

Final Report

Aksyon Klima Pilipinas

Strengthening Southern Voices on a Global Phasedown of Short-Lived Climate Pollutants (SLCPs) with a Particular Focus on HFC

Project Timeframe: May to October 2016

1. What have been the key activities and outputs of this work so far? Are you on track to accomplish the objectives you outlined in your proposal? Why or why not?

The project objectives as outlined in the proposal were generally achieved. Key activities and outputs included the learning events in the Visayas (Iloilo City), Mindanao (Davao City) and Luzon (Metro Manila). These learning events became opportunities to establish new partnerships with local organizations who are willing to continue the advocacy on the HFC phasedown that was started by the project.

Implementation of the project established relationships with the Philippine Ozone Desk (POD) that is mandated to undertake the agreements and decisions in the Montreal Protocol. This has established linkages with industry players who are now using HFCs. Challenges in the HFC phasedown for the refrigeration, airconditioning, foam production, and fire suppressant industries were brought out. Dialogue with the industries has given a broader perspective on how to handle the advocacy on the protection of the ozone layer and the climate.

Discussions were made with the DENR-EMB (Department of Environment and Natural Resources - Environmental Management Bureau) and the CCC (Climate Change Commission) on the mitigation targets for the SLCPs (F-gases, black carbon, methane) in the Philippines' NDC (Nationally Determined Contribution).

Initiated discussions with professional associations of architects and construction engineers in Western Visayas for consumers' avoidance of products with HFC through their designs that would maximise natural lighting and ventilation.

Provided input to the media and explained the complicated issue of HFCs as alternative to ODS but since these have higher global warming potentials thus the need for the phasedown.

2. What data have you collected related to the qualitative and/or quantitative indicators you outlined in your proposal, or any other monitoring or evaluation data that you use to assess progress? Please share any related analysis, including what you have learned as a result of this work?

In anticipation of the adoption of the Dubai pathway for HFC phasedown, industry players in the Philippines have been actively exploring alternative substances that are non ozone depleting and with much lower global warming potentials. There should be technical and financial support to develop these alternatives to HFCs so that industries in the Philippines will be ready to comply with the phasedown. There should be appropriate technologies for the proper disposal of HCFCs and HFCs.

The CCC and POD are initiating the establishment of database systems for the monitoring and reporting of mitigation actions including the SLCPs.

From practically zero to a fair presence and impact in the local and national media (radio, TV and print) and social media.

3. How are you managing the challenges and risks to achieving this project that you identified in the grant proposal? Are you encountering others you didn't anticipate, such as changes to organizational resources, staff or external partners? How are you responding?

It is a continuing great challenge to explain the technical aspects of these chemical compounds in the layman's terms. The numerous species and blends of these compounds can be intimidating topics for discussions with the target audiences.

The campaign also directly deals with changing the person's way of life, like the use of airconditioners and refrigerators. The ability to convince to change lifestyles even of one's self can be very daunting. AK, together with the members of the ACCC, has agreed to start internally to "walk the talk" even in selecting venues for conferences and meetings.

Nationally, the position of the Philippine government has been favorable to the project's advocacy that was for a more ambitious phasedown of HFC. DENR Secretary Regina Paz Lopez said before the Kigali negotiations that the success of the Montreal Protocol in phasing out ozone-depleting substances has inspired countries all over the world to seek better alternatives for HFCs. "The Ozone Layer is showing signs of healing due to the collective efforts of nations to protect it. Now, the challenge is to continue the success in ozone layer protection and at the same time ensure that commitments to limit global warming to 1.5°Celsius are met," Lopez said.

The Philippines submitted a position together with the Islands States for the amendment of the Montreal Protocol with the more ambitious HFC phasedown. However, in the Kigali MOP28 the Philippines sent only one official delegate and with no support of a consular office in Africa. The POD Project Manager, was unable to cover much of the negotiations, especially the informals and bilaterals, because of physical constraints.

