

**Kingdom of Cambodia  
Nation Religion King**



**Royal Government of Cambodia  
Ministry of Environment**



**Strategic Plan 2009-2013**

Ministry of Environment, as a subordinating body of the Royal Government of Cambodia, responsible for the promotion of environmental protection and preservation of natural resources throughout the Kingdom of Cambodia, contributes to improving environmental quality, enhancing and retaining sustainable public health, national culture and socio-economics. Importantly, the Ministry serves as key coordinator and actor in formulating and implementing the environmental development policies and legal provisions. It also ensures sustainable and rational use and management of natural resources.

At the same time, the Ministry encourages and supports the participation from the people in various decisions making in the affairs of solving environmental issue and that of natural resources utilization. The Ministry collaborates with various line ministries of the Royal Government of Cambodia (RGC) as well as institutions, international organizations, non-governmental organizations, private sectors and people in fulfilling its mission.

**Department of Planning and Legal Affairs  
2009**



The **4<sup>th</sup> Strategic Plan (2009-2013)** of the Ministry of Environment is designed by the Department of Planning and Legal Affairs with the comments from the ministerial leaderships, along with coordination and information from various specialized departments of the Ministry.

This strategic plan has been published into two languages, Khmer and English versions by the Ministry of Environment of the Royal Government of Cambodia. This document states various aspects on environmental issues indicating the collective efforts to minimize the negative impact on the environment of Cambodia.

The document of this strategic plan will be handed out to any concerned stakeholders and others as many as possible. The Ministry's strategic plan can be photocopied or requested for republication or can be obtained from the Ministry. For the detailed information about this report, please refer to a contact person and the address below:

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## Message of H.E. Dr. Mok Mareth, Senior Minister, Minister of Environment

The **4<sup>th</sup> Strategic Plan (2009-2013)** of the **Ministry of Environment** is formulated by various subordinating departments and an indispensable collective contribution from other stakeholders in closed collaboration with the Ministry of Environment. In the past **16** years, the Ministry has achieved various major tasks, including formulation and development of policies and environmental legal framework, economic development, environmental sustainability, management and pollution control. These accomplishments also cover protection and preservation of natural resources, climate change and clean development mechanism, development of information technology and database, assessment of environmental resources, environmental education and information as well as institutional and human resource development, improvement of knowledge and public participation in environmental protection and management, and implementation of the International Framework Convention and various other regional level tasks.



Based on its extensive experience in environmental management and maturity in environmental affairs, the Ministry has overcome various difficulties and has attained various crucial outcomes for better and sound environmental and natural resources protection and preservation, and it has managed to ensure sustainable development in the environmental sector. The **4<sup>th</sup> Strategic Plan (2009-2013)** of Ministry of Environment has been formulated at the right time of the new term of the government implementing the Rectangular Strategy in phase II, under the leadership of **Samdech Akak Mohasena Padei Decho Hun Sen**, Prime Minister of the Kingdom of Cambodia who always pays great attention to the livelihoods and welfare of the Cambodian people throughout the country, and to the environmental sector considering it the most important priorities of the nation. In this regard, it is a good opportunity that the Ministry has chosen the right time to formulate and implement its **4<sup>th</sup> Strategic Plan**.

The **4<sup>th</sup> Strategic Plan** is a response to the concerns of the government and our people, and also an obligation of the Ministry of Environment to implement the policies of the Royal Government in this mandate. This strategic plan highlights environmental issues remaining unresolved, which keeps subsequently damaging environment due to various illegal activities seen as the factors casting severe impacts on our society whereby the Ministry of Environment shall take action to effectively deal with these problems. Some essential excerpts in this **4<sup>th</sup> Strategic Plan** have been concentrated on the basic information and the action plan in various specialized subordinating departments of the Ministry.

The **4<sup>th</sup> Strategic Plan** has also highlighted a number of appropriate activities on actual practice at various locations and has set forth various other activities to address the environmental issues in Cambodia. Those activities are related to a legal framework, technical and institutional competency, public awareness, monitoring and research, the prevention of impact on human health, environment and society as well as other tasks that help poverty reduction.

On behalf of the leadership of the Ministry, I would like to express my deep thanks and appreciations to those who have formulated the Strategic Plan and to the leadership of all levels as well as government officials who are in charge of the planning affairs for the Ministry. I take much pride in leaders and Ministry's officials for effectively designing this **4<sup>th</sup> Strategic Plan** without using any external financial assistance or even the government budget.



I would like to express my profound thanks to **Samdech Akak Mohasena Padei Techo Hun Sen**, Prime Minister, the wise leader of the Royal Government of Cambodia for his high leadership commitment and the support to the Ministry of Environment. I would also like to deeply thank those concerned individuals for their full support and collaboration for the preparation of this activities plan.

I do hope that this **4<sup>th</sup> Strategic Plan (2009-2013)** will be transformed into concrete activities both within the legal and technical framework indicating characteristics of economics and environment in its nature. It will also be a base of evaluation, solution and effective management of environmental issue for the future of Cambodia. Once again, I would like to appeal to all concerned stakeholders, institutions and every Cambodian citizen to join hand in hand with the Ministry of Environment in implementing this **4<sup>th</sup> Strategic Plan (2009-2013)**, by all means to achieve its ultimate goals such as environmental protection and natural resources preservation, the promotion of environmental quality and enhancement of our public welfare as well as enhancement of sustainable development for our Government and Nation. The Ministry of Environment wishes to apologize for any possible mistake which may occur in the preparation of this document.

**Phnom Penh, 15 July, 2009**  
**Senior minister, Minister of Environment**



**Dr. Mok Mareth**



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## PART 1: INTRODUCTION

### 1-1- Introduction

#### 1-1-1 Background

The *4th Strategic Plan (2009-2013)* of the Ministry of Environment is a byproduct of various strategic plans of the Departments subordinating to the Ministry, which definitely reflects a unanimous commitment of the Ministry of Environment to implement the Environmental Policy of the Royal Government. This strategic plan shows that not only the Ministry of Environment alone, but also the line ministries/institutions, private sectors and civil society play an important role in contributing to the implement of this strategic plan.

The responsibility for the environmental sectoral management is the burden of each department. The implementation of the *4th Strategic Plan* is based on the major reforms of the Cambodian current government. For the purpose of evaluating this implementation and improving the responding mechanisms leading to the possibility of the environmental solution, the Ministry of Environment has set forth various workable plans such as: formulation of law, regulations, institutional and technical capacity building, public awareness, monitoring and research studies, the control of impact on human health, environment and society as well as other tasks.

The *3 Strategic Plans* which have been so far designed and implemented successfully by the Ministry of Environment are:

- 1 The *1st 3 years Strategic Plan (1998-2000)* has provided a lot of experiences to the Ministry of Environment in every major field, in particular economics, social, cultural, infrastructure and environment protection. This plan helps to promote the socio-economic development in line with the economy-based policies of the Government.
- 2 The *2<sup>nd</sup> 3 years Strategic Plan (2001-2003)* has immediately responded and encouraged the direct responsive action to be taken, aiming at environmental protection, natural resources preservation and promoting sustainable development within the framework of considerable economic growth. The implementation of the *2<sup>nd</sup> 3 years Strategic Plan* has showed that environmental management has achieved a limited success. The responsibility for environmental protection and management of the natural resources of the nation is becoming more expanding in its scope.
- 3 The *3<sup>rd</sup> 5 years Strategic Plan (2004-2008)* of the Ministry of Environment is the result of the participatory process from leadership and government officials at all levels of all specialized departments under the coordination of the Department of Planning and Legal Affairs. This strategic plan set forth the Ministry Strategies to strengthen the specialized capacity through the training of officials at capital/provincial levels on issue of natural preservation, additional formulation of policies and environmental legal regulations, environmental pollution control, environmental impact assessment, environmental educational campaign and raising awareness.

Observationally, the *3<sup>rd</sup> 5 years Strategic Plan (2004-2008)* has clearly shown that the Ministry of Environment has strived hard for achieving the set strategic objectives. Many plans have remained un-implementable due to the shortage of technical and financial resources, the limited institutional capacity, insufficient environmental technical capacity, limited collaboration in response to the rapid economic change of Cambodia in these past years.



Therefore, the Ministry of Environment has prepared this **4th 5 years Strategic Plan (2009-2013)** to continue implementing the previously remaining activity plans and the new ones in the face of the current global economic crisis which might result in some impacts on Cambodia in all aspects.

#### **1-1-2 Aims & Objectives of the Strategic Plan Document:**

This document is to provide a clear vision and specific base for better implementation of the environmental management in Cambodia. This strategic plan is intended to effectively implement the Royal Government policies, especially the continuing implementation of the **Rectangular Strategy, phase 2**, through encouragement for better environmental management, particularly the natural resources management in a sustainable way, fostering public welfare, contributing to the prevention, minimization and removal of environmental pollution with participation from all strata of life of the Cambodian society and helping to ensure sustainable development.

#### **1-1-3 Scope:**

The **4th 5years Strategic Plan (2009-2013)** mainly emphasizes situational gaps which have been analyzed and identified from the evaluation of the outcome of the **3rd Strategic Plan** implementation and the emerging demands of Cambodia to realize the strategic action plan to meet the policy requirements of the Royal Government of Cambodia as well as the existing laws and regulations. This strategic plan determines and provides in detail the activities, responsibility, timeframe and clearly identifies the resources required for the implementation.

This **Strategic Plan** covers policies, laws, provisions, system of environmental and natural resources management, institutional capacity, education and training, public knowledge and awareness, technical infrastructure, pollution control and research studies, prevention of impact on human health, environment and society, the environmental impact assessment for the investment projects and implementation of various international conventions.

#### **1-1-4 Principles:**

The formulation of **4th 5 years Strategic Plan** is based on a number of key principles:

- Implementing the principle of integration of environmental management and ensuring sustainable development adopted by the international and international institutions appropriate with the situation and resources of Cambodia and in the form of inter-sectoral base.
- Encouraging and implementing the Strategic Plan based on the principle of Good Governance and Transparency.
- Using the existing laws, provisions and legal regulations for effectively implementing the Strategic Plans of the Ministry.
- Enhancing the safeguards of the public health, socioeconomic development and ensuring sound and good environmental quality.
- Minimizing and eliminating any destruction of the country's environmental resources.
- Coordinating the implementation of the Strategic Plans, taking into account the interest of national economy, human health safety, and environmental protection by examining the conformity and requirements of the Ministry as stipulated in the technical provisions supported by various specialized agencies/institutions.
- Coordinating the implementation of Strategic Plans based on Principle of Decentralization and Deconcentration.



- Identifying measures to fully support the implementation of this *4th Strategic Plan* in Cambodia till 2013.
- Ensuring to continue its stance following the international trend in the development of works set out in the Strategic Plans, and
- Ensuring that national laws and provisions, and social atmosphere can be best Operationalize, according to the requirements of the priority sectors contained in this *4th Strategic Plan*.

#### **1-1-5 Advantages of the Strategic Plan Document:**

The major advantages of the *4th Strategic Plan* are as follow:

- Providing accuracy and agreed views for setting the work objectives, priorities and achievements of the Ministry under the collaboration with various institutions in the effort of environmental protection and natural resources preservation.
- Improving the effectiveness of the cooperation among the Ministry's Departments on the activities which have been agreed upon.
- Providing the basis of management and monitoring on achievements which are necessary requirements within the environmental sector.
- Providing a clear vision and promoting the environmental, natural resources management and bio-diversity, enhancing the quantity and quality of natural resources with participation from all strata of life of Cambodian society within the region and international community.
- Fostering the living standard of the people through environmental protection and natural resources preservation with transparency, good governance and participation.
- Regularly promoting and improving the environmental quality and public health on the basis of environmental sustainability and clean development of all sectors and helps in development of micro economy and helps relieve the burden of the Royal Government.
- Upholding uncontaminated environment. The action can complement various other interests which Cambodian people continue to gain from the effort of the Royal Government in terms of sustainable development and rapid poverty reduction in large quantity.

#### **1-1-6 Basis of Strategic Planning:**

The basis for this *4th Strategic Planning* is supported by the *3rd Strategic Plan* document, the progress reports of each component, report of annual conference, report of outcome evaluation of the *3rd Strategic Plan*, the activities plan of various specialized departments and a number of other documents suggested by the environmental projects in Cambodia.

The *4th Strategic Plan* is based on what has been found in the situational analysis, the gaps and the lack of capacity of the implementing institutions, administration capacity, strong budget mechanism, unclarity of roles and responsibilities, and the limited contribution from the private sectors and civil society under the present existing policies and legal framework.

The more important basis in this *4th Strategic Plan* is the duties that the Ministry of Environment shall carry out includes formulation of policies, implementation, management and coordination.

In accordance with the *sub-decree on Organization and Functioning of the Ministry of Environment No. 57* ANKr.BK adopted by the *Council of Ministers* dated *25 September, 1997* and the *sub-decree No. 102* ANKr.BK adopted by the *Council of Ministers* dated *04 October, 2001* which the Royal Government has decided to offer additional duties to the Ministry of Environment by



upgrading some subordinating bodies to be the Department General of Administration and Finance and the Inspectorate General, and with the reference to the **sub-decree No. 72 ANKr.BK** adopted by the **Council of Ministers** dated **29 July, 2002** the four functions and duties of the Ministry of Environment stated above can be divided into a brief summary as follow :

❖ **Policy Development Functions**

1. *Develop policies for environmentally sustainable economic development*
2. *Develop policies and regulations on the management and protection of the environment such as environmental education and dissemination.*
3. *Develop policies, regulations and guidelines on initial environmental evaluation (IEE) and environmental impact assessment (EIA)*
4. *Develop policies, regulations and standards on the management and protection of environmental pollution; and*
5. *Develop proposals for the Government to accede to international agreements, conventions and protocols on environmental protection*

❖ **Implementation Functions**

1. *Protect and manage protected areas*
2. *Manage, control, monitor and inspect environmental quality*
3. *Review and monitor the environmental impact of development projects in the Kingdom of Cambodia*
4. *Promote public participation in environmental education, training, and dissemination*
5. *Initiate legal suits pertaining to environmental matters and encourage public participation in environmental activities*
6. *Promote investment in the environmental sector; and*
7. *Research and implement donor-funded projects.*

❖ **Management Functions**

1. *Develop baseline environmental information and data management systems*
2. *Develop technical and scientific environmental information management systems*
3. *Develop financial management and accountability information systems*
4. *Improve human resources management for the Ministry of Environment*
5. *Coordinate official documentation management and control systems.*

❖ **Coordination Functions**

1. *Strengthen cooperation with other organizations*
2. *Promote support and assistance from the national and international community for environmental projects*
3. *Develop environmental law expertise.*

**1-1-7 Methods of Strategic Planning:**

After the **2008 Annual Conference** in March, 2008 the Ministry has conducted a monitoring and evaluation on the outcome of the **3<sup>rd</sup> Strategic Plan** and has decided to formulate the **4<sup>th</sup> Strategic Plan** without continuing the **3<sup>rd</sup> Strategic Plan**. The methods in formulating the **4<sup>th</sup> Strategic Plan** are as follow:



1. Follow the decision of the **2008 Environmental Annual Conference**
2. Extract the pending activities in the **3<sup>rd</sup> Strategic Plan** and add various new activities in relation to the implementation of law, government recommendations, budget availability, cooperation requirement, public needs and necessities of specialized departments.
3. This **4<sup>th</sup> Strategic Plan** is a plan with contribution from all specialized departments of the Ministry of Environment.
4. In the **4<sup>th</sup> Strategic Plan** there was an initial meeting of the sectoral planners with the planning techniques provided by the experts from the department of Planning and Legal Affairs in order to assist the specialized departments for formulation of their individual activities plan, and submission to the department of Planning and Legal Affairs for consolidation.
5. Preparing the first draft and having a consultative meeting and doing a revision.
6. Preparing the final draft.
7. Submitting to His Excellency Senior Minister and Minister of Environment for approval and
8. Publishing and distributing to all implementing parties.

