategic Priority 2 - Water Sufficiency			
1 – Water Supply			
FY2016	1 - Policy Development and Governance	FY2016	1 - Policy Development and Governance
A211-01	Develop ordinances, policies and guidelines for water conservation, allocation, recycling and reuse*	M211-01	Sector reform to improve water use efficiency to reduce energy use for pumping water (e.g. water pricing)
A211 02	Review and streamline existing water resources management and institutional structure and policies*		
A211-03	Develop and implement a comprehensive ground water management program that includes vulnerability assessment*		
A211-04	Develop public financing mechanism for water supply infrastructures rehabilitation and development*		
A211-05	Incorporate risks from climate change and climate variability in water, sanitation and flood protection planning		

CC – Climate Change  
GHG – Greenhouse Gases

CV – Climate Variability

\*Activities under the NCCAP



Annex A: Climate Change Typologies (LGUs)

A211-06	Review financing, tariffs, and system of incentives to reflect the full cost of providing safe water*		
FY2016	2 - Research, Development and Extension	FY2016	2 - Research, Development and Extension
A212-01	Study "low cost, no regrets" adaptation measures and technologies under various hydrologic conditions, supply-demand conditions, and policy scenarios for surface and groundwater systems*	M212-01	Administration, sector studies, surveys, assessments, information systems and capacity building for energy and water use efficiency in water, sanitation and flood protection
A212-02	Define areas not suitable for large water infrastructure development and settlements based on vulnerability assessment*		
A212-03	Conduct ground water resource vulnerability and recharge areas assessment in water stressed cities*		
A212-05	Identify alternative water sources and demand management especially for urbanized areas that rely on reservoirs and are prone to recurrent and severe drought events*		
A212-06	Study and adopt centralized wastewater treatment systems to improve quality in highly urbanized and densely populated areas		
A212-07	Conduct water resource supply and demand analysis under various hydrologic conditions and climate scenarios*		
A212-08	Incorporate water cycles change from CC & CV into trans-boundary water basin planning		
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A213-01	Training for community-based water associations to manage water supply infrastructures	M213-01	Train managers or workers to improve water or energy efficiency in business operations
A213-02	Conduct Integrated Water Resource Management and CC adaptation and disaster risk reduction training for vulnerable communities*		
A213-03	Develop gendered and accessible knowledge products and IEC materials that include local and indigenous knowledge on water resources management, CC impacts on water resources and adaptation best practices*		
A213-04	Develop and network government database on water resources and users*		
Code	4 - Service Delivery	Code	4 - Service Delivery
A214-01	Incorporate climate change and climate variability in water supply infrastructure/ Rehabilitate water infrastructure with climate lens (use of climate projections and other relevant climate data)*	M214-01	Reduce energy intensity of existing water supply systems (e.g. replacing pumps)



## Annex A: Climate Change Typologies (LGUs)

A214-02	Construct new and expand existing water supply infrastructures for waterless communities*	M214-02	Reduce or capture methane emission from ventilated improved pit latrines.
A214-03	Treatment of wastewater for conservation/re-use purposes to respond to declines in water availability due to climate change and climate variability	M214-03	Reduce per capita water consumption using demand-side interventions (e.g. household water, shower, toilet, and dishwasher)
A214-04	Incorporate changes in design of sanitation systems, wastewater treatment and disposal system in response to extreme weather and flood events arising from climate change and climate variability	M214-04	Reduce GHG emission (methane and nitrous oxide) from wastewater
A214-05	Implement/install water harvesting technologies* (e.g. small water impounding project)	M214-05	Reduce energy consumption during wastewater treatment (e.g. from activated sludge to up flow anaerobic sludge)

Strategic Priority 2 - Water Sufficiency			
2- Flood Protection			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A221-01	Formulate and implement ordinances and policies for rain water collection, such small water impoundments, retarding basins, mini dams to address water shortage and flooding*		
A221-02	Design guidelines, emergency protocols, and encourage preparedness and risk/contingency planning in communities that are at risk to present or future flooding		
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A222-01	Conduct vulnerability assessments in communities, LGUs, and sectors that are at risk to present or future flooding		
A222-02	Improve hydromet infrastructure and monitoring systems for data collection and management and the development and delivery of information, products and services to increase flood resilience		
A222-03	Develop innovative technologies and methodologies to communicating flood emergency information and longer-term risks of flooding to relevant populations and communities		
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A223-01	Build local capacity for the management of climate change and extreme flood risks, and increase capacity in conducting vulnerability assessments		
A223-02	Increase knowledge to consider climate change information and climate risk in water resources management		