Preparations for the Philippine delegation was not made properly by the then new Duterte administration. This situation could have been improved if it was anticipated and that thorough planning was made with the DENR before the negotiations started.

4. Are there any significant changes in grant strategies, activities and/or budget you made along the way, including those you may have notified us about already.

There are no significant changes in the grant strategies and activities.

On the actual budget disbursements however, there are significant changes particularly on the expense for the venues and food of the learning events / consultations. These were planned to be held at educational institutions like universities and colleges but the venues changed to hotels in Metro Manila and Davao City. Budgets intended for Advocacy Materials were realigned to the local consultations.

Objectives

Key activities and output

1. Support engagement by southern civil society through the provision of support to CSOs on a country-by-country basis.

AK conducted a round table discussion (RTD) on the NDC with a presentation by the DENR-EMB on “SLCP mitigation challenges for cities”. The following are the Philippines’ Medium Term Plan on SLCP Reduction (2016-2021):

- a. Enhance national capacity to take action on prioritized measures to mitigate SLCPs;
- b. Develop a national action plan for SLCP reduction in the Philippines
- c. Leverage finance to support SLCP mitigation programs and initiatives in the country; and
- d. Enhance awareness and promote SLCP mitigation in the Asia-Pacific region.



Discussed with the Phil. Ozone Desk (POD) re position on HFC in the Montreal Protocol negotiations. Met with Albert Magalang of the EMB-DENR climate change office re inclusion of SLCPs in the country’s NDC targets. Popularize the inclusion of the SLCP in the Philippine NDC mitigation targets.

Identified possible partners and made initial discussions for the HFC Advocacy Committee that would include the Philippine Clean Air Alliance (PCA), Manila Observatory (MO), Responsible Ilonggos for Sustainable Energy (RISE)

Planned to expand partners to include other stakeholders like the Philippine Institute of Chemical Engineers (PIChe), trade associations of refrigeration and air-condition technicians, importers, supermarkets, hotels, appliance stores, and others.

Initiated links with academic and technical institutions (MO; Central Philippine University, CPU; PIChe) on the global warming impacts of HFC and present viable alternatives. Expand and consolidate the partnerships with the academic and technical institutions on the advocacy on SLCP with focus on HFC.

Engagement with the industry players (refrigeration and airconditioning, foam production, fire suppressants) resulting a dialogue on possible alternatives to HFC.

Refrigerants

- The trend in recent years has been an increase in refrigerants to replace fluids with Ozone-depleting significant Global Warming Potential (GWP)
 - unsaturated fluorochemicals
 - hydrofluoroolefins and blends of these with
 - 7 new refrigerants, most of them blends, have designation/classification in American Society of Refrigerating and Air-Conditioning Engineers International Standards Organization
 - hydrofluoroolefin (HFO)
 - new mixtures of R-32 and R-455A.
 - Interest continues in hydrocarbons (water), R-744 (carbon dioxide)



Multiflex RNC Philippines, Inc.