## **1-2 Current Important Achievements of the Ministry**

Up to this present stage, and as well as the result of the 3<sup>rd</sup> Strategic Plan implementation, the Ministry of Environment has successfully achieved the major tasks as summarized below:

### **1-2-1 Preparation, Development Policy and Environment Legal Framework:**

1. Law on Environmental protection and natural resources management with the enactment by the National Assembly dated 24 December, 1996.
2. Law on Natural Protected Areas promulgated by the Royal Degree (Preah Reach Kret) No. NS/RKM/0208/007 dated 15 February, 2008.
3. Law on Bio-safety promulgated by the Royal decree (Preah Reach Kret) No. NS/RKM/0208/006 dated 18 February, 2008.
4. Sub decree No. 27 ANKr.BK on Control of Water Contamination dated 06 April, 1999.
5. Sub decree No. 36 ANKr.BK on Management of Solid Waste dated 27 April, 1999.
6. Sub decree No. 42 ANKr.BK on Control of Air and Noise Pollution dated 10 July, 2000.
7. Sub decree No. 47 ANKr.BK on Management of Ozone Depletion Substances dated 17 March, 2005.
8. Sub decree on Upgrading the Department of Administration and Finance of Ministry of Environment to be the Department General of Administration and Finance.
9. Sub decree on Upgrading the Inspectorate of Ministry of Environment to be the Inspectorate General.
10. Sub-decree No. 57 ANKr. BK on Functioning of the Ministry of Environment dated 25 September, 1997.
11. Sub-decree No. 72 ANKr. BK on Conduct of Environmental Impact Assessment of the Ministry of Environment dated 11 August, 1999.
12. Prakas (Ministerial Declaration) on Collection and Transportation of Solid Waste in Phnom Penh capital.
13. Joint Prakas on the Use of Model of Administrative Forms for Resolving the Environmental Offences to the Judicial Police.
14. Inter-ministerial Prakas on Management of Waste-Solid Waste in provincial/Municipal level within the Kingdom of Cambodia.
15. Guideline on Management of Solid Waste in Factories, Enterprises and Companies.



16. Notification on Prohibition on Sale or Supplies and Combustion of Industrial Solid Waste.
17. Membership entry of the Climate Change Convention
18. Membership entry of the Convention on Control, Transportation and Disposal of Cross borders Harmful Waste or BASEL Convention.
19. Membership entry of the Viyan Convention and Montreal Protocol on Ozone Depletion Substances.
20. Membership entry of Stockholm Convention on Persistent Organic Pollutants
21. Membership entry of CARTAGENA Protocol.

### 1-2-2 Environmental Impacts Assessment:

According to the **Rectangular Strategy of the Royal Government** in Poverty Reduction, the Royal Government has promoted to have an open development in all sectors such as Industrial, Energy, Agriculture, Tourism etc. Therefore, every development of these projects will affect the natural and social environment that given demands for promotion of environmental protection, ensuring the sustainability of natural resources utilization and sustainability of economy, it is necessary that we shall first make the *Environmental Impact Assessment* before continuing any development project. In this process of the Environmental Impact Assessment, the Ministry of Environment has the purpose of:

1. Identifying the causes of environmental impact on every project and activity of the private sector or public sector. It shall be monitored and evaluated by the Ministry of Environment prior to the submission to the Government for approval.
2. Identifying the type and scope of the proposed project activities as well as the existing ongoing activities both private and public sector in order to do an Environmental Impact Assessment.
3. Encouraging participation from the public in the process of Environmental Impact Assessment and accepting all comments for the consideration of the project approval.
4. Observing and monitoring the implementation of environmental management plan of all those development projects.

The Department conducts monitoring and observation on Environmental Impact Assessment and has achieved a number of the following achievements:

#### ▪ **Reviewing and suggesting on Environmental Impact Assessment Report:**

The department has viewed and made a comment on Initial Environmental Impact Assessment Report (IEIA) and a completed Environmental Impact Assessment Report with comments contributed by public institutions engaged with the private and public development projects as follows:

No.	Type of Project:	Year 2004	Year 2005	Year 2006	Year 2007	Year 2008
1	Industrial Sector	02	09	10	07	08
2	Tourism Sector	00	04	00	01	01
3	Agricultural Sector	01	01	07	04	01
4	Infrastructure Sector	02	03	03	04	05
Total:		05	17	20	16	15

▪ **Investment Projects with the contract of Environmental Protection:**

The department has made a contract on Environmental Impact Assessment for the number of the projects as follow:

No.	Type of Project:	Year 2004	Year 2005	Year 2006	Year 2007	Year 2008
1	Agro-industrial	-	03	00	70	00
2	Industrial-Wax	-	45	61	00	54
3	Energy- Infrastructure	-	06	00	00	02
4	Processing products	-	03	00	02	00
5	Mineral Exploration Business	-	07	00	00	00
6	Agricultural Pesticides and Material Stockpile	-	00	04	00	03
7	Fuel Stockpile	-	02	00	00	01
8	Pharmaceutical Production Enterprise	-	00	00	00	01
9	Medical Equipments Production	-	01	00	00	00
10	Ports	-	00	00	01	00
11	Tourism	-	05	00	00	00
<b>Total:</b>		<b>16</b>	<b>72</b>	<b>65</b>	<b>73</b>	<b>61</b>

▪ **Projects follow up and monitoring:**

The follow up and monitoring activities of the Investment Projects are as follow:

No.	Type of Project:	Year 2004	Year 2005	Year 2006	Year 2007	Year 2008
1	Industrial sector	27	08	11	22	52
2	Infrastructure sector	00	01	00	00	00
<b>Total:</b>		<b>27</b>	<b>09</b>	<b>11</b>	<b>22</b>	<b>52</b>

▪ **Finance:**

The department has the duties in collecting environmental contribution fund and service fees for reviewing the Environmental Impact Assessment Report to be the national budget. In the past 2004 to 2008 the department has received the budget as follow:

No.	Description	Unit	Year 2004	Year 2005	Year 2006	Year 2007	Year 2008
1	Environmental contribution fund	USD	26, 300	10, 200	19, 000	24, 700	48, 400
2	Service fees	Riels	-	3,600,000	64,8000,000	135,000,000	32,400,000



### 1-2-3 Management and Environmental Pollution Control:

- Monitoring and evaluation of public water quality aimed at maintaining and preserving biodiversity, particularly Tonle Sap Lake that can be contaminated by the Mineral Exploration Activities in the surrounding areas.
- Checking the air quality and taking the sample from some important areas by comparing with the standard of Ministry of Environment.
- Taking the rain water sample and analyzing it for the diagnosis of the acid rain.
- Implementing the Viyan Conference on Protection of Ozone Layer and Montreal Protocol on Ozone Depletion Substances dated 27 June, 2001. Therefore, Cambodia has an obligation to take part in preservation of Ozone Layer and Prevention of Ozone layer depletion by chemicals produced and consumed in a number of sectors.
- Having completed the draft of the Sub-decree on Chemical Classification and Labeling at the end of 2007. This sub-decree is to implement the Chemical Classification and Labeling in Cambodia aimed at improving effectiveness in management and controlling every chemical substances, chemical products and chemical products used for protection of public health and environmental quality as well as the facilitation for chemical trafficking, chemical products and chemical products used throughout the country.
- Issuing the joint Prakas between Ministry of Environment and Ministry of Public Work and Transportation No. 104-085 BrK. BStHSK.DChh dated 20 March, 2006 on Control of Vehicle Air-conditioning System. The drafting of this Prakas is to contribute to the reduction in the use of Ozone depletion substances (ChhTChh-12) within the Vehicle Air-conditioning System and moving toward the completed removal of the use of these substances in the year 2010 under the Montreal Protocol.
- Issuing a Prakas No. 315 BrK.BStH on Management and Storage of Battery Waste (the flush light battery) dated 08 October, 2007. It is found that there is an increase in the use of all types of battery and the battery is identified and considered as a severe hazardous waste (it contained a lot of poisonous metal) to the environmental quality and public health. The Ministry has therefore prepared a Prakas for guiding the competent authorities, including the local authorities to take part in collection and storage of battery waste of all types in an appropriate manner, ensuring good safety which can prevent the emission of the poisonous substances presented in the battery waste to the environment.
- Organizing a National Program on Cold Substances Management Plan with the support by the Royal Government of Cambodia dated 22 July, 2004 after having ratified to be a member of Viyen Convention and Montreal Protocol dated June, 2001, Cambodia has an obligation to implement a number of projects to strengthen the capacity of the custom officials, CAMCONTROL and the Air-conditioning technician and public awareness campaign with the aim of contributing to the reduction and removal of the use of Ozone depletion substances in Cambodia in accordance with the Montreal Protocol.
- National Plan for implementation of Stockholm Convention on Organic Insoluble Substances (2006): On behalf of the signatory country to the Stockholm Convention and in order to contribute to prevention of the emission of Organic Insoluble Substances and in moving toward a completed removal of the stated substances, the Ministry of Environment plays a role as a coordinating body in the implementation of Stockholm Convention with participation from line ministries has drafted the National Plan for Implementation of Stockholm Convention wherein this National Plan was approved by the Council of Ministers in its plenary session dated 02 June, 2006 and has been also published for the dissemination.
- Having prepared an Action Plan for managing the Battery Waste with environmental safety (2005) under the assistance project of the Secretariat of the BASEL Convention on Control of



Transportation Movement and Disposal of Cross borders hazardous waste. This prepared Action Plan is to determine the approaches for better management of battery waste, not creating harmful effect on the environment and public health and to determine the major working activities to be implemented including: Promotion of understanding of all stakeholders (state agencies, private sectors and civil society....) on issue of risk and safe management approaches for the battery waste, the formulation of legal instruments for strengthening the BASEL Convention based management.

- Having prepared the National Information Collection on Management of Chemical Substances in Cambodia which was first organized in 2004 by the Ministry of Environment in collaboration with concerned institutions under the technical consultation from the United Nations Environment Program (UNEP) and the United Nations Institute of Training and Research (UNITAR), and the document has already been published. The formulated document is to have a common document relating to chemical substances which are presented in Cambodia such as an information on type and quantity of chemical substances imported and consumed in Cambodia, legal framework and institutions involved with the management of chemical substances in Cambodia and assessing the environmental impact and gaps in management of chemical substances.
- Has made an inventory of the Persistent Organic Pollutants (POPs) of 12 items (9 items are type of agricultural, 1 item is PCB industrial chemical and 2 items are chemical pollutants which can be resulted from the (Dioxin) and (Furans) combustion determined in the Stockholm Convention has been first implemented in 2004 by the Ministry of Environment and with the collaboration from concerned institutions, the document has been published. The important purpose of making an inventory is to determine the presence of Persistent Organic Pollutants (POPs) in Cambodia, and the source or place where there is a use or stock of those substances because of the presence of POPs which are emitted into the environment cause a severe harm to the human and animal health and cause a long term pollution of environmental quality (from 5-15 years).
- Having made an inventory of the first battery waste in 2004: Collecting information on the number of imported batteries, the management condition and the impact of the waste batteries at the place of selling, distribution, repairing and the use of battery and the place that buys the used or broken batteries including the place for inventing the waste batteries in Phnom Penh and in 4 provinces/municipalities (Sihanouk Vile, Siem Reap, Svay Rieng and Battambang province).
- Having made an inventory of the first electronic and electrical equipments waste in 2006 which mainly focused on the 6 types of equipments: TV, computers, mobile phones, refrigerator, air-conditioner and washing machine. The important purpose of making an inventory is to make a study on the condition of management of electronic and electrical equipments waste such as identifying the number of equipments imported and distributed on the markets and the domestic consumption through collection of information from import, sale and distribution companies and from various concerned parties such as hotels, guesthouses, organizations, institutions, home based repairing places and the road users. This collection of information is conducted in Phnom Penh capital, Preah Sihanouk vile, Kandal, Kompong Cham, Battambang and Svay Rieng province. Along with that, the information on waste of those equipments (quantity and disposal) including risks that can be caused by the waste of those equipments have also entered into the inventory report.
- Having made an inventory of the first Mercury Emission into the environment in 2007 which mainly focused on the sources involving the use of mercury such as hospitals, clinics, (mercury thermometer and the use of Amalgam substances in dental section), sites of gold mineral exploration business by the use of mercury including the a number of sources of mercury emission such as the burning of medical waste, the waste fire at the garbage



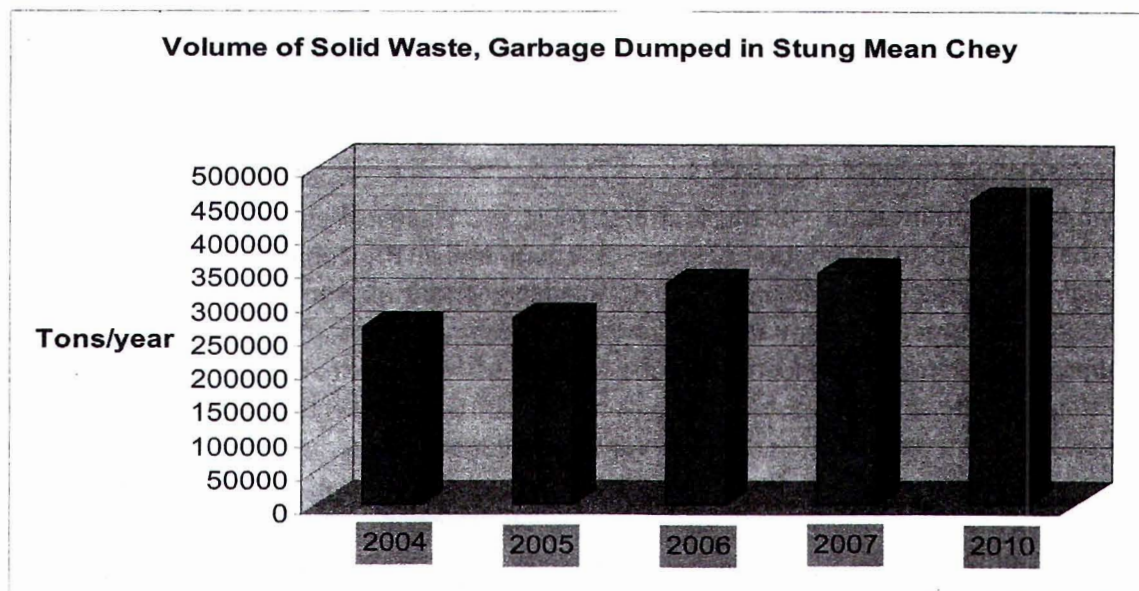
dumping sites together with various fossil fuel combustion (vehicles that use the copper mixed petrol) and so on. This collection of information is conducted in Phnom Penh capital, Preah Sihanouk and other 14 provinces. The important purpose of making this inventory is to identify the source that has the use of or that can cause the mercury emission into the environment and to make estimation on the number of mercury used and emitted into the environment according to each source (including the waste). Along with that, the problem of risks that can be caused by mercury has also been entered into the inventory report.