Annex A: Climate Change Typologies (LGUs)

Code	4 – Service Delivery	Code	4 - Service Delivery
A224-01	Incorporate climate change and climate variability in design standards for flood control and drainage systems		
A224 02	Improve resilience of infrastructure (bridges, water supply, community infrastructure, water storage, coastal defense, etc) to account for climate change and climate variability related extreme weather and climate variability that could increase flood risks in infrastructure		
A224-03	Protect or re-establish mangrove forests, wetlands, and other ecosystems as protection against floods risks		
A774-05	Improve early warning information and alert systems to increase readiness to extreme flood risks		

Strategic Priority 2 - Water Sufficiency			
3 - Water and Sanitation			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A231-02	Design guidance for incorporating climate change risk into water sanitation and treatment planning, operation, and management (including accounting for increased construction and maintenance costs that account for climate risk)		
A231-03	Incorporate risk of sea level rise, storm surge, and saltwater intrusion on the design and upgrades of coastal water sanitation infrastructure		
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A232-01	Study and adopt centralized wastewater treatment systems to improve quality in highly urbanized and densely populated areas with respect to increased flooding, storm surge, and extreme precipitation events		
A232-02	Conduct vulnerability assessments for the sanitation and treatment of water supply		
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A233-01	Increase local knowledge for how to consider climate change information and climate risk in water quality and wastewater treatment		
FY2016	4 - Service Delivery	FY2016	4 - Service Delivery
A234-01	Expand the establishment of alternative micro water purification systems especially to areas that cannot be reached by safe water supply*		



Annex A: Climate Change Typologies (LGUs)

A234-02	Monitor impact of climate change and climate variability as part of water resource management		
A234-03	Incorporate changes in design of sanitation systems, wastewater treatment and disposal system in response to extreme weather and flood events arising from climate change and climate variability		

Strategic Priority 3 – Ecological and Environmental Stability			
1 - Forest and Biodiversity			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A311-01	Design and implement payments for environmental services and other innovative conservation financing mechanisms to support ecosystem-based adaptation and mitigation*	M311-01	Implement and monitor progress of Reducing Emissions from Deforestation and Forest Degradation (REDD+) related policies*
A311-03	Integrated ecosystem management approaches for watersheds and wetlands to reduce vulnerability to climate change and climate variability		
A311-05	Develop guidelines for implementing Integrated Water Resources Management (IWRM) and climate change adaptation at the local, watershed and river basin level*		
A311-06	Formulate ordinances/policies to reduce the human-related impacts to coral reefs to help lessen the reefs' vulnerability to climate change		
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A312-01	Conduct ecosystems vulnerability and risk assessment*	M312-01	Greenhouse gas accounting and inventory
A312-02	Study, design and implement financing mechanisms for IWRM and climate change adaptation implementation in critical watersheds and river basins*		
FY2016	3 - Knowledge Sharing and Capacity Building	FY2016	3 - Knowledge Sharing and Capacity Building
A313 01	Training on vulnerability and risk assessments*		
A313-03	Establish management information system for different ecosystems that link various data sources*		
A313-04	Document and disseminate best practices, including climate change responsive Indigenous practices*		
A313-05	Festivals and events which advocate the protection and preservation of nature		
Code	4 – Service Delivery	Code	4 - Service Delivery



Annex A: Climate Change Typologies (LGUs)

A314-01	Delineate/Rehabilitate/Reforest degraded watersheds and forest areas	M314-01	Re-forestation and afforestation that increases vegetative cover or sequesters carbon
A314-02	Conserve and protect existing watershed and protected areas	M314-02	Sustainable peat land/ wetland/forest management and protection
A314-03	Delineate "ridge-to-reef" ecosystem-based management zones for the ecotowns through multi stakeholder process*	M314-03	Avoided deforestation (e.g. Bantay Gubat; Bantay Bakawan)
A314-04	Update status of Protected Areas and Key Biodiversity Areas from results from the vulnerability and risk assessment*	M314-04	Management and protection of Tree Parks/Provincial Forests and Nursery
A314-06	Improve physical system performance of river basins	M314-05	Oplan Sagip Kalikasan/Urban greening program
A314-07	Seedling production; management of mangrove nursery	M314-06	Identify and implement a moratorium of mining operations in protected areas pending vulnerability and risk assessment and economic valuation studies*
A314-08	Agro-forestry to diversify farmers' incomes and provide alternatives livelihood during extreme weather events (i.e. drought)	M314-07	Re-establish and protect mangroves, floodplains and seagrass beds with carbon sequestration properties
A314-09	Integrated tree planting along riverbanks/ river bank rehabilitation / that reduce the risk of flooding	M314-08	Green charcoal briquetting facility that reduce deforestation
A314-10	Establishment of database network on wildlife, genetic biodiversity and biosafety	M314-09	Monitor illegal mining activities that emit greenhouse gasses