Locations: HCFCs

Moulded Foam – Canlubang Plant



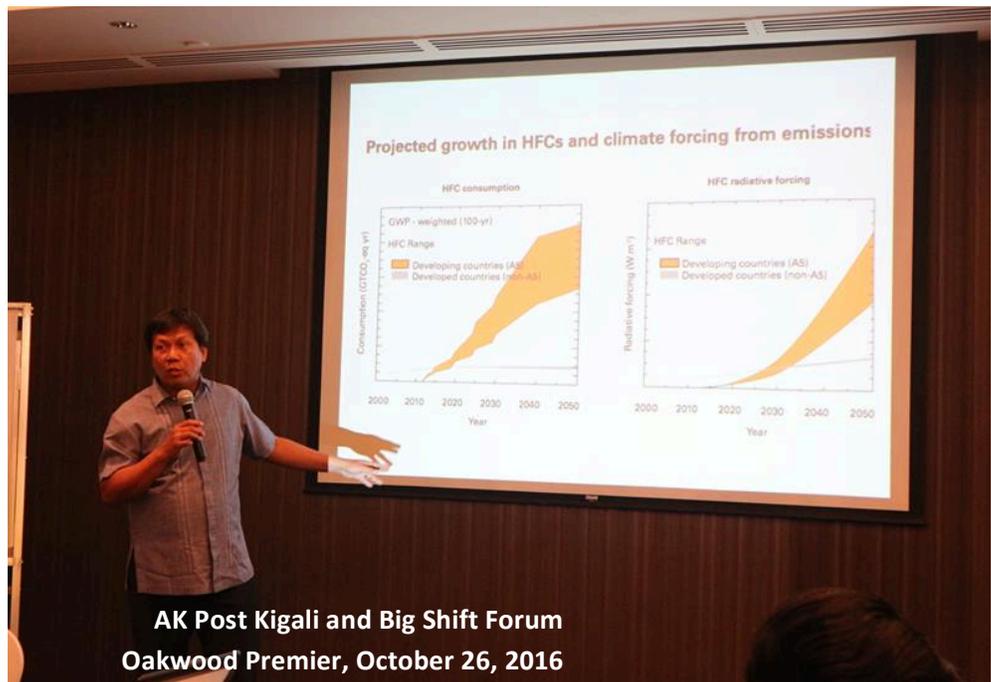
TECHNOLOGY FORUM

Some of the industry presentation in the technology forum last Sept 16 2016

FIRE EXTINGUISHING & FIRE SUPPRESSION SYSTEMS

Alternatives to ODS in the Fire Protection Sector

AK capacity-building on HFC issue.



Projected growth in HFCs and climate forcing from emissions

HFC consumption

GWP-weighted (100-yr)

Consumption (GtCO₂ eq/yr)

Year

HFC Range

- Developing countries (AS)
- Developed countries (non-AS)

HFC radiative forcing

Radiative forcing (W m⁻²)

Year

HFC Range

- Developing countries (AS)
- Developed countries (non-AS)

AK Post Kigali and Big Shift Forum
Oakwood Premier, October 26, 2016

Conducted learning activities:

**a. Visayas. Iloilo City
September 2, 2016**

Ozone and Climate: A Learning Event on Reducing Global Warming HFC
Graduate and Continuing Education Building
University of the Philippines Visayas, Iloilo City

Local partners in
Iloilo City:

Lets Do It! (youth
group)

RISE (Responsible
Ilonggos for
Sustainable Energy)

FDC-Iloilo (Freedom
from Debt Coalition)

The **Philippine Ozone
Desk (POD)** and the
DENR-EMB Region VI
provided the
technical input on the
current use of HFC in
the region and its
alternatives.



**Atty. Jonathan Bulos,
Regional Director, DENR-EMB Region 6**



**Engr. Arjunn Marven Calvo,
DENR-EMB Region 6**

**Ms. Ella Deocadiz,
Program Manager, POD**



b. Luzon / Metro Manila
September 16, 2016

Technology Forum on Alternatives to Ozone Depleting Substances (ODS) for Ozone Layer and Climate Protection

Sequoia Hotel, Quezon City

Facilitated with the
Philippine Ozone Desk
based in the EMB
(Environmental
Management Bureau)
of the DENR
(Department of
Environment and
Natural Resources)

Industry players in the
refrigeration,
airconditioning, foam
manufacturing and
fire suppressants
actively participated
in the activity.



c. Mindanao. Davao City
December 27, 2016

Forum on the HFC Phasedown and the Big Shift!
Marco Polo Hotel, Davao City

In partnership with the Mindanaoan Youth Development Center, Inc. (MYDCI). Very productive interaction with the MYDCI expressing interest in sustaining the partnership for the HFC advocacy campaign. Participants came from the youth, academe, and CSOs.



**Mindanao Forum
Attendance Sheets**



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Date: Dec 28, 2016
Venue: Marco Polo Hotel

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2. Enhance participation by key southern officials and negotiators through the provision of support to officials and negotiators participating in the Montreal Protocol negotiations.