- Having collected and compiled the data on Garbage Waste Quantity in Phnom Penh capital: base on the observation of this last 4 years, the waste quantity in urban areas, capital and provincial has been greatly increased. Particularly, for Phnom Penh capital where the number of population is greatly increased (about 1.4 millions) and there is a development activity in almost all sectors has been concentrated in Phnom Penh which is the cause of the increase in waste quantity from 260 thousand tons in 2004 to 340 thousand tons in 2007, and this quantity can be increased up to 450 thousand tons in the next 4 years (2010) as shown in the graphic below:

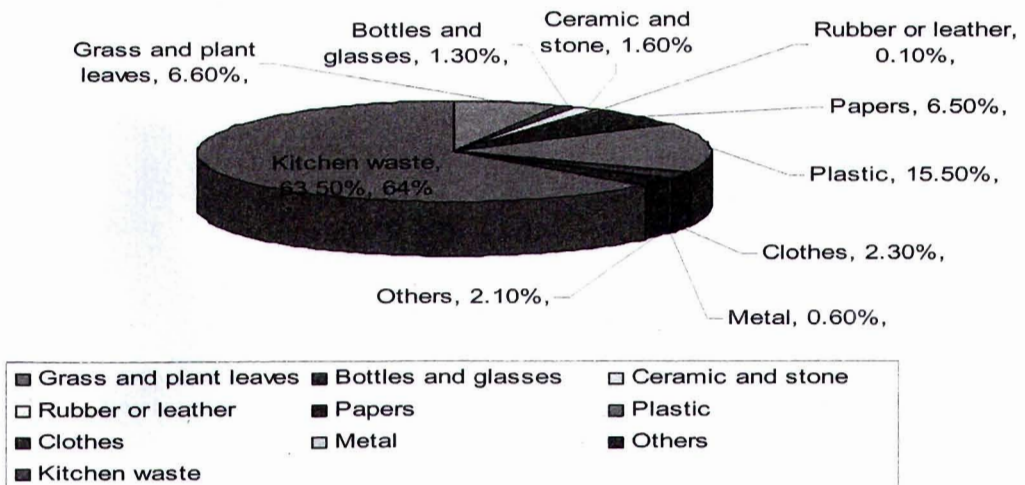
#### **Solid Waste, Garbage dumped in Stung Mean Chey:**

Calculated as ton:

- Grass and plant leaves
- Bottles and classes
- Ceramic and stone
- Rubber or Leather
- Papers
- Plastic
- Clothes
- Metal
- Others
- Kitchen waste



### Composition of Solid waste/garbage in Phnom Penh Capital

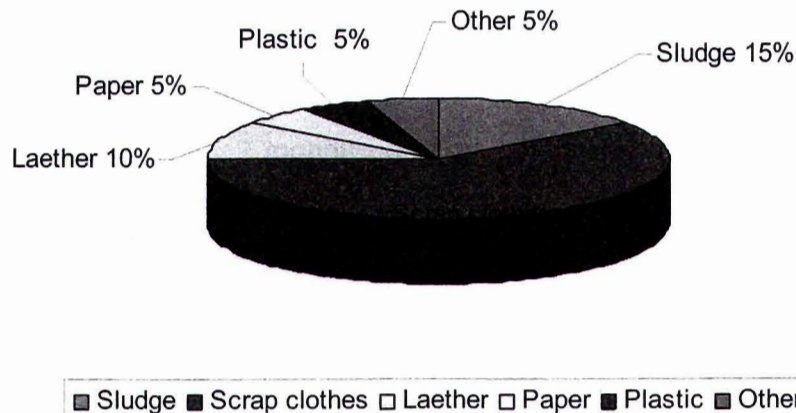


- Inventory of Factories Waste collected at the dumping site of the industrial waste: The Company has collected and transported the waste from various factories in Phnom Penh, Kandal and Kampong Speu province in order to dispose at garbage dumping site of the company at Ang Snoul district of Kandal province. With the growing progress of the garment industry, it has caused the factories waste to increase year by year. But at the same time with the increase of the factories waste in **2006, 2007** and **2008** the recycling activity of the waste clothes within the country and the export activity is increased. The component and quantity of the factories waste at the site of Sarom Trading Company is shown in the graphic below:

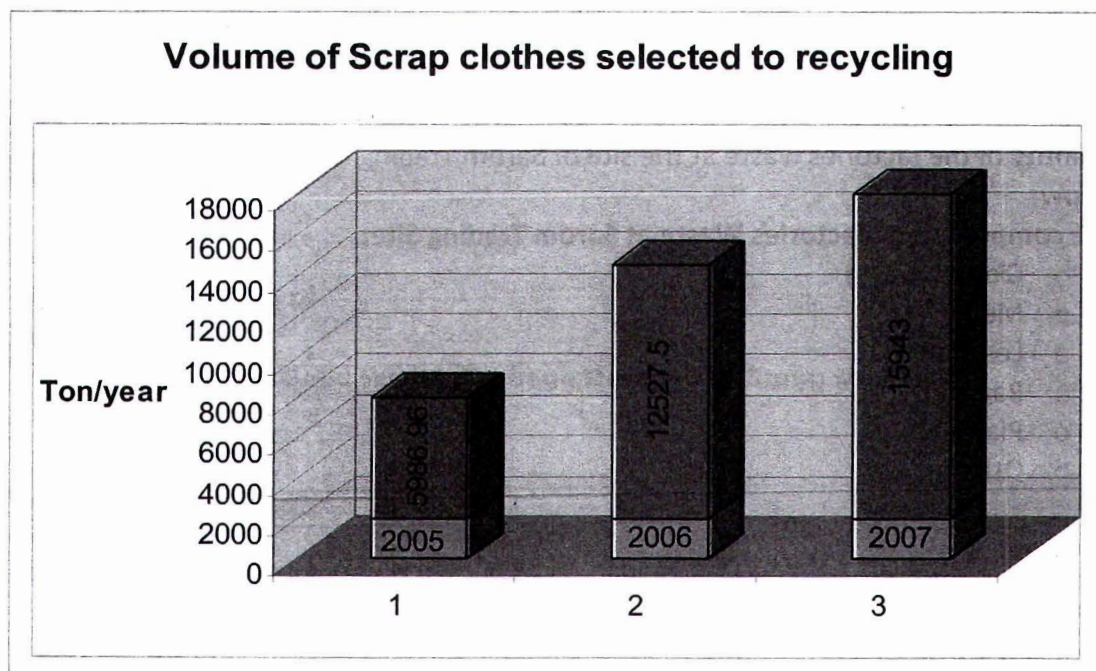
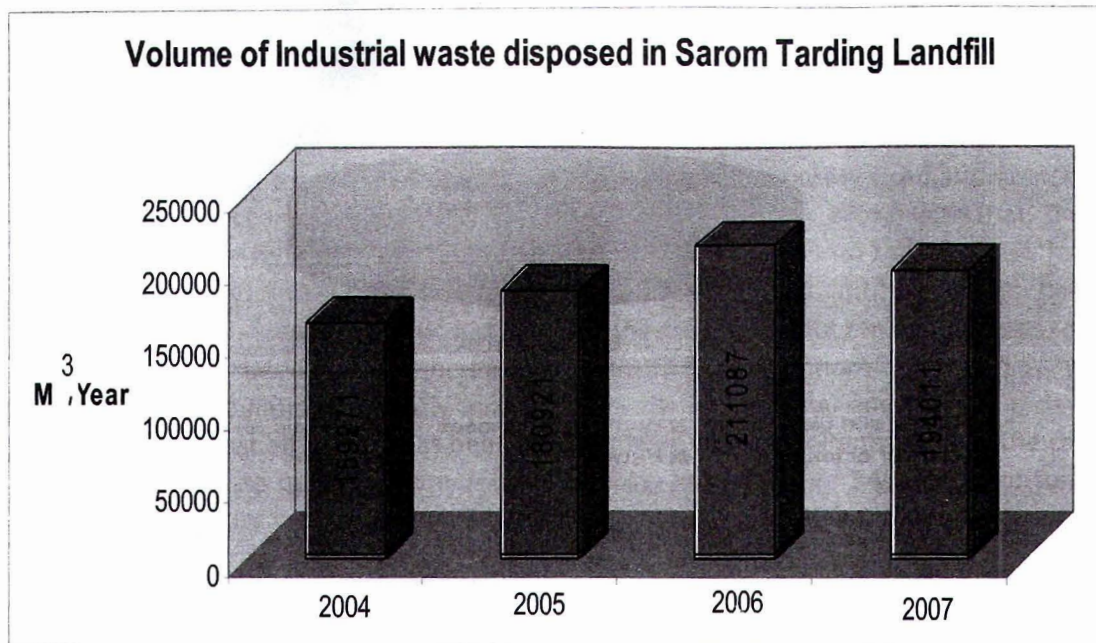
#### The component of Factories Waste at Sarom Trading Site:

- Clothes waste
- Mud
- Leather
- Paper
- Plastic
- Others

### Composition of industrial waste disposed in Sarom Trading landfill



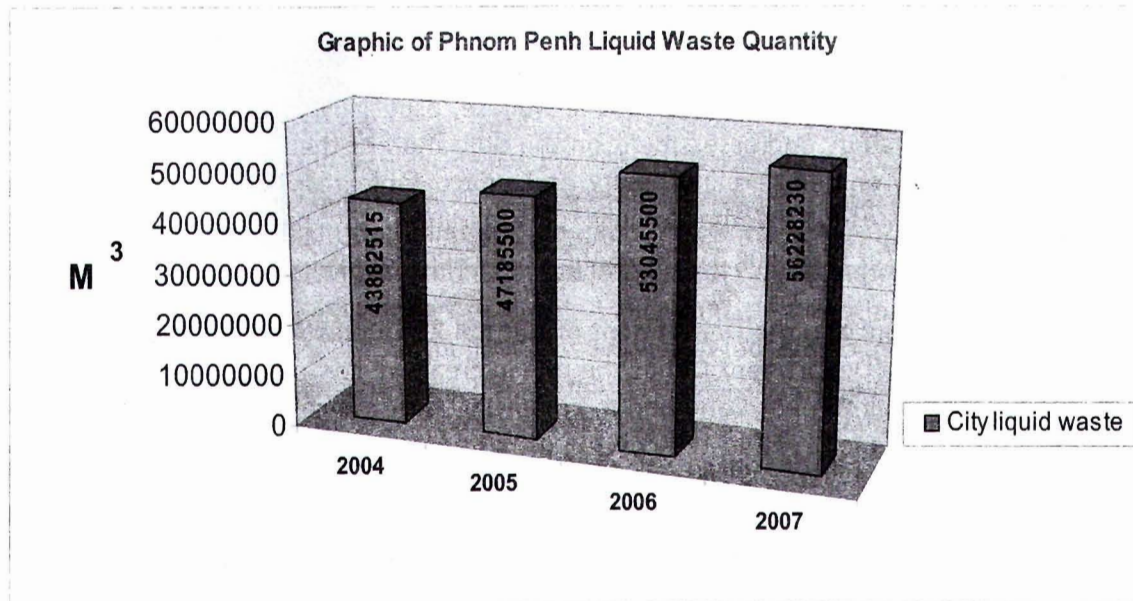




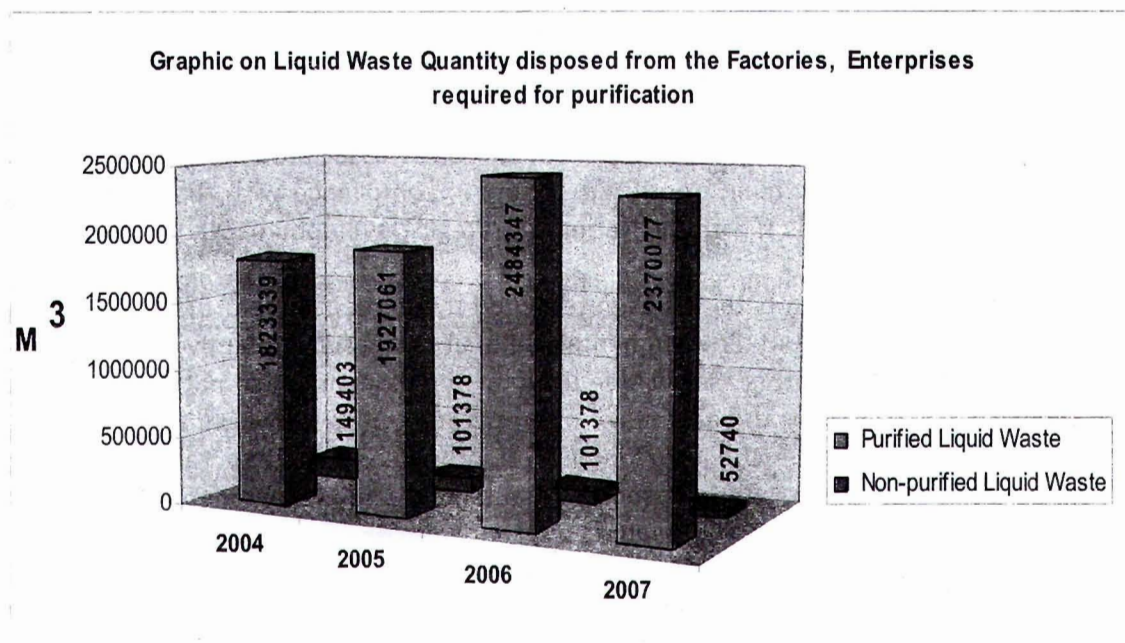
- Having complied the data of drainage waste in Phnom Penh: base on the growth of the population and the development of all sectors in urban areas, Phnom Penh capital and province caused the disposal quantity of drainage waste from the residences and business locations and liquid waste of the factories are greatly increased within these last few years. In fact, the quantity of the drainage waste in Phnom Penh is increased from 43,882,515 m<sup>3</sup> in 2004 to 56,228,230 m<sup>3</sup> in 2007.