**Strategic Priority 3 – Ecological and Environmental Stability**

**2 – Solid Waste**

Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A321-01	Incorporate change in design of solid waste management systems in response to extreme weather and flood events arising from CC&CV	M321-01	Develop and implement ordinances and policies that promote a system of incentives for the use of reusable bags and containers/ban or impose a fee on the use of plastic bags*
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
		M322-01	Conduct Waste Amount & Composition Study (WACS)
FY2016	3 - Knowledge Sharing and Capacity Building	FY2016	3 - Knowledge Sharing and Capacity Building
		M323-01	Conduct intensive IEC on waste reduction, segregation and composting
Code	4 – Service Delivery	Code	4 Service Delivery
		M324-01	Waste reduction and diversion program/Intensify waste segregation at source, discard recovery, composting and recycling*
		M324-02	Construction and operation of Materials Composting and Recovery Facility (MRCF) Building; Buyback Center; Purchase of MCRF equipment



Annex A: Climate Change Typologies (LGUs)

		M324-03	Upgrade existing landfills to capture methane for energy generation or gas flaring for CO2 generation
		M324-04	Establish and implement ecological solid waste management (ESWM) program in accordance with Republic Act 9003
		M324-05	Close solid waste management sites in environmentally critical areas

Strategic Priority 4 – Human Security			
1 - Health			
FY2016	1 - Policy Development and Governance	FY2016	1 - Policy Development and Governance
A411-01	Develop guidelines on treatment of health issues due to climate change and climate variability		
A411-02	Include climate related diseases in basic benefits of insurance policies		
A411-03	Develop policy requiring integration of climate change and disaster risk reduction concepts and approaches in medical and allied health training courses*		
A411-04	Develop and implement monitoring health infrastructure damage and rehabilitation plan*		
A411-05	Develop and implement post disaster epidemic outbreak management and disease surveillance system (ex. water-borne diseases and other health risks due to climate change)*		
A411-06	Planning for Climate Change Adaptation for health sector		
A411-07	Expand insurance eligibility to populations vulnerable to climate related diseases		
FY2016	2 - Research, Development and Extension	FY2016	2 - Research, Development and Extension
A412-01	Assess changes in risk, exposure or sensitivity to climate change and climate variability related diseases for vulnerable groups		
A412-02	Assess impact of climate change and climate variability on livelihoods and poverty with focus on vulnerable groups		
A412-03	Vulnerability and risk assessment for government infrastructure (e.g. hospitals, health centers, and barangay health units)		
A412-04	Risk Assessment for barangays		
FY2016	3 - Knowledge Sharing and Capacity Building	FY2016	3 - Knowledge Sharing and Capacity Building
A413-01	Training and education of health personnel on treatment, monitoring and surveillance of climate change and climate variability related health issues *		



Annex A: Climate Change Typologies (LGUs)

A413-02	Strengthen health management information management		
A413-03	Incorporate climate related health risks into clinical practice guidclincs, and curricula for continuous medical education		
A413-04	Training for health emergency preparedness and response*		
FY2016	4 - Service Delivery	FY2016	4 - Service Delivery
A414-01	Develop and implement program for community-based adaptation measures and health emergency preparedness*		
A414-02	Upgrade health systems to respond to changes in environmental health risks from climate change and climate variability (e.g. malaria)		
A414-03	Develop food safety/ food security measures that take account of new conditions caused by climate change		
A414-04	Development of livelihood diversification strategies to reduce dependence of climate related income opportunities		
A414-05	Implement program for community health emergency preparedness and response*		
A414-06	Development of social protection strategies to respond to climate change and climate variability		

Strategic Priority 4 – Human Security			
2 - Settlements and Local Land Use			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A421-01	Mainstreaming of CC-DRRM in local plans* (PDPFP, CLUP, CDP, ELA)		
A421-02	Incorporate vulnerability to CC and CV in housing design standards		
A421-03	Develop green building ordinance/rating scheme, specifications and criteria*		
A421-04	Develop and implement programs and incentive system for CC proofing and retrofitting water infrastructure at the household/community level*		
A421-05	Regulate settlements in areas vulnerable to CC & CV		
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A422-01	Identify, map and profile areas and communities highly prone to climate-related disasters*		
A422-02	Conduct risk and vulnerability assessment*		
A422-03	Conduct a study on population carrying capacity of areas and CC adaptive capacity of various communities*		