The Philippines submitted with Kiribati, Marshall Islands, Mauritius, Micronesia, Palau, Samoa and Solomon Islands a proposal to include HFC for phasedown. The country has one of the more ambitious targets in the HFC phasedown. Consolidated links with the Philippine delegation to participate in the formulation of positions for the negotiations of the Montreal Protocol.

Participated in the discussions and formation of the Asian Climate Change Consortium (ACCC) last July 12-14, 2016 in Cyberjaya, Malaysia where the decision to conduct advocacy campaign on SLCs focused on HFC was one of the agreements.

In coordination with ACCC prepare for engagement (dialogues, side events, lobby and support country negotiators, etc.) for the Montreal Protocol MOP 28 in Kigali on Oct 10-14, 2016. AK participated as Observer with the Christian Aid delegation in the MOP28. Attended meetings of the ASEAN parties, CAN CSOs and several side events that discussed experiences of other developing countries. Provide AK with reports on the negotiations.

B.I.T.S. in bits

snippets of information, update and opinion on biodiversity, innovation, trade and societal concerns in easy, understandable format

← Understanding Federalism 2 – The Philippine Experience under the Local Government Code and its Lessons for a Philippine-style federalism

To Understand DUTERTE, or Digong's Split with the US, Start by Knowing what is US Imperialism →

WHAT HAPPENED IN THE NEGOTIATIONS FOR HFCs PHASEOUT IN KIGALI, RWANDA

Posted on [October 16, 2016](#)

CURRENT SOCIETAL CONCERNS
Melvin Purzuelo
Kigali, Rwanda
1730H 14 October 2016



Parties attending the final plenary of the 28th MOP of Montreal Protocol

(photo from Earth Negotiations Bulletin, <http://www.iisd.ca/ozone/resumed-ocwg38-mop28/14oct.html>, accessed 16 October 2016)

The 28th Meeting of Parties of the Montreal Protocol (a protocol to the Vienna Convention on the Protection of the Ozone Layer) is on the penultimate hours to finalize amendments on the agreement. In about two to four (2-4) hours, delegates will decide, among others, on the various proposals to phasedown the use of HFCs (Hydrofluorocarbons) as the cooling agents in airconditioning systems, refrigerations, and chillers; blowing agents for foam manufacturing; solvents; metered dose inhalers; and fire suppressants. The Montreal Protocol was agreed in 1987 and entered into force in 1989 by 197 countries to protect the ozone layer from ozone depleting substances (ODS) that were then mainly CFCs (Chlorofluorocarbons).

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Archives

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3. Build the understanding of journalists and the public on the need for action on SLCPs through effective engagement and support for media and communications

Radio interview over the FEBC, Far East Broadcasting Co., with several provincial branches all over the country. Received feedbacks from their listeners in Negros and Panay islands. It was also live streamed through the station's web site.



HFC advocacy over FEBC Radio Ehempto Program. Aug. 6, 2016. Melvin Purzuelo and Mikaela de Leon, the National Coordinator and Advocacy Officer of AK respectively interviewed by the Station President, Mr. Dan Andrew.

Live interview over CNN Philippine's Newsroom program with Ms. Mitzi Borrromeo. AK received positive reviews for this interview.



Former AK National Coordinator, Voltaire Alferez, guesting on the CNN Philippines talk show, "Newsroom" on the HFC advocacy. Aug. 30, 2016.

Provincial press covered the event in Iloilo City with news coverage in the local TV station, ABS-CBN and papers.



Home / Iloilo / Stop HFC use, advocates say

Stop HFC use, advocates say

SOLO September 9, 2016 • Comments Off

BY MERIANNE GRACE EREÑETA

ILOILO City – Environment advocates are calling for the phase out of hydrofluorocarbons (HFC) to curb global warming.

The use of HFC has been increasing and this is most evident in the use of air-conditioning units, according to the group Aksyon Klima Pilipinas (AKP).