### Graphic of Phnom Penh Liquid Waste Quantity:

- City liquid waste



- Particularly, the liquid waste of the factories in Phnom Penh capital and Kandal province required the treatment for purifying prior to the disposal into the public drainage system and the intake source, there are **1,972,769 m³** in **2004**, in which the liquid waste which has been purified is **1,823,339 m³ (92%)** and the liquid waste of **2,422,817 m³** in **2007** in which the liquid waste of **2,370,077 m³** has been purified (**98%**).
- **Graphic on Liquid Waste Quantity disposed from the Factories, Enterprises required for purification:**
  - Purified Liquid waste
  - Non-purified Liquid waste





#### 1-2-4 Natural Resources Assessment and Management of Environmental Data:

A number of tasks among other tasks of the Ministry of Environment are preparation of report on Assessment of the Natural Resources and State of National Environment. In order to contribute to the poverty reduction and promotion of public welfare, especially the development of economy and social affairs, the study and assessment on the utilization of the change of natural resources, bio-diversity and environment are necessary and unavoidable tasks to ensure the sustainable utilization of natural resources, the balance of ecosystem, the protection and promotion of environmental quality for the living as well as the future generations.

To realize this great concept, the Department of Natural Resources Assessment and Management of Environmental Data (Department D) has the role in creation, compilation and publication of the Report on National Environment Condition in complying with the roles and duties determined by the Ministry of Environment within the context of national sustainable development of economy and social affairs.

The purpose of the Natural Resources and National Environmental Assessment, especially the assessment of environmental performance is to:

1. Raise public awareness on trend and natural resources condition-environment.
2. Provide fundamental basis to senior leaders in issuance of sectoral decisions in a better manner, and
3. Be easy in the measurement of the progress in economy, social affairs and environment toward the future sustainability.

In order to contribute to implementing the 3rd Strategic Plan (2003-2008) so far, the department of Natural Resources Assessment and Management of Environmental Data has realized its plan according the roles and responsibilities set out by the Ministry with the production of the National Report on Assessment of Natural Resources (***National Environmental Treatment, 2005***), step 1 which has been allowed for the use and publication in general in the purpose of promoting an understanding and participation from all stakeholders both public and private sector.

The report on Natural Resources and National Environmental Assessment indicated the concerns-the number of prioritized environmental issues related to natural resources and environment. Besides this, various issues relating to the development of economic sector and social affairs have also been included in this report. According to the principle, the identification of concerns-environmental issues has been organized and with the basis associated with the infrastructure sector, including other national main prioritized sectors in compliance with the "Pressure- State-Impact-Solution" framework and with the National Strategic Development Plan.

Based on the concerns-environmental issues determined by the department of Natural Resources Assessment and Management of Environmental Data, it shall subsequently identify the new additional environmental indicators that will be used for the assessment of natural resources and national environment, step 2 for the advantage of preparation of the Environmental Strategy and Action Plan and for building up the development of other concerned sectors. To successfully achieve this, the Department of Natural Resources Assessment and Management of Environmental Data shall necessarily collect, compile, analyze, use and manage the data- information on bio-physical, economy, social affairs and climate according to the concerns-national environmental issues and environmental indicators which will be further determined. Moreover, the Department shall also strengthen the management of data on natural resources, bio-diversity and environment in order to ensure the data-high quality information through the promotion of participation and

exchange of data among public institutions and private sectors including the donor countries, NGOs and other International organizations who are development and implementing partners by using the information technology-information management system and internet.

#### **1-2-5 Environmental Education and Information Distribution:**

Department of Education, Information and Environmental Dissemination has the responsibility in initiating, coordinating and cooperating with the national and international agencies as well as private sector, religious institution and local communities to work together on education, promotion of capacity and raising awareness of environmental issues. In being the assistant to the Ministry of Environment, the department of Education, Information and Environmental Dissemination has fruitfully operated its environmental base on environmental education which focus mainly on 4 major tasks including the Formal Environmental Education and Non- Formal Environmental Education, the issue of capacity building and environmental information dissemination.

##### **❖ Formal Environmental Education:**

For the success of Formal Environmental Education, the Ministry of Environment has closely collaborated with the Ministry of Education, Youth and Sports in mainstreaming the environmental education into the curriculum of formal education system from primary to junior secondary, senior secondary and higher education level. The environmental education is also included in the Buddhism education system. At a primary level, the environmental education is conducted through a process of merging various subjects such as Literature, Mathematics, Biology, Civic education and Social studies. Particularly, at a secondary level both in junior and senior secondary education, there is a separate subject for teaching environmental issue.

##### **❖ Non- Formal Environmental Education:**

For the non formal environmental education, the Ministry has set forth many programs for the promotion of public understanding on environmental issues wherein there is preparation of environmental campaign, natural concert program which later resulted in having a Youth Debate Program on Environmental Issue and Community Based Environmental Education program. The environmental campaign shall be carried out every year in the capital and all 24 provinces such as:

1. National and World Environmental Day on 5th of June,
2. Earth Sanitation Day in September and
3. National Environmental Day in November.

The important purpose of organizing the environmental campaign is to spread the importance of environmental quality to the public as well as to encourage the voluntary participation in protection and maintenance of environmental quality in our Kingdom of Cambodia. Particularly, for the “Youth Debate on Environmental Issue” which has been initiated and carried out first at the end of 2004 with the purpose of providing knowledge on environment to the public and all government officials through media system (Television). The program of “Youth Debate on Environmental Issue” is organized on a quarterly basis and also with the regular Television show on the National Television of Cambodia. The major objectives of this program include:

- Dissemination of information and promotion of public awareness on importance of environment, other environmental issues and solution to the prevailing environmental problems.



- Promotion of public awareness on issues of Natural Resources such as bio-diversity, fisheries, flooded forest, forestry, clean water and energy etc. and consequences affecting the living standard of the people.
- Making people, students and civil servants have an opportunity in the exchange of environmental related knowledge such as preventive methods on consequences of natural resources degradation for supporting the living standard of people and the environment.
- Strengthening the youth network for studies research and working together for the cause of environment and development.
- The public visitors will obtain information and new knowledge from the discussion/debate.
- Offering an opportunity for capacity building in negotiation and advocacy on issue of environmental management.

Besides that, the Ministry of Environment has conducted an outreach program to various communities through the collaboration with concerned ministries, Seila program, decentralization and centralization program and civil society. This community based environmental education is mainly focused on the sustainable use of natural resources, the implementation of environmental impact assessment at community level, issue of energy and environmental contamination.

#### ❖ *Capacity building:*

Besides the environmental education both formal and non formal system, the Ministry of Environment has also organized the capacity building and strengthening program for the officials of the Ministry as well as the officials various concerned ministries through trainings, workshops and meetings both within the country and abroad. In addition to this, the Ministry has sent officials to study the courses on environmental issue at the post graduate level in various countries including Japan, Thailand and countries in European Union, Philippine and Australia etc.

#### ❖ *Dissemination of Environmental Information:*

The dissemination of environmental information has been made through the media system such as news paper, radio and Television. This dissemination is mainly focused on the Ministry activities as well as the activities of the leader participating in the environmental campaign, meetings and seminars, etc. Moreover, the Ministry has produced the quarterly environmental magazine, regularly published and distributed to all stakeholder institutions such as executive, legislative and judiciary as well as local authorities.

### **1-2-6 Protection and Preservation of Natural Resources:**

The protection and preservation of Natural Resources of the Kingdom of Cambodia with the better eco-system of the land area covered by the natural protected areas of the 23 sites account for the total land area of 18 percent of the entire land area of Cambodia. In that respect, 18 sites with boundaries have been demarcated and the map has been produced for the official use which is considered as the priority works in the effort of management, protection, preservation, use of natural resources and sustainable development for the interest to the people, economic and to the social affairs.

Law on Natural Protected Area is promulgated by the Royal Decree (Prah Reach Kret) No. NS/RKM/0208 dated **15 Feb., 2008** contributing to the process of protection, preservation of natural resources and bio-diversity such as ability for the monitoring, abolition of anarchies within the protected areas and helping to reduce the illegal activities on natural resources, to prevent the



land encroachment and illegal deforestation. This important effort is made, including the warning notice, making a forced contract for the offenders, and another number of the offenders were arrested and sent to a court process. A number of exhibits were seized and the land area, which was illegally occupied within the protected area, and has been returned to be the state land property. Along with this, the community of natural protected area which has been established is taking part in preservation of natural resources and bio-diversity since this community has the program of implementing the dissemination of environment information, the capacity building, the human resource development as well as the studies research. In order to reduce the poverty along the protected areas, the investment is allowed for the development of natural tourism which can provide employments to the poor people to follow various occupations through this investment. But the environmental protection and management of natural resources continue to face obstacles related to the institutional framework, the coordination among institutions as well as the concerned authorities.

For the law enforcement in the natural protected area, the general observation is that all kinds of illegal activities on natural resources which used to happen within the protected area such as illegal logging by using the chain saw, the clearance and back filling of forest land to be their ownership, the burning of forest for cultivation, the hunting of all kinds of wildlife have been investigated and subsequently, the suppression measures have been taken against those activities and have achieved the following results:

Table on total exhibits confiscated and disposed by fire in the year 2004 till 2008 within the natural protected area are briefly presented as bellow:

No	Exhibits seized and destroyed are:	Year 2004	Year 2005	Year 2006	Year 2007	Year 2008
1	Precious Wood	0	193m <sup>3</sup>	38.6 m <sup>3</sup>	169.11 m <sup>3</sup>	86.13 m <sup>3</sup>
2	Round Log	0	360.14m <sup>3</sup>	483.46m <sup>3</sup>	229.54m <sup>3</sup>	150.96m <sup>3</sup>
3	Plywood	361.5m <sup>3</sup>	845.36m <sup>3</sup>	515.03m <sup>3</sup>	539.67m <sup>3</sup>	474.54m <sup>3</sup>
4	Wood mill and workshop	22	26	53	51	6
5	Chain saw/ power saw	296	408	237	329	492
6	Cultivator/ modified machine and mining explorative machine	20	27	4	52	60
7	Generator and water pump	10	20	15	48	6
8	Electrical fishing equipment	1755	166	50	31	84
9	hand saw	55	94	71	76	74
10	Battery	176	73	23	76	38
11	Sassafras oil	0	0	635	87 barrels	18950
12	Sassafras pot	0	0	29	26	0
13	Warning/educating and making contract	1861	6461	2749	2497	1456
14	File the case against the offender	17	57	147	10	86
15	Under the charge and referred to the court	0	0	53	6	43
16	charcoal production site	197	292	517	179	126
17	Charcoal wood	211 Kg	0	0	3203 Kg 40	2504 Kg



					sacks	
18	Victory cottage and camp of offenders	225	424	324	391	357
19	Fence post	0	36844	19091	7376	7599
20	Land areas withdrawn	0	0	2672,75 ha	373,85 ha	138.30 ha
21	Wildfire fighting	28	92	0	0	15
22	Traps	5763	13779	9715	9252	4383
23	wildlife	395	352	782	186	0
24	Sign of land grabbing / illegal land occupation	0	426	663	272	306
25	Petrol	2027	2156	1325	1219	1049
26	Dassel	2125	615	1332	599	280
27	Black oil	195	2060	457	334	369
28	Vehicles	27	26	22	22	0
29	Motorbikes	0	16	6	6	18
30	Cow carts	414	302	272	167	201
31	Bicycles	0	0	9	4	6
32	Tents, knives, axes	474	664	533	406	835

The **23** sites of the natural protected area are the core responsibilities of the Ministry of Environment and the area has been divided into **4** areas of management. There are: Core area, Preservation area, Area for Sustainable use and Community area. A lot of achievements of the management of natural protected area includes the making of map setting the boundaries of the **11** natural protected areas, plating **280** posts for the community of the protected areas, construction of stations, sub stations and the headquarter of the protected area of **68** sites, the renovation of the roads network and roads for protecting wildfire within the protected area with the length of **110** km. A number of natural protected areas are equipped with **6** firefighter vehicles, motorbikes and some other equipment at each of the stations.

Ministry of environment has conducted the research and collected the data on varieties of plant and animals, herbal plants, reptiles, birds, mammals, butterflies, insects and the connection between elephant and human and also placed the automatic machine for recording the presence of all varieties of wildlife existing within the natural protected areas. According to the record of observation from the different natural protected areas, it has shown that the number of wildlife has been increasing such as antelopes around **30** to **50** are found in the wildlife sanctuary of Samkos mountain and the elephants around **10** to **20** are found in Phnom Prich wildlife sanctuary, the peacocks around **50** to **100** are found in Kulein Promtep wildlife sanctuary and the birds variety around **1500** couples are found in the Snoul and Prek Tol area, in the area of Tonle Sap lake bio-reserve, etc.

Regarding the human resource development at the national level, the Ministry has **112** management officials, **95** are males and **17** females and have **720** park rangers are placed to serve in all **13** sites of the protected areas. They have the duty to daily patrol and keep surveillance, and suppress the offences such as illegal logging, illegal land clearance, illegal hunting and fishing. Moreover, the judicial police officials have been filing the cases to the court on various cases of offence.