Annex A: Climate Change Typologies (LGUs)

A422-04	Identify most CC vulnerable sectors and population*		
A422-05	Conduct of CBMS with DRRM/CCA		
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A423-01	Develop and implement knowledge management on climate change and disaster risks for local government units and communities*		
A423-02	Increase local capacity for forecasting, early warning (including indigenous systems) and disaster risk communication*		
A423-03	Conduct training of trainers to respond to the needs of communities for CCA*		
Code	4 – Service Delivery	Code	4 - Service Delivery
A424-01	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families*	M424-01	Retrofit/ Install new heating and cooling systems using renewable energy
A424-02	Develop and implement post-disaster resettlement and counseling of displaced families and communities*	M424-02	Promote/Build energy efficient housing
A424-03	Implement mixed-use, medium-to-high density developments, integrated land use-transport plan in developing new urban communities or in expanding existing ones*		
A424-04	Expand the establishment of alternative micro-water purification systems especially to areas that cannot be reached by safe water supply*		
A424-05	Develop and implement a CC adaptation plan for settlement/resettlement in consultation with affected communities, private sector, and civil society organization		
A424-06	Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards		
A424-07	Reconstruction of housing projects damaged by calamities (Building Back Better)		
A424-08	Relocating flood prone communities and commercial centers to safer areas		
A424-09	Disaster and Climate Risk Monitoring System		
A424-10	Install Early Warning Systems		
A424-11	Construction of climate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks)		
A424-12	Climate proofing/retrofitting or relocating of government infrastructure (i.e. schools and government hospitals, health centers,		



Annex A: Climate Change Typologies (LGUs)

	rural health units, teen centers) from climate hazards		
A424-13	Demolition of illegal structures occupied by informal settlers in high risk areas/ Relocation of informal settlers		

Strategic Priority 5- Climate Smart Industries and Services			
1 - Tourism, Trade and Industries			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A511-02	Incorporate new CC&CV resilient design standards in new buildings	M511-01	Introduce rules and regulations to reduce GHG emissions or absorb of GHGs in industry and trade
A511-04	Formulate/enhance tourism plans, policies and strategies to promote green tourism*	M511-03	Introduce a system of incentives to encourage the use of climate-smart technologies and practices
A511-05	Create an enabling ordinance/policy for the development and implementation of climate-smart industries and services*	M511-04	Integrate monitoring of existing and new-climate smart industries and services within existing business registration system*
A511-06	Introduce regulations and programs to support climate resilient investments	M511-05	Implement a system of collection, analysis and reporting of baseline and new data on green jobs and employment*
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A512-01	Identify the carrying capacity of tourism areas*	M512-01	Conduct baseline inventory of climate-smart industries and services and good practices in the local government unit*
A512-02	Aquasilviculture Demo Farm to rehabilitate mangroves and address climate change and provide livelihood	M512-02	Baseline data on GHG emissions from industry and other sources
		M512-04	Forge partnerships with industry, academe, and research organizations on R&D of climate-smart technologies and products in the locality
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A513-01	Promote public-private partnership to increase investments in the development of climate-smart technologies, products and services*	M513-01	Develop modules and conduct trainings to capacitate industries to conduct GHG emissions inventory and carbon footprint*
A513-07	Assist SMEs in developing capacity for eco-efficient production*		
Code	4 - Service Delivery	Code	4 - Service Delivery
A514-01	Marketing and trade support for changing agricultural product mix in response to climate change and climate variability	M514-01	Marketing and trade support for products that reduce GHG emissions per unit of output
A514-02	Support new income generating opportunities and industries utilizing natural resource better adapted to climate change and climate variability	M514-02	Marketing and trade support for agricultural products that use integrated organic and inorganic nutrient management
A514-03	Retrofit assets and capital to protect against CC and CV	M514-03	Rehabilitate/reforest degraded tourism areas



Annex A: Climate Change Typologies (LGUs)