"If we won't stop or at least minimize this, it will contribute to a 0.5-degree-Celsius warming by 2050," AKP national coordinator Melvin Purzuelo told reporters at the University of the Philippines Visayas (UPV) Iloilo City campus.

HFC is one classification of F-gases (fluorinated gases) used in refrigeration and air-conditioning, and found in foams, aerosols and solvents.

It was produced to replace CFC (chlorofluorocarbon) and HCFC (hydrochlorofluorocarbon), ozone-depleting substances controlled by the Montreal Protocol, an international treaty designed to protect the ozone layer.

While HFC does not deplete the ozone layer, they significantly contribute to global warming, what with warming effect greater than that of carbon dioxide, advocates say.

People use air-conditioning units to cool themselves, but this only contributes to global warming, Purzuelo said.

Panay News. Sept. 9, 2016

He encouraged prioritizing ventilation in the design of buildings and houses.

[There's the so-called] urban heat," he said. "Masinit ang outdoor tungod saing madamo nga sementado nga structures. Kon gab-i, nagasungaw ang init, Abg amo na naga-air-conditioning

Media interviews in Iloilo City. Sept. 2, 2016. Covered by local TV (ABS-CBN) and newspapers (PanayNews and Hublas nga Kamatuoran).



Statements have been covered by the broadsheets like the Manila Bulletin and digital media like InterAksyon



HOME NEWS BUSINESS SPORTS ENTERTAINMENT LIFESTYLE TECH NEWS

Gov't eyeing cuts in PH consumption of HFCs

by Philippine News Agency
September 17, 2016

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The country's campaign against climate change is entering a new phase.

Stakeholders concerned are now studying the possibility of phasing down or reducing natio hydrofluorocarbons (HFCs), which the country imports, and replacing these with viable alts warming that's causing climate change.



(Screenshot from Youtube / Explained in 90 Seconds: What Are Hydrofluorocarbon

Business sector: Cutting hydrofluorocarbons may impact fire protection

By Tricia Aquino, InterAksyon
October 29, 2016 8:42 PM



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InterAksyon.com
The online news portal of TV5

MANILA - In a meeting earlier this month in Kigali, Rwanda, climate organizations welcomed a legally binding deal reached by 197 countries - including the Philippines - to reduce the use of hydrofluorocarbon (HFC) gases, which contribute to global warming, but Xavier Alexander Soriano, a businessman and president of Fire Solutions, Inc., disclosed to InterAksyon that the deal would "greatly affect" the fire suppression industry because the core competency in this sector is centered on HFCs.

According to Aksyon Klima Pilipinas, made up of 40 civil society organizations dealing with climate change issues, HFCs are commonly used as cooling agents in air conditioning systems and refrigerators, as fire suppressants, and in metered dose inhalers, among others.

HFCs have long served as an alternative to chlorofluorocarbons (CFCs) after the 1987 Montreal Protocol was adopted to protect the earth's ozone layer from ozone-depleting substances, such as CFCs.

However, it was later discovered that HFCs were actually greenhouse gases that contributed to global warming.

According to Aksyon Klima, some HFCs even had more than 10,000 times the global warming potential of carbon dioxide, adding that the Philippines joined island countries in proposing an immediate

**Manila Bulletin
Sept. 17, 2016**

InterAksyon. Oct. 29, 2016

Davao Tri-Media (radio-TV-print) provided coverage for the learning event in the City.



HFCs just as bad as CFCs

Time to read: 1 minute

Share

AN ENVIRONMENTAL advocate urged consumers to stop using products that have hydrofluorocarbons (HFC), a type of greenhouse gas that is used as an alternative to chlorofluorocarbons (CFC), as this still contributes to climate change.

Like CFCs, HFC is mostly used in air conditioning, refrigerators, dispensers, aerosols, inhalers, fire suppressants, and food production.

National Coordinator of Akoyon Klima Pilipinas Engineer Melvin Purzuelo said that the rapid increase in consumption of HFCs will be responsible for the 0.5 degrees-Celsius rise in the world's temperature by 2100. If the practice continues to accelerate, the world will not meet the target for a limit to 1.5 degrees Celsius that poses serious climate threats and disasters.