According to the Deika (order) of the capital and provincial level, the total land area of **2,350,05** Hectares are so far withdrawn from the illegal land occupation within one of the protected areas.



Particularly, the state institution officials have collaborated with the Express Wild cow Project counterpart officials; have done an education campaign and public awareness in each province and in a number of the protected areas. In a period of 9 months early of this year, the project working group has conducted an education and public awareness campaign to people as well as students in Kampong Speu, Koh Kong, Kampong Cham, Mondulhiri, Kratie, Banteay Meanchey, Pursat and the knowledge on **wildlife conservation** through documentary movies projection related to this work and the Ministry has achieved a number of the following results:

- Raising Awareness of **Wildlife and Forestry Conservation** to the people in total 12 times with public participants about 23,374 persons.
- Raising Awareness of **Wildlife and Forestry Conservation** to the people and soldiers who based at the headquarter of the battalion No. 2 of Koh kong and the battalion No. 1 of Smach Meanchey district.
- Having provided the lesson on **Eco-system and Wildlife Extermination** to students at primary school with 182 classes and with total students of 4,464 persons.

Besides the tasks achieved above, we have provided various human resource trainings with the participants from civil servants, public and also armed forces. The training courses have been conducted for the direct implementer at the grassroots level, including officials of provincial environment department, park rangers, commune councilors, staff of partners' organization and the community based committee to promote the awareness in contribution to the natural resources management with the following topics:

- Concept of Natural Resources Management with local community engagement
- Process of organization and coordination of the Natural Protected Area Community
- Planning approaches for management of the Natural Protected Area Community
- Dispute settlement in utilization of natural resource.

Year of Implementation	Outcomes Achieved:	Participants:		Others
		Total:	Female:	
2004	3 batches	97 persons	12 persons	Supported by Seila program and partner organization
2005	5 batches	118 persons	13 persons	Supported by Seila program and partner organization
2006	4 batches	95 persons	6 persons	Supported by Seila program and partner organization
2007	6 batches	154 persons	27 persons	Supported by NCDD (Kor Zhor Vor Vor) and partner organizations
2008	5 batches	146 persons	17 persons	Supported by NCD and partner organizations

Every year, there is a meeting of the Natural Protected Area Communities Network under the support of Seila program or the National Committee to support Decentralization and Deconcentration Policies as well as the collaboration from various partner organizations which have been implementing within the Protected Areas. The attendee of the meeting of the Natural Protected Area Communities Network are technical officials from provincial, district and local level, the commune council and the committee of Natural Protected Area Communities. This activity is done in the purpose of improving knowledge and awareness on protection and management of natural resources. The representing the outcome of meeting of the Natural Protected Area Communities Network showed in the table below:



Year:	Day / Month:	Venue:	Participants:		Others
			Total:	Female:	
2006	22-23 Mar	Conducted in Siem Reap province	53 persons	5 persons	Supported by Seila program
	10-11 Aug	Conducted in Battambang Province	70 persons	13 persons	Supported by Seila program
2007	03-04 Mar	Conducted in Kampong Thom province	54 persons	5 persons	Supported by NCDD
	30-31 Jul	Conducted in Kampot province	69 persons	9 persons	Supported NCDD
	04-05 Oct	Conducted in Banteay Mean Chey	64 persons	10 persons	Supported NCDD

In this past 4 years every data has been clearly managed and controlled as well as disseminated to the public for the purpose of raising awareness.

### 1-2-7 Implementation of International Conventions

#### ❖ *Achievements accomplished:*

In the implementation of various international conventions, the Ministry of Environment has accomplished a number of major achievements as follows:

#### ✧ *Bio-diversity Convention*

- Formulate the national strategic plan and action plan on bio-diversity
- Prepare the 3rd & 4th national communication on bio-diversity for ASEAN Bio-diversity Center
- Prepare the National Capacity Assessment document for implementation of 3 conventions: bio-diversity conventions, United Nations Framework Convention on Climate Change (UNFCCC), and United Nation Convention on Combating against Wilderness.
- Prepare the document on Implementation of national strategic plan and action plan on bio-diversity.

#### ✧ *Climate Change*

- Prepare the booklet of aid memory on climate change and clean development procedure.
- Prepare the book on sustainable energy in Cambodia, the condition and potentiality assessment for the plan of clean development mechanism.
- Prepare a book on clean development mechanism.
- Prepare the National Adaptation Program of Action (NAPA) to Climate Change

#### ✧ *RAMSAR Convention*

- Prepare the draft of national strategic plan for the wet land area management

#### ✧ *Collaborate with national and international institutions to implement the international conventions.*

- Collaborate with relevant institutions such as: Ministry of Agriculture, Forestry and Fishery, Ministry of watery resource and meteorology, Ministry of Planning and other relevant ministries in preparation of national strategic plan and action plan and the national communication document on bio-diversity.

- Collaborate with various international organizations network such as ASEAN bio-diversity center and bio-diversity management secretariat based in Montreal for exchange of information and experiences on sciences and technicalities regionally and internationally for the effective international convention implementation.

#### **1-2-8 National and International Cooperation**

In the issue of cooperation, the Ministry of Environment has so far accomplished a number of significant achievements. Those achievements are briefly outlined as follow:

##### ***A- Communication with National and International Organizations:***

Coordinate and communicate with development partners and international organizations in preparation of the proposal for environmental management. Attending the inter-ministerial meetings with development partners at CDC on Drafting of National Guideline for implementation and Action Plan on harmonization and collaboration with decentralization project, the management of natural resources and environment is in close collaboration with the Ministry of Interior. The collaboration and organization of National Workshop on alteration of activities for the sustainable coastal area development of Cambodia are oriented towards the national development in Sihanouk vile city. The discussion meeting with DANIDA organization is to enhance the cooperation and exchange of experiences as well as to mobilize the assistance for environmental protection.

##### ***B- ASEAN Environmental Work:***

The Ministry has facilitated sending officials to attend the ASEAN Working Group Meetings of the technical level officials, senior level officials, ministers' level of environment with the senior level officials of Malaysia, Philippine, Thailand, Singapore and ASEAN member states which has been alphabetically organized. Moreover, the Ministry of Environment has also accepted to host the ASEAN Working Group Meeting on Environmental Multilateral Agreement held in Siem Reap and collaborated in organizing the 5<sup>th</sup> ASEAN Working Group Meeting on Environmental Sustainability of ASEAN City held in Phnom Penh capital.

##### ***C- International Relations:***

The Ministry has translated the letter of exchange messages of the meeting on Establishment of National Botanic Park collaboratively organized by Ministry of Environment of the Kingdom of Cambodia and People Republic of China and also arranged the welcoming hospitality for the Chinese visiting delegation to Cambodia in order to discuss the Kulein Mountain Botanic Garden Project in Siem Reap province. The ministry has facilitated sending **17** officials to attend the trainings and workshops related to environmental management in China, Korea, Hungary, New Zealand, Japan and United Kingdom. Some officials were also facilitated and sent to attend the international meeting on Asia Pacific for Global Change in Indonesia and the Ministers level meeting on Asia-Europe Environment in Copenhagen city of Denmark. Along with this, the Ministry has also facilitated and formulated the Memorandum of Understanding (MoU) on Bilateral Environmental Cooperation between the Kingdom of Cambodia and the Republic of Korea.

##### ***D- Cooperation on Environmental Related Projects:***

For the environmental related projects, the Ministry has organized the discussion meeting on proposal for assistance from Japan-Asian. Requesting letter has been to include the assistance



proposal from the Republic of Korea c into the agenda of the official visit of Samdech Prime Minister to the Republic of Korea. The Ministry has also held meeting on Japanese grant for Cambodia, Loa and Vietnam. The project proposal for ASEAN assistance and the Triangle Growth Area project of Cambodia, Vietnam and Loa PDR has been formulated with financial and technical assistance from Japan. For the local NGOs, the Ministry has studied and suggested an idea and assessed the project proposal of CEDAC on Naturally Based Agricultural Development and the Farm Access to Innovation Research (FAIR) project.

## **PART 2: ANALYSIS OF CURRENT STRENGTH AND WEAKNESS:**

### **2-1 Analysis of Common Strength and Weakness of the Ministry:**

Considering the past 16 years, the Ministry of Environment which is the governmental institution in charges of environmental issues still faces the challenges of the shortcomings, and still experiences the same problems repeatedly largely arriving from the lack of institutional capacity, environmental techniques with the new developments and challenges from financial crises. Even though the Ministry has gained the support from the Royal Government in decisions upon policy and legal system, the international conventions and many legal regulations, the major constraints facing the Ministry seemed inevitable such as lack of legal regulatory framework, incomprehensive management, having no sufficient information and data, inconsistent communication with various institutions, limited support from the Royal Government, national and international NGOs and unsystematic environmental management. We see that the Ministry still have a number of weaknesses as found in the evaluation of the 3<sup>rd</sup> Environmental Strategic Plan and such matters remained unresolved till this very present stage. The table below shows the Strength and Weakness faced by our Ministry:

<b><i>Strength:</i></b>	<b><i>Weakness:</i></b>
1- Many laws and legal regulations	<ul style="list-style-type: none"> <li>• Limited implementation of International Conventions</li> <li>• Limited awareness and understanding of the law enforcement of provincial/municipal officials</li> <li>• Lack of budget for promotion of legal campaign and law enforcement.</li> </ul>
2- Clear division of Roles and Responsibilities	<ul style="list-style-type: none"> <li>• Lack of incentive/motivation for the task achiever</li> </ul>
3- Human resource has been subsequently trained and improved in the environmental skill	<ul style="list-style-type: none"> <li>• Limited quality of trained officials</li> <li>• Ineffective use of the ministerial human resource</li> <li>• Gap in human resource management</li> </ul>
4- The environmental trend of the country seems secure with the attention from the national institutions, local communities on value of environment, with the support from various development partners.	<ul style="list-style-type: none"> <li>• Limited supporting budget on environmental sector</li> <li>• There are many selfish people which cause difficulty in both protection and law enforcement</li> </ul>
5- Issue of environmental protection and management is integrated into the national socio-economic development plan.	<ul style="list-style-type: none"> <li>• Implementation and evaluation is not achieving effectiveness to a great extent.</li> </ul>
6- There is cooperation with national	<ul style="list-style-type: none"> <li>• Limited cooperation among concerned</li> </ul>

<b>Strength:</b>	<b>Weakness:</b>
and international agencies on management, protection and preservation of environment	<p>institutions</p> <ul style="list-style-type: none"> <li>• A number of concerned institutions lack of sufficient time to contribute their ideas and common solutions.</li> </ul>
7- There are national and international NGOs with a plan to assist the environmental protection and preservation	<ul style="list-style-type: none"> <li>• Most natural resources protection and preservation projects are short term and led by experts from abroad</li> <li>• Officials of a technical office in each line ministry not really qualified and lacking experience in leading the work.</li> <li>• Lack of technical collaboration between project officials of NGOs and technical officials of the government.</li> </ul>
8- There is a management net work from national to capital, provincial and to local level	<ul style="list-style-type: none"> <li>• There is a delay in communication from a national to local level and from local to national level.</li> <li>• Environmental Management system of Wetland areas, Watershed and coastal areas in the capital city, provincial capital and local is still limited.</li> </ul>
9- There exists a Royal Government Policy on Decentralization and abolition of anarchy in forestry, wildlife and fishery exploitation by delegating power to local communities to take part in prevention of crimes, protection, management and utilization of natural resources in a sustainable way.	<ul style="list-style-type: none"> <li>• Strengthening and organizing the community engagement in natural resources management is limited.</li> <li>• Most of the public are not really aware of rights and obligations in contribution to the natural resources management with technical officials and with the local authorities</li> </ul>
10- Collaborating and participating in the contribution of ideas from lower level to higher level officials within the department in order to learn experiences from each other enable the working process of the department to result in better effectiveness.	<ul style="list-style-type: none"> <li>• Legal awareness raising and environmental education is not broadly carried out. People still not have a clear understanding on obligations in taking part in protection and prevention of environmental contamination (e.g.: technically inappropriate disposal of garbage).</li> </ul>
11- The work performance of each department has a clear plan and regular monitoring once a week.	<ul style="list-style-type: none"> <li>• There is a gap in Steps of Plan Implementation due to the lack of budget.</li> </ul>
12- The ministry has a strict implementation measure towards the source polluters to take part in prevention and reduction of environmental contamination (imposes the fine to every offence which is contrary to the laws, sub-decrees, Prakas etc. of the Ministry	<ul style="list-style-type: none"> <li>• Every offence emerging at the present is mostly committed at night, the time where the monitoring officials rest and committed by the people who are living near the surroundings that are easy to commit the environmental offences, e.g.: trying to drain out of liquid waste from laundry into the rivers without going through any treatment process.</li> </ul>



<b>Strength:</b>	<b>Weakness:</b>
of Environment and forces the source contaminator to arrange the technical clearance of waste from the chain of his/her production that affects the environment).	
13- There is a regular monitoring at the contamination sources where the environmental offences has occurred and the situation has been improved and the offenses have gradually decreased year by year.	<ul style="list-style-type: none"> <li>The monitoring is not equipped with sufficient tools for monitoring (Camera, smoke emission detector, standard sound testing machine and vibrato etc.).</li> </ul>
14- The Ministry has created one industrial waste dumping site to enable the investors to locate their wastes.	<ul style="list-style-type: none"> <li>The work process in the offices of each department is not yet smooth and consistent</li> </ul>
15- The state revenue collection from analysis, experiment and fine imposition is enough according to the plan.	<ul style="list-style-type: none"> <li>The type of analysis parameter within the laboratory is still limited and not able to respond to the demand sufficiently.</li> </ul>
16- The environmental impact assessment is required to be conducted for every project and development activity by law on Environmental Protection and Natural Resources Management.	<ul style="list-style-type: none"> <li>Penal provision concerning the environmental impact assessment is complicated to implement the EIA study and it tends to be a bit light for the offenders in terms of punishment.</li> </ul>
17- The process of environmental impact assessment is the project and development activities are prescribed in the sub-decree.	<ul style="list-style-type: none"> <li>The sub-decree on the process of environmental impact assessment still has a lot of gaps.</li> </ul>
18- There is a general guideline to assist the arrangement for environmental impact assessment.	<ul style="list-style-type: none"> <li>This general guideline lacks a lot of gaps and is not yet officially approved.</li> <li>There is no guideline for environmental impact assessment of each sector.</li> </ul>
19- There are technical officials with high commitment in fulfillment of tasks.	<ul style="list-style-type: none"> <li>Not sufficient technical officials</li> <li>Limited capacity of technical officials</li> <li>No incentive/reward to the technical officials</li> </ul>
20- There is a joint Prakas between Ministry of Environment and Ministry of Economy and Finance on fixing of service fee for monitoring the Report on environmental impact assessment and monitoring of the project implementation.	<ul style="list-style-type: none"> <li>This Joint Prakas has a lot of gaps and the revenue collected could not be withdrawn for direct use serving the works involving with the Report on environmental impact assessment and monitoring of the project implementation.</li> </ul>
21- There is a budget payment into Environmental Contribution Fund from the project and the development activity owners	<ul style="list-style-type: none"> <li>A number of project owners had no allocated budget into the Environmental Contribution Fund and there is no law on imposing of fine on this case.</li> <li>There is no incentive for the officials who try their best to encourage the collection of budget</li> </ul>