A514-04	Support industries that are better adapted to CC and CV (e.g. Tiger-grass production for agri-business)		
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Strategic Priority 6- Sustainable Energy			
1 - Energy Efficiency			
FY2016	1 - Policy Development and Governance	FY2016	1 - Policy Development and Governance
A611-04	Mandatory implementation of AO110 and AO126 directing the institutionalization of Government Energy Management Program*	M611-01	Change operational procedures or techniques, or retrofit technologies to reduce GHG emissions in existing operations
		M611-03	Develop/implement ordinances and policies to improve energy efficiency – in buildings, agriculture, industry and city/municipal services (e.g. public building maintenance program to improve energy efficiency; use of more energy efficient street lighting such as LED).
		M611-04	Develop a certification system/incentives for voluntary adoption of energy efficiency labelling, green building rating, and ISO 50001 certification
		M611-05	Develop a local renewable energy program*
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A612-01	Conduct sustainable and renewable energy resource assessments (e.g. hydro, geothermal, biomass, wind, ocean and solar)*	M612-02	Sector studies, surveys, assessments and information systems on energy efficiency, efficient energy pricing, and promotion of renewable energy
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A613-02	Conduct capacity building of community-based renewable energy organizations on system maintenance, energy efficiency and conservation, organizational development, tariff setting and management systems*	M613-01	Sector reform and capacity building related to energy efficiency in energy sector, promotion of renewable energy and efficient energy pricing
		M613-02	Strengthen regulatory and institutional framework to support expansion of renewable power generation
		M613-03	Strengthening capacity of institutions to plan for low-carbon growth and environmentally sustainable energy supply
Code	4 - Service Delivery	Code	4 - Service Delivery
A614-01	Design and implement system of incentives for renewable energy for host communities and local government units that can be used for sustainable livelihood programs and climate change adaptation measures*	M614-02	Pilot programs on energy efficiency activities



Strategic Priority 6- Sustainable Energy			
2 - Power Generation			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
		M621-04	Develop RE project-based and service contracts-based portfolios to encourage potential investors in identified sites
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
		M622-02	Conduct survey of RE potential in off-grid areas
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
		M623-01	Conduct capacity building of community-based RE organizations on RE system maintenance, EE&C organizational development, tariff setting and management systems
Code	4 - Service Delivery	Code	4 - Service Delivery
A624-02	Flood protection or irrigation from construction of dams or water storage system that manage changes in the water cycle due to CC & CV	M624-06	Development of renewable energy( i.e. Establishment of Solar Panels/Installation of Wind Mill/Bio-Gas)
A624-03	Improve design of wind turbine structures to withstand higher wind speeds as a result of extreme weather events	M624-07	Clean Cities Initiatives or those that promote/increase utilization of alternative/clean fuels for the transport sector (tricycle, jeepney, bus, private and government vehicles)
A624-04	Improve design of solar panels to withstand higher intensity storms resulting from climate change and climate variability		
A624-05	Secure access to water for crops used as bioenergy source		

Strategic Priority 6- Sustainable Energy			
3 - Transportation and Communication			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A631-01	Incorporate risks from climate change and climate variability in transportation system planning	M631-01	Improve vehicle emission standards
		M631-02	Improve fuel efficiency standards
		M631-03	Strengthen vehicle inspection systems on emissions and fuel efficiency
		M631-04	Develop ordinances/policies to encourage shift from higher carbon to lower carbon transport modes (i.e. pedestrianization, bicycle lanes, public transport)
FY2016	3 - Knowledge Sharing and Capacity Building	FY2016	3 - Knowledge Sharing and Capacity Building



Annex A: Climate Change Typologies (LGUs)

		M633-01	Capacity building related to energy efficiency in the transport sector
FY2016	4 – Service Delivery	FY2016	4 - Service Delivery
A634-01	Protect transport infrastructure against extreme weather events (especially floods and storms) becoming more frequent and violent due to CC and CV	M634-01	Urban traffic management (e.g. improve traffic flow) to reduce GHG emissions per unit transported
A634-02	Establish emergency services designed to cope with climate change and climate variability related emergencies in the transport sector	M634-02	Improved waterways, port and aviation facilities to reduce the carbon intensity per unit transported
A634-03	Construct new roads, ports, airports and aviation infrastructure to climate resilient design standards	M634-03	New railway lines for electricity based railcars
A634-04	Upgrade existing roads, ports and aviation infrastructure to climate resilient design standards	M634-05	Improve energy efficiency in telecommunications information technologies
A634-05	Development of telecommunications infrastructure for use as part of an emergency response system during extreme weather events		
A634-06	Enhance road maintenance to respond to climate change and climate variability		
A634-07	Enhanced waterway maintenance to respond to climate change and climate variability		

Strategic Priority 7 – Knowledge and Capacity Development			
1 - Education and Climate Science			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A711-04	Creation of offices with a mandate for climate change adaptation and mitigation		
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
A713-01	Awareness raising programs on climate change and climate variability		
A713-02	Training for pre-elementary, elementary, high school and college teachers on integrating climate change in basic courses*		
A713-03	Upgrade personnel’s capacity and skills on climate change modeling and weather forecasting*		
A713-04	Capacity building to address vulnerability to climate change and climate variability		
A713-05	Climate Change 101 or Introductory Course on Climate Change		
A713-06	Support to international campaigns that promote climate change adaptation and mitigation (e.g. Earth month)		
Code	4 - Service Delivery	Code	4 - Service Delivery