"HFC has the higher global warming potential than carbon dioxide," Purzuelo said.

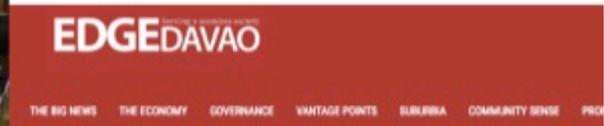
The HFCs has been used as an alternative to CFCs, a substance that causes ozone-depletion

Sun Star Davao. Dec. 31, 2016

Davao City Media interactions:

Live interview Radyo Patrol Davao on Dec. 27, 2016.

HFC Symposium covered by radio, TV and print media on Dec. 28, 2016.



Competitive Edge > Learning events on reducing global warming risks of HFC

Learning events on reducing global-warming risks of HFC

By **Edge Davao** - December 28, 2016

Akoyon Klima, in partnership with Christian Aid, DENR-EMB, and the Philippine Ozone Desk, has held nationwide learning events on Ozone-depleting substances (ODS), with particular focus on Hydrofluorocarbons (HFC), in a bid to mitigate global warming.

HFC, a compound found in common refrigerants, aerosols and sealants, has been widely-used for decades as an alternative to ozone-depleting Chlorofluorocarbons (CFCs). It was later discovered, however, that HFC has a higher global-warming potential, which when emitted into the atmosphere traps heat and contributes to global warming.

The nationwide event has kicked off at the University of the Philippines-Visayas in Iloilo City on September 2 and on World Ozone Day last September 16 and in Quezon City. The Mindanao leg of the event will be held at the Marco Polo Hotel in Davao City which will be attended by various sectors including students, academe, and the business sector.

The learning events will have the following objectives:

- Provide the participants with scientific information on the state of the ozone layer and climate change;
- Explain the characteristics of HFC on how it promotes the protection of the ozone layer but create problems to climate change;
- Assess HFC use in the Philippines and possible alternatives of the industries/sectors; and
- Provide updates about the current Philippine state on Climate Change and the developments on the Conference of Parties (COP22). Speakers Melvin Purzuelo, National Coordinator of Akoyon

EDGE Davao. Dec. 28, 2016

Campaigns in social media platforms like facebook, instagram and twitter.

social media



social media infographics

HFC
PHASE DOWN
MARCO POLO HOTEL, DAVAO CITY
DECEMBER 28, 2016

STOP POLLUTION
GO GREEN

Organized by:
AKSYON KLIMA PILIPINAS **THE BIG SHIFT**
christian aid

In Partnership with:

HYDROFLUOROCARBONS AND ITS IMPACT TO GLOBAL WARMING

Scientists warn against the effects of the greenhouse gas, Hydrofluorocarbons or HFCs to the atmosphere and its fast-growing contribution to global warming.

Have you heard of Hydrofluorocarbons?

While you may not have heard of the term Hydrofluorocarbons or HFC, they are very much a part of your daily life. They are chemicals used in common refrigerants, aerosols, coolants and other household and industrial products, and are powerful Greenhouse Gases (GHG).

Greenhouse Gases like HFC trap heat in the atmosphere and is the leading cause of global warming. HFC are compounds that comprise of hydrogen, chlorine, fluorine, and carbon atoms that destroy the stratospheric ozone layer essential to life on earth.

By using products containing HFCs, you may be unwittingly contributing to global warming.

If it is so bad, why are we still using HFC?

It has been used for decades since the Montreal Protocol and down the ozone-depleting Chlorofluorocarbons (CFC). It was later found out that while HFCs do not deplete the ozone layer, they have a very high global warming potential.

Now, HFCs have become the fastest growing Greenhouse Gas in the world. HFC merely contributes 1% of total global warming to date, but production, consumption, and emissions from factory-made gases are growing at a rate of 10-15% per year, which will cause a doubling every five to seven years.