<b>Strength:</b>	<b>Weakness:</b>
	payment into this Environmental Contribution Fund.
22- There is a division of roles and responsibilities on environmental impact assessment to various capital/provincial departments of environment through the Prakas on Delegation of Power of the Ministry of Environment.	<ul style="list-style-type: none"> <li>Capital/provincial departments of environment still not have sufficient capacity to fulfill this task.</li> <li>This Prakas on Delegation of Power has many gaps, which does not indicate clarity in division of roles and responsibilities.</li> </ul>
23- There is a Training Curriculum on environmental impact assessment	<ul style="list-style-type: none"> <li>This Training Curriculum has many gaps.</li> <li>This still has no Training Toolkit according to that training curriculum.</li> <li>Not having budget for implementing the training course.</li> </ul>
24- Materials/equipments: (01 vehicle and fuel) and a small amount of mission budget for carrying out the tasks.	<ul style="list-style-type: none"> <li>The available materials/equipments could only meet a small part of the demand.</li> <li>The mission budget is in small quantity comparing to the actual demand of expenditure, and the release of this budget is usually delayed.</li> </ul>
25- There is a number of cooperation with the concerned ministries	<ul style="list-style-type: none"> <li>This cooperation is still limited. It mainly can be made only within the framework of monitoring and suggestions on the Report of Environmental Impact Assessment.</li> </ul>

## 2-2 Key Sectoral Challenges of the Ministry:

### 2-2-1 Formulation of Policies, Laws and Environment Legal Regulations

For the period of more than one decade, the Ministry of Environment has paid the serious attention to formulation of many Policies, Laws and Environment Legal Regulations to ensure the effectiveness of the environmental quality and the bio-diversity conservation of the Kingdom of Cambodia. The following main Laws and Official Regulations on Environmental issues have been adopted and implemented in the natural resources management and conservation of bio-diversity are:

- Law on Environmental Protection and Natural Resources Management, 1996
- Law on Natural Protected Areas dated 15 Feb., 2008
- Law on Bio-safety dated 18 Feb., 2008
- Royal-decree (Preah Reach Kret) on Establishment of Natural Protected Areas, 01/11/1993
- Royal-decree (Preah Reach Kret) on Establishment and Management of Tonle Sap Biosphere Reserve dated 10 April, 2001
- Sub-decree on Control on Water Pollution, 1999
- Sub-decree on Solid Waste Management, 1999
- Sub-decree on Process of Environmental Assessment, 1999
- Sub-decree on Control on Air Pollution and Noise Disturbance, 2000
- Sub-decree on Management of Ozone Layer Pollutants dated 17 March, 2005

The draft of sub-decree on management of the living modified organism which is the official regulations with technical nature for implementation of law on bio-safety, and the draft sub-decree



on bio-safety has been completed and been referred to the Council of Ministers for consideration and approval.

In 2009, the Ministry of Environment has organized another draft of new law on ***“Receipt and Sharing of profit from Genetic Resources and Traditional Knowledge”*** to ensure the sovereignty of the Kingdom of Cambodia on national bio-diversity resources and genetic resources, and the equitable sharing of profit gained from those resources.

Along with the above outcomes, the Ministry of Environment still experiences a number of challenges in formulation of policies and a legal framework as follows:

- The awareness and understanding of environmental policies of most of officials are still limited.
- Lack of real legal qualified officials in the area of environment
- Laws have high techniques, which requires specific expertise, materials/equipments and laboratories to serve for an effective implementation e.g.: Laws on bio-safety and so on.
- Collaboration with line agencies in implementation of laws as well as suppression of offenses is not yet in a cohesive manner.

## **2-2-2 Environmental Impacts Assessment**

- Collaboration from line ministries and concern agencies is limited.
- Lack of clarity in work performance and responsibilities between Ministry of Environment and other state agencies.
- The Long Term Strategic objectives of the Ministry of Environment have been taken into account in which it can influence to the action plan of each technical department such as the department of observation and assessment of environmental impact.
- No specific law on the functioning of environment impact assessment studies
- No strategy on environment impact assessment
- The guideline on reporting of sectoral environment impact assessment is yet to organize.
- A number of development project owners do not understand and have no experience in reporting the environmental impact assessment.
- The capacity of technical officials at some Capital/Provincial departments of environment is still limited in the implementation of the process of environmental impact assessment.

## **2-2-3 Control and Prevention of Environmental Pollution**

- There are functional and responsibilities overlapping between the Ministry of Environment and other state agencies involving the issue of environmental pollution.
- The Long Term Strategic objectives of the Ministry of Environment have been taken into account the action plan of each technical department, particularly the Department of Environmental Pollution Control.
- Criteria of environmental contamination and model standards are not yet in place.
- Provisions, guidelines and standards for the control and management of pollutants and the disposal of pollutants are still limited.
- Limited cooperation with various agencies/institutions
- No law related to the Environmental Quality Control. Therefore, it is necessary to formulate the strategic plan on Environmental Quality Control for 2009-2013 in Cambodia as early as possible.
- The public lack of comprehensive understanding on environmental protection, especially the issue of environmental contamination. Therefore, the Department of Environmental

Pollution Control and the capital/provincial Departments of Environment still need the strengthening of the public environmental education for the people, particularly those who are living in the surroundings of the pollution sources.

#### **2-2-4 Natural Resources Assessment and Management of Environmental Data**

The preparation of Prototypes such as (1) *Set of core indicators* (2) *Database* and (3) *Technical Guideline* shall necessary be made. The general set of core indicators and database of model environment shall be organized to support the natural resources assessment- environmental performance for the sustainable environmental development and protection. Technical guideline shall be made for the assessment of environmental performance and integration of environmental concerns into the socio-economic policies. These works are considered as the starting point of the affirmation for establishing the basis of implementation according to the specific purpose. Along with this, the technical training on the use of guideline is the indispensable task for officials responsible for collection and analysis of information on natural resources, bio-diversity and environment.

The core activities shall focus on (1) *Need assessment and gap analysis* (2) *Creation of environmental indicators, sample selection by computer and database, and* (3) *Setting up and implementation of national environmental performance assessment system*. The needed assessment and gap analysis shall be organized in detail in order to identify the important needs in environmental, technical and human resource development, and the technical guideline. Environmental indicators, computer sampling and database shall be organized, according to the main national priorities. Based on this ground, the assessment system of natural resources performance and national environment will be moving in a better way. Obviously, the national environmental performance assessment can also be used and implemented, according to various national priorities such as infrastructure, tourism, energy, industrial, agricultural, fishery and forestry sector, etc.

The dissemination of reports on natural resources and environmental assessment is the last important work which cannot be avoided. The dissemination is divided into three common activities: (1) *development of website and home page*, (2) *production of documents and materials for dissemination* and (3) *organizing the meetings/national seminar*. At the same time, the discovery and completed outcomes arriving from the implementation of action plan shall be disseminated through meetings, workshops and skills training courses. The dissemination of outcomes is also focused on a set of assessment indicators of environmental performance from one step to another, on database and the national sample of the environmental performance assessment system.

Therefore, the creation, the provision of opportunities and the support to the process of management system of natural resources and environmental database of the Department D is highly effective for the data use and analysis-the basic information in preparation of reports on the state of natural resources condition assessment is useful to the planning process of the sustainable environmental and economic development.

#### **2-2-5 Educational Campaign and Awareness Raising on Environmental Sector**

- There is the functional and responsible overlapping between Ministry of Environment and others governmental agencies involving the environmental issues including the issue of environmental education.



- The Long Term Strategic objectives of the Ministry of Environment have been taken into account the action plan within reach of its each technical department, particularly the Department of Environmental Education, Information and Dissemination (Department E).
- Providing public the rights and access to environmental information being not yet formulated.
- Model or standard on the supply of environmental education services is not yet organized.
- Cooperation with various institutions is limited
- No provision and guideline relating to the provision of environmental education services. Therefore, it is necessary to formulate the environmental educational strategic plan for the sustainable development.
- The people do not have a comprehensive understanding of environmental issues. Therefore, the Department E demands strengthening the public environmental education for the public, especially for all common people.
- Collaboration with various institutions is limited.

#### **2-2-6 Protection, Preservation of Natural Resources and Bio-diversity**

Although there is law on natural protected area already existing, but the law enforcement still faces problems such as the lack of materials for implementation of law in the natural protected areas, the collaboration from the local authorities within the natural protected areas is still limited. The effort in management, protection, prevention and suppression of all forms of offences along the natural protected areas, and consequently the repeated anarchy and abuses still occur in the same form from one area to other due to the facts that these illegal activities are pre-organized such as there is the mastermind man to mislead the people to migrate from their location to go to the protected areas and clear the forest land, thus claiming for their ownership, making the intervention letter to take the State land as theirs and request for land registration, and request for rights to utilize the land in the natural protected areas by ignoring any law. In that context, the implementation of law in the natural protected areas has often faced a number of the following challenges:

- The National Park ranger officials who keep guarding each natural protected area always sustain the threats from the armed people and a number of the powerful people.
- The inflow of migrants to encroach and occupy the forest land within the natural protected areas to claim for their ownership and have increasingly carried out their plantations.
- The offences are usually taking place in the same form from one area to another as part of the pre-organized act.
- A number of letters of request for the forest land within the natural protected areas to claim for their ownership are organized as the network with the influential representatives and usually have some powerful men (government high ranking officials) officially intervene knowingly in the affairs of the protected areas encroachment.
- The collaboration of local authorities at the capital/provincial level is still limited to assisting in controlling the forestry offences and the illegal forest clearance for the land ownership.
- A number of the capital/provincial courts examine and decide the case of forestry offences which are referred to by the environmental competent officials, and yet there are some capital/provincial prosecutors having exercised their power to defend the illegal logging/deforestation seized by the competent officials and blocked the offences suppression activities by the competent officials.
- There are some bad guys intimidating the community committee of the natural protected areas.
- There are people who sneak into the community forest areas to commit some illegal activities.

- Collaboration within the committee and member of the community is not yet strong enough at the moment.

## **2-2-7 Implementation of International Conventions**

In implementation of International Conventions, the Ministry of Environment has encountered a number of constraints as follows:

- The cooperation of the concerned institutions, national/international NGOs is limited, particularly, the collection of information, data and documents related to the implementation of International Conventions are difficult due to the reasons that all of these are under the direct control of the respective institutions.
- The human resource of the Ministry in implementing of various international conventions is still limited.
- Insufficient budget from the national budget planning for the effective implementation of international conventions.
- Limited capacity of the Ministerial officials is to do liaison with international agencies in terms of seeking budget support.
- The cooperation between the national and international agencies is not yet good enough due to the overlapping responsibilities of various concerned agencies, especially between the Ministry of Environment and Ministry of Agriculture, Forestry and Fishery.
- Lack of contribution and cooperation from various stakeholders such as local authorities and communities make it difficult for implementation of the conventions.
- Lack of clear sectoral expertise is in the area of a Model analysis and climate change adaptation.

## **2-2-8 National and International cooperation**

- Some works are overlapping and complicated due to lack of good collaboration between subordinating bodies of the Ministry of Environment. Those works are: the implementation of conventions, treaties or memorandum of understanding where the Ministry or Cambodia is a signatory, and the implementation are not yet effective.
- Particularly, the division of responsibilities and participation in some programs abroad is not transparent.
- The selection and assigning of the officials are not made through the Department of International Cooperation which is the specialized department.
- There is difficulty in collaboration with inter-ministerial/institutions, especially development partners and other donors due to lack of awareness and recognition from the foreign affairs agencies to the Kingdom of Cambodia and as well as the foreign affairs agencies abroad. Moreover, there is a lack of information and documentation for the research work.
- Difficulty in global contact for strengthening the international cooperation on the environmental sector is due to a low level of understanding of international affairs and negotiations on global environmental issue. The budgets for sending officials in charge to attend the ASEAN meetings or various other bilateral meetings remain limited.

## **2-2-9 Environmental inspection**

- Strengthen the capacity of the officials of General Inspectorate
- Enforce the discipline to officials of subordinating bodies of the Ministry of Environment and the capital/provincial Departments of Environment.



- Limited capacity of number technical officials of capital/provincial Departments of Environment.
- Assign the officials of General Inspectorate to regularly follow up every implementation of legal instruments of the Royal Government and of the Ministries concerned with the environmental sector.
- Create the inspection agent based in the capital/provincial Departments of Environment for the provision of information to the General Inspectorate.

## **PART 3: STRATEGY AND ACTION PLAN**

### **3.1 Vision and Specific Objectives**

#### **3-1-1 Vision of Ministry of Environment**

To promote the environmental protection and natural resources preservation throughout the Kingdom of Cambodia in order to contribute to the environmental improvement, to sustain the public health, national culture and social economy, the Ministry of Environment as the coordinator for organizing and implementing the environmental policies and official regulations in order to enhance and ensure the reasonable use and sustainable management of national resources. At the same time, the encouragement and support for the public participation in various decisions making on environmental problem solving and on equitable utilization of natural resources. To enhance the cooperation with other ministries within the Royal Government as well as with various institutions, national and international NGOs, private sectors and the public in fulfilling its mission.

#### **3-1-2 Specific Objectives of the Ministry in Environmental Management**

The major objectives of the Ministry are to ensure the environmental protection and natural resources preservation in maintaining the sustainable development, improving the environmental quality and human health through the integration of strategic plan and environmental vision for carrying out the socio-economic development, the decisions making and the poverty reduction of the people.

### **3-2 National Political Stance on Sustainable Development**

In the National Strategic Development Plan (2006-2010) has raised priorities to carry out the activities within this period, set for the natural resources protection and preservation. This national strategic development plan has set the goals for the year 2010 to rehabilitate the forest cover up to 60% of the land area throughout the country.