CC – Climate Change  
GHG – Greenhouse Gases

CV – Climate Variability

\*Activities under the NCCAP



Annex A: Climate Change Typologies (LGUs)

A714-01	Review and development of curricula to take account of climate aspects in basic education, vocational training and other forms of follow-up training and education	M714-01	Development of curricula or programs focused on reducing GHG emissions, energy consumption or water consumption for elementary and high school
A714-02	Review and revise, current textbooks, modules and exemplars for pre-elementary, elementary, for climate change content and gender-sensitivity*		
A714-03	Review and revise, current textbooks, modules and exemplars for high school and alternative learning system for climate change content and gender-sensitivity*		
A714-05	Improve government systems and infrastructure required for climate change modeling and climate forecasting*		
A714-06	Establish centers on climate change adaptation/mitigation and best practices and innovations (e.g. Climate Change Academy)		

Strategic Priority 8 - Finance			
Code	1 - Policy Development and Governance	Code	1 - Policy Development and Governance
A811-01	Introduce ordinances and programs to support climate resilient investments	M811-01	Introduce ordinances, programs or financial instruments to support GHG reducing activities
A811-02	Expand insurance eligibility to populations vulnerable to climate related diseases	M811-02	Strengthen institution and policies to mobilize carbon finance
A811-03	Regulate or provide incentives in housing finance to encourage upgrading of existing real estate that reduces vulnerability to CC and CV	M811-03	Prepare for carbon markets or implement carbon finance market transactions
A811-04	Develop and introduce weather or climate indexed insurance programs (e.g. crop insurance)	M811-04	Develop ordinances or provide incentives in housing finance to support energy saving designs and standards
Code	2 - Research, Development and Extension	Code	2 - Research, Development and Extension
A812-04	Economic analysis of financial needs for adapting to climate change and climate variability (cost of adaptation)	M812-03	Reduce fossil-fuel consumption through taxes, levies or fees on energy or transport services
Code	3 - Knowledge Sharing and Capacity Building	Code	3 - Knowledge Sharing and Capacity Building
		M813-01	Strengthen LGUs in developing policies to mobilize carbon finance
Code	4 - Service Delivery	Code	4 - Service Delivery
A814-02	Introduce green bonds or other securities specifically targeted at adaptation to climate change and climate variability	M814-01	Provide lines of credit for investments in reduction of GHG emissions and/or absorption of GHGs
		M814-02	Support to access carbon markets
		M814-03	Introduce green bonds or other securities specifically targeted at reducing GHG emission or sequestering GHGs



CY \_\_\_\_\_ Annual Investment Program (AIP)  
By Program/Project/Activity by Sector  
As of \_\_\_\_\_

Province/City/Municipality: \_\_\_\_\_

No Climate Change Expenditure (Please tick the box if your LGU does not have any climate change expenditure)

AIP Reference Code (1)	Program/Project/Activity Description (2)	Implementing Office/ Department (3)	Schedule of Implementation		Expected Outputs (6)	Funding Source (7)	AMOUNT (in Thousand pesos)				AMOUNT of Climate Change expenditure (in Thousand Pesos)		CC Typology Code (14)	
			Start Date (4)	Completion Date (5)			Personal Services (PS) (8)	Maintenance and Other Operating Expenses (MOOE) (9)	Capital Outlay (CO) (10)	Total (11) B+9+10	Climate Change Adaptation (12)	Climate Change Mitigation (13)		
General Services (1000)														
Social Services (3000)														
Economic Services (8000)														
Other Services (9000)														

Prepared by:

\_\_\_\_\_  
Planning Officer

Date: \_\_\_\_\_

\_\_\_\_\_  
Budget Officer

Date: \_\_\_\_\_

Attested by

\_\_\_\_\_  
Local Chief Executive

Date: \_\_\_\_\_



**Instructions:**

Column 1	Indicate the reference code for the sector/sub-sector as per UBOM in order to facilitate consolidation of requirements
Column 2	Describe briefly the program/project/activity to be implemented and accomplished by the LGU (i.e. infrastructure projects, programs or activities).
Column 3	Identify the office/department that will implement the program/project/activity.
Column 4 & 5	Specify the targeted starting and completion date.
Column 6	Describe the output or results in quantified terms.  In particular, for PPAs that are climate tagged (include a CC typology code in column 14), specify the outputs for adaptation or mitigation (e.g. 3 kilometers of climate proofed concrete road, 200 cavans of climate -change resilient rice variety seeds distributed, 10 hectares reforested; lighting in municipal hall replaced with LED lamps).
Column 7	Indicate the funding source of the program/project/activity. Specify if: <ul style="list-style-type: none"> <li>• Local Disaster Risk Reduction and Management Fund</li> <li>• Development Fund (20% of IRA)</li> <li>• General Fund</li> <li>• Grant/loan from outside sourcing</li> <li>• Financial assistance/Aid from national government</li> <li>• Financial assistance from other LGUs</li> </ul>
Column 8, 9 & 10	Indicate the estimated amount of the program/project/activity broken down into PS, MOOE and CO.
Column 11	Add up Columns 8, 9 and 10.
Column 12	For PPAs tagged as Climate Change Adaptation (CCA), indicate the amount of climate change expenditure estimated as follows: CCA PPAs are responses that are intended to reduce the vulnerability of human or natural systems to the impacts of climate change and climate-related risks, by maintaining or increasing adaptive capacity and resilience. (Refer to Section 4.1.1 of the JMC for CCA responses).



	<ul style="list-style-type: none"> <li>• The entire cost is included for PPAs, if the Program/Project Profile indicates that a primary goal/objective of the PPA is to provide a direct adaptation response (address the drivers of vulnerability, directly confront climate change impacts, build resilience to current and future climate risks). The examples below show examples of PPAs that have objectives that address the drivers of vulnerability, directly confront climate change impacts and build resilience to current and future climate risks:             <ul style="list-style-type: none"> <li>○ The objective of a Resettlement Program for a community living along the coastline is to reduce vulnerability to rapid inundation from intensified tropical storms and gradual submergence from on-going sea-level rise.</li> <li>○ The objective of a Small Water Impounding Project/Rain water harvesting is to address water shortage as a result drought, then the entire cost of the project can be included in column 12.</li> <li>○ The objective of the program on Food Sufficiency Program is to introduce drought and water resistant palay variety to improve the adaptive capacity of farmers to climate change, then the entire amount can be included in column 12.</li> </ul> </li> <li>• If direct adaptation response is not a primary PPA goal/objective, only the cost of the specific components of the PPAs that match those listed in the Climate Change Expenditure Typology (Annex A) are included. For instance the primary objective of farm to market roads is to provide access. Since adaptation response is not the primary objective, only the components related to the adaptation response would be included.</li> </ul>
<p>Column 13</p>	<p>For PPAs tagged as Climate Change Mitigation (CCM), indicate the amount of climate change expenditure estimated as follows: CCM PPAs are responses that are aimed at reducing greenhouse gas emissions (GHG), directly or indirectly, by avoiding or capturing GHG before they are emitted to the atmosphere or sequestering those already in the atmosphere by enhancing “sinks” such as forests. (Refer to Section 4.1.2 of the JMC for CCM responses)</p> <ul style="list-style-type: none"> <li>• The entire cost is included for PPAs, if the Project Profile explicitly includes a direct mitigation response as a primary PPA goal/objective. For example, the objective of the City Bikeways Program is to reduce CO<sub>2</sub> emissions, then the entire cost of the program can be included in column 13 under CCM.</li> <li>• If direct mitigation response is not a primary PPA goal/objective, only the cost of the specific components of the PPAs that match those listed in the Climate Change Expenditure Typology (Annex A) are included. For example, building elementary schools can include components that contribute to CCM, such as the use of</li> </ul>



	<p><b>LED lighting which is more energy efficient. In this instance, only the amount for the LED lighting is included in column 13, not the whole amount for building the elementary school.</b></p>
<b>Column 14</b>	<p>Indicate the CC Typology Code of the PPA as indicated in Annex A.</p> <ul style="list-style-type: none"><li>• Only use one typology code for each PPA. When a PPA qualifies under multiple CC typologies, use the code that accounts for the largest share of expenditures.</li><li>• Do not tag a PPA without a corresponding amount.</li><li>• Entire office budgets cannot be tagged as climate adaptation or mitigation. The only exception is if the primary mission/mandate of the office is climate change adaptation or mitigation. This would need to be validated by clear adaptation and mitigation output and outcome indicators that the office monitors.</li></ul>



## Annex C: CCET Quality Review and Assurance Guidelines

Ensuring the quality of the climate change (CC) expenditure data is a key part of the budget review process. Having a documentary basis for the tagging decisions increases the transparency and credibility of the CC expenditures reported by the Government. At the national level, for FY 2015, the Department of Budget and Management (DBM) and the Climate Change Commission (CCC) set up a Quality Assurance Review system for FY 2016 to ensure the quality of the collected data and to strengthen the uptake of the data in the budget planning, prioritization, monitoring, and reporting processes.