HFCs warm up the atmosphere 100 to 1000 times more than Carbon Dioxide

Why should HFC be phased down?

In a Climate and Clean Air Coalition (CCAC) High Level Assembly, it was projected that a phase-down of HFC could avert a 0.5 degree Celsius of global warming by the turn of the century.

By improving the average efficiency of air conditioners sold in 2020 by 30% could reduce CO2 emissions by up to 25 billion tonnes over the lifetime of the equipment.

The Philippines should join the calls to phase down HFCs to save the environment from global warming.

In order to minimize the emissions of HFC, consumers should:

- Use qualified professionals to repair their appliances and automobiles.
- Dispose used appliances properly.
- Look out HFC free products with more environment friendly alternatives.

For more information on HFCs, contact Aksyon Klima Pilipinas:

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OZONE & CLIMATE
A LEARNING EVENT ON REDUCING GLOBAL WARMING HFC

SEPTEMBER 2 | 8 AM-12:30 PM
OCEB TRAINING ROOMS
UNIVERSITY OF THE PHILIPPINES VISAYAS

Financial Statements
June 1 to December 1, 2016

Budget Line		Approved Budget	Actual expense	Variance	Burn Rate (%)
1	LEGWORKING				
2	Communications (5 mos. X Php 1,500)	7,500.00	10,644.28	(3,144.28)	142%
3	Transportation	20,000.00	21,638.00	(1,638.00)	108%
4	Supplies	15,000.00	6,000.00	9,000.00	40%
5	Sub-Total	42,500.00	38,282.28	4,217.72	90%
6					
7	ADVOCACY MATERIALS				
8	Lay out media kit/issue brief	25,000.00		25,000.00	0%
9	Printing/production	35,000.00	28,000.00	7,000.00	80%
10	Digital campaign materials/presentation	25,000.00		25,000.00	0%
11	Sub-Total	85,000.00	28,000.00	57,000.00	33%
12					
13	PREPARATIONS FOR THE VISAYAS/MINDANAO CONSULTATIONS				
14	Travel to Mindanao and Visayas	25,000.00	26,994.00	(1,994.00)	108%
15	Meetings (Venue/Food)	6,000.00	4,555.00	1,445.00	76%
16	Materials	4,000.00	5,106.76	(1,106.76)	128%
17	Sub-Total	35,000.00	36,655.76	(1,655.76)	105%
18					
19	LUZON/METRO MANILA CONSULTATIONS				
20	Venue/Foods	15,000.00	50,000.00	(35,000.00)	333%
21	Resource Persons	18,000.00		18,000.00	0%
22	Materials/Supplies	6,000.00		6,000.00	0%
23	Transportation of Participants	12,000.00	13,592.00	(1,592.00)	113%
24	Documentation	6,000.00		6,000.00	0%
25	Sub-Total	57,000.00	63,592.00	(6,592.00)	112%
26					
27	VISAYAS/MINDANAO CONSULTATIONS				
28	Venue/Foods	15,000.00	119,850.00	(104,850.00)	799%
29	Resource Persons	10,000.00		10,000.00	0%
30	Travel of Resource Person/Staff	36,000.00	10,671.28	25,328.72	30%
31	Accommodation of Resource Persons/Staff	7,500.00	9,665.23	(2,165.23)	129%
32	Materials/Supplies	6,000.00	7,000.00	(1,000.00)	117%
33	Transportation for Provincial Participants	60,000.00	41,250.00	18,750.00	69%
34	Documentation	6,000.00	5,000.00	1,000.00	83%
35	Sub-Total	140,500.00	193,436.51	(52,936.51)	138%
36					
37	Project Coordinator Allowances (5 months @ Php 20,000)	76,800.00	76,800.00	-	100%
38	Sub-Total	76,800.00	76,800.00	-	100%
39					
40	Management fee (5%)	23,000.00	23,000.00	-	100%
41	Sub-Total	23,000.00	23,000.00	-	100%
42					
43	TOTAL	459,800.00	459,766.55	33.45	100%