The strategic plan of the Ministry of Environment indicates a clear national political stance aiming at ensuring the sustainable development and the Ministry will join hands with the national/international communities to foster the human health and promote the environmental quality, the natural resources protection and preservation. Along with this, based on the continuous implementation of the Rectangular Strategy, phase 2 of the Royal Government of Cambodia, the Ministry has shown a commitment to implement the policies in supporting the Royal Government of Cambodia for the completion of reforms in various key sectors that will take shape in the near future. Up to this stage and in the coming future, the Ministry has, in a broad sense, created various partnerships in mobilization of budget and carrying out activities to manage the environment issues in Cambodia. The position of the Ministry is to raise and solve the environmental issues in general together with the national efforts to achieve the sustainable development, ensuring the public health safety, including the reduction and abolition of the environmental pollution and the natural resources protection and preservation. At the same time,

the Ministry shall continue formulating the procedure that supports and coordinates the NGOs donor agencies and concerned stakeholders to the common interest through the networking where the office is in the Ministry of Environment.

The Ministry of Environment together with other institutions and stakeholders shall look for solutions on the requirements of human health protection, environmental protection, institutional and human resource capacity building as well as information dissemination and promotion of public awareness in Cambodia since the country has suffered from the devastation in both human resource and natural resources for many years of civil war. Meanwhile, the Ministry is willing to contribute to an effective management of environment and continues to implement and use all available means to achieve the set goals in this strategic plan.

The process of the implementation of this strategic plan will provide an opportunity to the national and international organizations and all stakeholders to directly contribute their comments, support and implementation. In addition, a number of activities can be taken into a combined implementation of the program and initiatives of the stakeholders which are going on.

### 3-3 Shortcomings:

- Ineffective use of natural resources due to the poverty of the people living in the natural protected areas is still high.
- Still weakness is due to the lack of technical support and budget.
- Limited capacity of technical officials together with the lack of budget caused a number of natural protected areas not having the detailed natural protection plan.
- Lack of a number of legal regulations.
- Lack of capacity for environmental impact assessment and means for encouraging the legal enforcement.
- Lack of understanding and responsibility in management and utilization of natural resources and protection of environment.
- Lack of broad control over environmental contamination.
- Lack of data record and national data management system for controlling the nationwide environmental sector.
- Lack of information exchange mechanism and environmental technology.
- Lack of laboratory capacity.

### 3-4 Major Strategies for Improvement of Environmental Management

<i><b>Implementing Strategies:</b></i>	<i><b>Activities to be carried out:</b></i>
1- Improve the institutional development mechanism	<ul style="list-style-type: none"> <li>• Organize the environmental related network among key concerned institutions to promote the effectiveness of environmental management.</li> <li>• Make an alliance with NGOs, private sectors, public interest groups, communities and donors.</li> <li>• Designate the competent agent to act as a representative for coordination on environmental management with all donors.</li> <li>• Create mechanism and procedure for designing and submitting the project proposal to the Royal Government and donors for the implementation of environmental protection and additional necessary activities to ensure</li> </ul>



<b>Implementing Strategies:</b>	<b>Activities to be carried out:</b>
	<p>the effectiveness of institutional development.</p> <ul style="list-style-type: none"> <li>• Organize and implement the enabling guidelines for the institutional development.</li> <li>• Regular report on situation of environmental management in the country as well as the observation, monitoring of implementation and updating of various action plans once every year.</li> </ul>
2- Improve the mechanism contributing to the legal enforcement which ensures the sustainable development	<ul style="list-style-type: none"> <li>• Re-examine the weaknesses and gaps of current environmental laws and consider possibilities in making amendment or formulating additional laws and/or new legal regulations.</li> <li>• Disseminate laws and official regulations to be reached to the local level.</li> <li>• Provide training on environmental law to the officials in charge of law enforcement, especially judicial police dealing with environmental issues.</li> <li>• Promote the public participation in implementation of environmental laws.</li> </ul>
3- Improve the mechanism for building up and development of human resource	<ul style="list-style-type: none"> <li>• Organize an incentive for officials in carrying out activities such as planning, implementing laws, monitoring, working activities consolidation such as conference, etc.</li> <li>• Identify and assess the needs for capacity building of the government officials, private sectors, NGOs and stakeholders.</li> <li>• Assess the external resources necessary for the response to the need of capacity building of Cambodia concerning the participation with various activities of the donors and of the Ministry.</li> <li>• Assess the commitment, especially from the NGOs to strengthen the capacity and give authority to the departments concerned with the support to these capacities building.</li> <li>• Organize and carry out the training of specialized skill and specialized management of environment in various sectors.</li> <li>• Organize the management mechanism and give regular information on environmental issues to the technical officials of the concerned institutions, especially the policies decision makers and various concerned NGOs.</li> </ul>
4- Improve the finance mechanism	<ul style="list-style-type: none"> <li>• Initiate and organize the meeting with participation from donor agencies and private sectors in order to examine the strategy of financial mobilization and partnership building with private sectors for the environmental management.</li> <li>• Strengthen the efforts in order to provide information to donor agencies and donor countries on project proposed by the Ministry of Environment.</li> <li>• Build up the relationship and exchange of financial information with NGOs and other groups related to the</li> </ul>

<b>Implementing Strategies:</b>	<b>Activities to be carried out:</b>
	<p>environmental cooperation as well as the promotion of the implementation of plan, together with NGOs and private sectors.</p> <ul style="list-style-type: none"> <li>Promote the allocations of State budget for the implementation of the strategic plan of the Ministry of Environment.</li> </ul>

### 3-5 Detailed Action Plan (2009-2013)

#### 3-5-1 General Department of Technique

##### 3-5-1-1 Department of Planning and Legal Affairs

##### ❖ Component 1: Human Resource Development

##### **Aims/Purposes:**

- ❖ Conduct the training course on Environmental Strategic Planning at all 24 capital/provincial departments of environment.
- ❖ Training on law enforcement for the environmental ranger officials of all 23 natural protected areas of Cambodia.

##### **Outcomes:**

- The Ministry will have the circular Implementation of duties of Judicial Police in environmental protection and natural resources preservation.
- The capacity of the environmental ranger officials has been strengthened both knowledge and legal enforcement for the better management of environmental sector.

##### **Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the membership of training working group and the Planning facilitation team.	✓	✓				Department of Planning and Legal Affairs	12 000
2	Organize the document for training on Strategic Planning.		✓	✓			Department of Planning and Legal Affairs	50 000
3	Contact to the agencies of the capital/provincial departments for seeking collaboration on training of Strategic Planning.		✓	✓	✓	✓	Department of Planning and Legal Affairs	5 000
4	Organize the members of training working group and the facilitation team of environmental regulations of the environmental ranger officials.	✓	✓				Department of Planning and Legal Affairs	5 000
5	Organize the document for training on Law Enforcement for environmental ranger officials.	✓	✓				Department of Planning and Legal Affairs	1 500
6	Contact to the concerned stakeholders seeking for collaboration	✓	✓				Department of Planning and	500



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	on Training for the environmental ranger officials.						Legal Affairs	
7	Conduct the training on Implementation of procedure and how to fill the set of common sample letters for suppression of environmental offences for the environmental ranger officials.		✓	✓			Department of Planning and Legal Affairs	5 500
8	Evaluate the implementation of duties of the Judicial Police and the environmental ranger officials relating to the Implementation of procedure and how to fill the set of common sample letters for suppression of environmental offences.			✓	✓	✓	Department of Planning and Legal Affairs	3 000

❖ **Component 2: Development of Environmental Plan at a national and capital/provincial level**

**Aims/Purposes:**

- ❖ Enhance the Strategic Plan of all agencies subordinating to the Ministry of Environment for better strengthening of management of all environmental sectors.
- ❖ Enhance the environmental planning and policies making in all agencies subordinating to the Ministry of Environment for the best strengthening of management of all environmental sectors.

**Outcomes:**

- The capacity of the officials at the capital/provincial departments of environment in preparation of environmental strategic plan has been strengthened.
- The capital/provincial environmental plan shall be ready by the end of 2009 which is the foundation for decentralized environmental planning and integration of environmental plan into 5 years social economic development plan of the Royal Government.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the Strategic Plan of the Ministry of Environment (2009-2013) , with the participation from the subordinating bodies under the Ministry.	✓					Department of Planning and Legal Affairs	12 000
2	Formulate the guideline on Strategic Planning and disseminate it to all specialized departments and capital/provincial departments of	✓					Department of Planning and Legal Affairs	5 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	environment.							
3	Monitor and evaluate the capital/provincial environmental situation.	✓	✓				Department of Planning and Legal Affairs	20 000
4	Evaluate and prioritize capital/provincial environmental issues.	✓	✓				Department of Planning and Legal Affairs	5 000
5	Organize the environmental strategic plan in all capital /provincial departments of environment.	✓	✓				Department of Planning and Legal Affairs	24 000
6	Identify the priority projects and help to organize a set of project proposal on the priority projects identified for all capital / provincial Departments of Environment. Raise a set of Project Proposals		✓				Department of Planning and Legal Affairs	4 000
7	Disseminate the strategic plan of the capital/provincial Departments of Environment to all concerned stakeholders and donor organizations through the provincial level seminar.		✓				Department of Planning and Legal Affairs	12 000
10	Promote the strategic planning in the capital/provincial Departments of Environment.			✓	✓	✓	Department of Planning and Legal Affairs	5 000
11	Offer the ideas to every work relating to the strategic plan to the subordinating bodies of the Ministry.	✓	✓	✓	✓	✓	Department of Planning and Legal Affairs	0
12	Formulate the guideline on Monitoring and evaluation of the implementation of strategic plan and dissemination to all specialized departments and capital/provincial Departments of Environment.	✓	✓				Department of Planning and Legal Affairs	8 000
13	Monitor and evaluate the implementation of strategic plan and determine the long term strategic plan to ensure the environmental policy making of the Ministry.		✓	✓	✓	✓	Department of Planning and Legal Affairs	16 000
14	Collaborate with the subordinating bodies of the Ministry in preparation of various plans which are necessary to the environmental protection and	✓	✓	✓	✓	✓	Department of Planning and Legal Affairs	24 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	natural resources conservation.							
15	Monitor and evaluate the designing and implementing of the public investment project of the Ministry.	✓	✓	✓	✓	✓	Department of Planning and Legal Affairs	1 000

❖ **Component 3: 2<sup>nd</sup> National Environmental Plan Development:**

**Aims/Purposes:**

- ❖ Ensure the Environmental protection and natural resources conservation and maintain the sustainable development.

**Outcomes:**

- The 2nd National Environment Plan will benefit Cambodian people in both economical, social contexts and help raise wellbeing.
- Help to protect the environmental quality and beautiful landscape of eco-system of the country with fresh water, wetland and the coastal area.
- Join hands with stakeholders in making local community policies, the private sector, NGOs, local organizations to ensure the sustainable use of natural resources and environment for the next generations.
- The 2nd National Environmental Plan for the year 2009-2013 will provide as a foundation for the environmental protection and natural resources conservation, the promotion of public health and as a key for preparing an environmental action plan within the region.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Review the existing information, the previous year results which have been implemented and make a detailed plan for updating the National Environmental Plan.	✓	✓				Department of Planning and Legal Affairs	12 000
2	Study the source of aid for updating the national environmental plan and degree of engagement of the concerned institutions.	✓	✓				Department of Planning and Legal Affairs	2 000
3	Increase capacity building of the officials to update the national environment plan.	✓	✓				Department of Planning and Legal Affairs	5 000
4	Collect information from all concerned institutions; identify the problems according to each sector, and the sectoral evaluation.	✓	✓				Department of Planning and Legal Affairs	20 000
5	Select any problems which are	✓	✓				Department of	2 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	necessary for the national prioritization.						Planning and Legal Affairs	
6	Drafting the update of the national environmental plan.	✓	✓				Department of Planning and Legal Affairs	4 000
7	The meeting of the donors or institutions that have the assistance for the concentration of budget and technicalities for putting into the work program.						Department of Planning and Legal Affairs	5 000
8	National seminar/forum to review the updated draft of the national environmental plan.	✓	✓				Department of Planning and Legal Affairs	4 500
9	The decision of the leader on the new national environmental plan and putting into practice.	✓	✓				Department of Planning and Legal Affairs	0
10	Monitor and evaluate the implementation of the 2nd national environmental plan.	✓	✓	✓	✓	✓	Department of Planning and Legal Affairs	10 000

❖ **Component 4: Development of Policies and Legal Framework:**

**Preparation for law drafting:**

**Aims/Purposes:**

- ❖ Updating environmental laws and legal regulations appropriate to the change of reality.
- ❖ Encourage the specialized departments in an appropriate arrangement and effective implementation of environmental laws and regulations, international conventions, agreements and international protocols which are valid in environmental affairs.
- ❖ Formulate the circuit of Duties Performance of Judicial Police and dissemination.

**Outcomes:**

- The Ministry will have a circuit of duties performance of judicial police in environmental protection and natural resource conservation.
- Capacity of the environmental ranger officials at various natural protected areas shall be strengthened in terms of knowledge and legal enforcement for the better management of environment.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Collect information related to environmental laws.	✓	✓				Department of Planning and Legal Affairs	5 000
2	Draft the law on the receipt and share genetic resources benefit and	✓	✓	✓			Department of Planning and	20 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	traditional knowledge.						Legal Affairs	
3	Prepare the long term work plan on formulation of environmental regulations and dissemination of those regulations.			✓	✓	✓	Department of Planning and Legal Affairs	10 000
4	Amend the law on environmental protection and natural resources management.		✓	✓	✓	✓	Department of Planning and Legal Affairs	20 000
5	Organize the consultative workshop		✓	✓	✓		Department of Planning and Legal Affairs	20 000
6	Formulate the circuit of Duties Performance of judicial police of Ministry Environment.		✓	✓	✓	✓	Department of Planning and Legal Affairs	5 000
7	Organize the dissemination seminar on this Circular flow to judicial police of Ministry of Environment and officials of capital/provincial departments of environment.		✓	✓	✓	✓	Department of Planning and Legal Affairs	20 000
8	Monitor and evaluate the Duties Performance of judicial police of Ministry of Environment.		✓	✓	✓	✓	Department of Planning and Legal Affairs	0

### 3-5-1-2 Department of Environmental Impact Assessment and Review

#### ❖ Component 1: Capacity Building:

##### *Aims/Purposes:*

- ❖ Strengthen the technical capacity for environmental impact assessment of technical officials both at national and capital/provincial level.