Likewise, a Quality Review and Assurance Tool (see form below) is being introduced at the LGU level for FY 2016 to guide LGUs in assessing and documenting the evidence base that support their CC tagging decisions. The Quality Review and Assurance (QAR) Tool reviews the climate change objectives and coverage of the tagged P/A/Ps, and identifies their interconnectedness with CC adaptation and/or CC mitigation responses. In addition, the QAR helps document which CC vulnerabilities of the locality the PPA responds to and how the PPA design has been informed by these CC vulnerabilities. The QAR also reports on the contribution of the PPA to the existing LGU plans.

LGUs located in highly vulnerable provinces are required to accomplish the form below for CC tagged PPAs in their AIPs and submit the same to the CCC [[lguhelpdesk@climate.gov.ph](mailto:lguhelpdesk@climate.gov.ph)] together with their AIP. LGUs are to refer to the prepared program/project profile when filling out the form. The increased accuracy and transparency in the budgeted climate program of the LGU is expected to strengthen the AIP CC briefs which summarize the LGU's climate change program priorities and to support a more informed public discourse on CC priorities within the LGU. The information in the Form will also be used by the CCC to guide climate policies related to LGUs. An example of the filled-out CCET QAR is found below.

Table 1: Example of Filled-out CCET Quality Review and Assurance (QAR) Form

Program/Project /Activity (PPA) Description	CC Typology Used	Main Objective	CC Objectives	Climate Risks being addressed?	Climate information used?	Alignment of PPA with LGU Plans					
						PDPFP/ CLUP (7)	CDP (8)	LCCAP (9)	LDRRMP (10)	LDIP (11)	Not identified in Plans (12)
(1)	(2)	(3)	(4)	(5)	(6)						
Construction of rainwater harvesting facility for irrigation	A114-05	Improved farm productivity	Provide irrigation water during the dry season	Drought	Drought statistics			X			
Flood Control Program	A224-01		Ensure efficiency and effectiveness of flood control management	Floods, Storm Surges	Climate projections, Flood susceptibility maps	X	X			X	



Annex C: CCET Quality Review and Assurance Guidelines

Awareness raising programs on climate change and climate variability	A713-01		Improved community awareness and knowledge on CC	All types of climate risks	Observed and Projected Annual Mean Temperature		X	X			
Reforestation Program	M314-01	Increased forest cover	Increased carbon sequestration potential			X	X	X		X	

(1) Include the PAPs tagged as CC adaptation or CC mitigation in the AIP form

(2) Identify the corresponding activity-level typology. Refer to Annex A – CC Typologies

(3) Include the Main Objective of the PAP. Refer to the Program/Project Brief.

(4) Identify objectives that are relevant to CC adaptation or CC mitigation. Refer to JMC – Definition

(5) Identify climate risks being addressed. Refer to JMC – Definition

(6) Identify climate information used. Refer to the JMC – Definition

For Columns (7-11), put an X in the columns if the tagged PPA is included or contributes to the identified LGU plan (select all that apply)

(12) Put an X under the column when the PPA has not been identified in any of the plans identified in Cols 7-11



Annex C: CCET Quality Review and Assurance Guidelines

**CCET Quality Review and Assurance Form**

Program/Project /Activity (PPA) Description	CC Typology Used	Main Objective	CC Objectives	Climate Risks being addressed?	Climate information used?	Alignment of PPA with LGU Plans					
						PDPPP/ CLUP (7)	CDP (8)	LCCAP (9)	LDRRMP (10)	LDIP (11)	Not identified in Plans (12)
(1)	(2)	(3)	(4)	(5)	(6)						

- (1) Include the PPA tagged as CC adaptation or CC mitigation in the AIP Form
- (2) Identify the corresponding activity-level typology. Refer to Annex A – CC Typologies
- (3) Include the Main Objective of the PPA. Refer to the Program/Project Brief.
- (4) Identify objectives that are relevant to CC adaptation or CC mitigation. Refer to JMC – Definition
- (5) Identify climate risks being addressed. Refer to JMC – Definition
- (6) Identify climate information used. Refer to the JMC – Definition
- For Columns (7-11), put an X in the columns if the tagged PPA is included or contributes to the identified LGU plan (select all that apply)
- (12) Put an X under the column when the PPA has not been identified in any of the plans identified in Cols 7-11