##### *Outcomes:*

- The document on Training Curriculum which has already been compiled shall be properly reviewed and revised and suited to the current situation.
- The training toolkit shall be organized.
- The technical officials for environmental impact assessment at the national level will receive the basic training at least once.
- The national technical officers (ToT) shall be employed and thoroughly trained.
- All technical officials at capital/provincial level for environmental impact assessment will receive the basic training delivered at the national level at least once.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Review and revise the training document which has been already compiled in 2008.	✓					Department of Environmental Impact Assessment and Review	9 000
2	Prepare and compile the training kit.		✓				Department of Environmental Impact Assessment and Review	28 000
3	Conduct the training course for the specialized officials at the national level.		✓				Department of Environmental Impact Assessment and Review	20 000
4	Recruit and provide training to the technical officers at the national level.		✓				Department of Environmental Impact Assessment and Review	10 000
5	Conduct the training course for the capital/provincial specialized officials.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	120 000

**❖ Component 2: Policies and Legal Framework:**
**Aims/Purposes:**

- ❖ Organize and revise Policies and Legal Framework related to the environmental impact assessment according to the reality.

**Outcomes:**

- The sub-decree on process of environmental impact assessment shall be reviewed and amended or revised as a base for the law on environmental impact assessment.
- The joint Prakas between Ministry of Environment and Ministry of Economy and Finance on determination of service fees for the review on environmental impact assessment report and monitoring of the project implementation shall be reviewed and amended.
- The Prakas of Ministry of Environment on Delegation of Power in decision making in the name of the Ministry for the investment project to the capital/provincial departments of environment shall be reviewed and revised.
- Guideline for environmental impact assessment for the industrial, agricultural, tourism and infrastructure sector shall be formulated and announced to be officially used.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Review the sub-decree on Process of Environmental Impact Assessment, the joint Prakas on Setting of service fees, and the Prakas on Delegation of Power and to analyze the gaps of these legal frameworks.		✓				Department of Environmental Impact Assessment and Review	50 000
2	Organize the national seminar on the		✓				Department of Environmental	10 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	outcomes dissemination of the review of the above legal framework, and to have the consultation and the various recommendations.						Impact Assessment and Review	
3	Revise the sub-decree on process of environmental impact assessment or prepare the draft law on environmental impact assessment.		✓	✓			Department of Environmental Impact Assessment and Review	50 000
4	Revise the joint Prakas between Ministry of Environment and Ministry of Economy and Finance on defining service fee for reviewing the reports on environmental impact assessment and the follow up of the project implementation.		✓	✓			Department of Environmental Impact Assessment and Review	10 000
5	Revise the Prakas of Ministry of Environment on Delegation of Power in decision making in the name of the ministry for the investment project to the capital/provincial departments of environment.		✓	✓			Department of Environmental Impact Assessment and Review	10 000
6	Organize the workshop at capital/provincial and national level for consultation on the draft of legal framework above.			✓	✓		Department of Environmental Impact Assessment and Review	120 000
7	Revise the above legal framework according to the comments and recommendations collected from all workshops and then submit to the concerned institutions of the Royal Government and the National assembly for the enactment.				✓	✓	Department of Environmental Impact Assessment and Review	30 000
8	Drafting the guideline for environmental impact assessment for the industrial, agricultural, tourism and infrastructure sector.		✓	✓			Department of Environmental Impact Assessment and Review	90 000
9	Organize the national seminar for consultation on the draft of above guideline.			✓	✓		Department of Environmental Impact Assessment and Review	80 000
10	Revise the draft of above guideline according to the comments and				✓	✓	Department of Environmental	30 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	recommendations collected from all workshops and then submit to the ministry for approval.						Impact Assessment and Review	

❖ **Component 3: Review and Comments on Environmental Impact Assessment**

**Aims/Purposes:**

- ❖ Minimum prevention and reduction of negative environmental impact, and improve the maximum positive effect on the environment.

**Outcomes:**

- The reports on inventory project and development activities where the reports on environmental impact assessment are not yet prepared and these shall be compiled.
- Every development project and activity attached with the annexes of the sub-decree on process of environmental impact assessment shall be required to make reports on environmental impact assessment.
- The reports on environmental impact assessment which have been prepared by the project owner and the development activity shall be appropriated to the technical standard and general guideline for environmental impact assessment of the Ministry of Environment.
- Assess the environmental impact of the development projects and activities will have the active participation from the public and all stakeholders.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Make the inventory of every development project and activities, then assess and identify the project and activities which have been prepared as the reports of environmental impact assessment as well as organizing the seminar for the dissemination of the above activities outcomes.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	10 000
2	Invite stakeholders to come and provide direct or indirect guidance to the development projects and activities that owners have in order to assess the environmental impact to prepare the environmental impact assessment reports.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	60 000
3	Promote an active participation from the public and concerned stakeholders in the process of environmental impact assessment by	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and	50 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	requiring setting up terms of reference and specific research methodologies.						Review	
4	Review and comment on the environmental impact assessment reports.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	70 000
5	Review and comment on documents or reports concerning the environmental impact assessment.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	10 000
6	Review and comment on the environmental management plan of the development projects and activities owners of the non annex of sub-decree on process of environmental impact assessment.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	12 000

#### ❖ Component 4: Monitoring

##### *Aims/Purposes:*

- ❖ Strengthen the monitoring on implementation of environmental management plan contained in the environmental impact assessment reports and environmental protection contracts of the owners of development projects and activities.

##### *Outcomes:*

- The owners of development projects and activities shall regularly comply with the environmental management plan and environmental protection contracts.
- The negative impact will be reduced to the minimum level.

##### *Activities:*

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Conduct the monitoring on implementation of environmental management plan of the development projects and activities which have been approved on the environmental impact assessment reports at least once a year.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	50 000
2	Conduct the monitoring on implementation of environmental protection contracts of the projects	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and	50 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	which have not prepared the reports on environmental impact assessment at least once a year.						Review	
3	Prepare and classify the development projects and activities according to the level of compliance with the environmental protection contracts and environmental management plan.		✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	25 000
4	Take legal action for the development projects and activities which are not complied with the environmental management plan and environmental protection contracts.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	25 000
5	Promote and improve the collection activity of environmental contribution fund.	✓	✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	26 000

#### ❖ Component 5: Research

##### **Aims/Purposes:**

- ❖ Promote the research work and evaluate the set of environmental impact assessment.

##### **Outcomes:**

- New research unit/section shall be established and equipped with sufficient research tools.
- The specialized officials on environmental impact assessment at the national level shall receive training on Use of Research Tools for data collection and interpretation.
- The data collection and interpretation shall be carried out in trial for the evaluation of the set
- Of environmental impact assessment which happened within the area of development projects and activates.
- The data and information received from above activities shall be organized and compiled as the baseline data and stored in the specific data system.
- The strategic plan for research work shall be formulated.

##### **Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Formulate the terms and reference for the new unit/section and equip with tools for this unit/section.		✓				Department of Environmental Impact Assessment and	150 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
							Review	
2	Organize the short term training course on use of research tools for data collection and interpretation for specialized officials.		✓	✓			Department of Environmental Impact Assessment and Review	10 000
3	Conduct the data collection and interpretation at the targeted areas and disseminate to the public.		✓	✓	✓	✓	Department of Environmental Impact Assessment and Review	100 000
4	Prepare the draft of strategic plan for research work related to the environmental impact.				✓		Department of Environmental Impact Assessment and Review	10 000
5	Organize the national seminar for the dissemination of the above strategic plan and collect recommendations for revision.				✓		Department of Environmental Impact Assessment and Review	10 000

### 3-5-1-3 Department of Environmental Pollution Control (Dept. C):

#### ❖ Component 1: Management of Water Contamination

##### *Aims/Purposes:*

- ❖ Control and reduction of Water Pollution.

##### *Outcomes:*

- Law on Water Pollution Control shall be adopted and implemented.
- Training course for officials of capital/provincial shall be organized. The knowledge of the officials at capital/provincials shall be developed.
- The quality of public water shall be regularly monitored and controlled.
- Document on liquid waste and pollution sources throughout the country shall be compiled and disseminated.
- The liquid waste from the urban area of capital/provincial shall be treated, according to the legal standard.
- The report on water pollution shall be compiled and disseminated.

##### *Activities:*

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Formulate the law on Water Pollution Control	✓	✓				• Department of Environmental Pollution Control	20 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
2	Train and strengthen the capacity of the specialized officials of the capital/provincial level on issue relating to water pollution.	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> <li>Capital/provincial department of environment.</li> </ul>	5 000
3	Expand and continue to monitor the quality of public water throughout the Kingdom of Cambodia.	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> <li>Capital/provincial department of environment.</li> </ul>	20 000
4	Continue and Expand the monitoring and inspection on source of pollution and analysis of liquid waste at the Ministry lab.	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> <li>Capital/provincial department of environment.</li> <li>Capital/provincial hall and local authorities</li> </ul>	75 000
5	Make an inventory of liquid waste and source of water contamination throughout the country.	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> <li>Capital/provincial department of environment.</li> <li>Capital/provincial hall and local authorities</li> </ul>	150>000
6	Prepare the Technical Guideline on Management of Liquid Waste with environmental sustainability.		✓	✓			<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> <li>Capital/provincial department of environment.</li> <li>Capital/provincial hall and local authorities</li> </ul>	15 000
7	Prepare the Report on Status of Water Pollution throughout the Kingdom of Cambodia.		✓	✓			<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> </ul>	12 000



## ❖ Component 2: Solid Waste Management

### Aims/Purposes:

- ❖ Implement the Solid Waste Management with Safe Environment:

### Outcomes:

- Law on Management of Solid Waste and Hazardous Waste shall be adopted and implemented.
- Training course for officials of capital/provincial shall be organized. The knowledge of the officials at capital/provincial on management of solid waste and hazardous waste shall be developed and the management of these wastes shall ensure the environmental safety.
- The management of solid waste and hazardous waste at capital/provincial shall be improved as well as the techniques-based management and environmental safety.
- The guideline document on Management and implementation of 3R (Recycle, Reduce and Reuse) principles shall be implemented and the activities of implementing the 3R principles at capital/provincial shall be selected as the model for the nationwide implementation.
- Inventory report on solid waste at capital/provincial shall be compiled and disseminated in order to find the solution on the gaps of implementation of the capital/provincial solid waste management and solid waste management system shall be better developed.

### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Formulate the law on Solid Waste Management	✓	✓				<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> </ul>	20 000
2	Organize the Training Workshop on Capacity Building for the specialized officials of the capital/provincial department of environment.	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> <li>Capital/provincial department of environment.</li> </ul>	70 000
3	Monitor and enhance the implementation of management of Solid Waste and Hazardous Waste with an environmental safety.	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> <li>Capital/provincial department of environment.</li> </ul>	30 000
4	Organize the guideline and enhance the implementation of the 3R principles through the demonstration at a number of selected capital/provincial urban areas.	✓	✓				<ul style="list-style-type: none"> <li>Department of Environmental Pollution Control</li> <li>Capital/provincial department of environment.</li> </ul>	25 000
5	Make an inventory of solid waste and hazardous waste throughout the country.	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Department of Environmental</li> </ul>	100 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
							Pollution Control • Capital/provincial department of environment.	

❖ **Component 3: Management of air pollution, noise and vibration disturbance**

**Aims/Purposes:**

- ❖ Control on air pollution, Noise and Vibration disturbance.

**Outcomes:**

- Law on Protection of Environmental Quality (air pollution, noise and vibration disturbance) shall be adopted and implemented.
- The training course for the officials of the capital/provincial department of environment shall be conducted. The knowledge of the officials of the capital/provincial department of environment on management of air pollution and noise disturbance shall be developed.
- Data on public air quality shall be compiled.
- The air pollution shall be monitored and managed.
- Inventory of air pollution shall be compiled and disseminated in order for action to be taken tracing the source of pollution.
- Guideline relating to the management of air pollution and noise disturbance shall be implemented.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Formulate the Law on Protection of Environmental Quality (air pollution, noise and vibration disturbance).	✓	✓				• Department of Environmental Pollution Control	20 000
2	Organize training course on management of air pollution and noise disturbance for the officials of the capital/provincial department of environment.	✓	✓	✓	✓	✓	• Department of Environmental Pollution Control • Capital/provincial department of environment.	50 000
3	Monitor the public air quality	✓	✓	✓	✓	✓	• Department of Environmental Pollution Control • Capital/provincial department of environment.	180 000
4	Monitor the air pollution at various	✓	✓	✓	✓	✓	• Department of	20 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	sources of air pollution.						Environmental Pollution Control • Capital/provincial department of environment.	
5	Make an inventory of the source of air pollution.	✓	✓				• Department of Environmental Pollution Control • Capital/provincial department of environment.	50 000
6	Organize the guideline relating to the management of air pollution and noise disturbance.	✓	✓				• Department of Environmental Pollution Control • Capital/provincial department of environment.	50 000

#### ❖ Component 4: Environmental Lab

##### Aims/Purposes:

- ❖ Strengthen the quality and capacity of Environmental Lab.

##### Outcomes:

- Lab with sufficient capacity for monitoring the environmental quality in Cambodia.
- The officials will have specific skills on use of tools and analysis of parameters.
- Data on water quality shall be compiled and disseminated.

##### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Be equipped with the tools for analysis of air quality.	✓	✓				• Department of Environmental Pollution Control	100 000
2	Continue the research for documents on Current Parameter Analysis Methods.	✓	✓	✓	✓	✓	• Department of Environmental Pollution Control	35 000
3	Expand the monitoring on environmental quality at various	✓	✓	✓	✓	✓	• Department of Environmental	50 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	capital/provinces.						Pollution Control	
4	Train the officials of laboratory on use, repairing and maintenance of tools.	✓	✓				• Department of Environmental Pollution Control	42 000

❖ **Component 5: Capacity building and Public awareness**

**Aims/Purposes:**

- ❖ Strengthen the specialized capacity and promote public awareness.

**Outcomes:**

- Have a document translated in national language concerning the impact on public health and environment caused by chemical substances, the document related to the issue of environmental pollution, measures for pollution reduction, safe management of environment and a documental research on new technical discovery.
- Have a document for the institutional officials as well as the public to do research studies.
- Have built up knowledge and understanding for the institutional officials and the public.
- Improve both the understanding ability of language and technique for the office level officials.
- Issue short articles relating to environmental issues in the bulletin of the Ministry of Environment.
- The training course for the officials of capital/provincial Departments of Environment shall be conducted.
- Increase the control measures on every activity which can create an impact on human and environment.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	<ul style="list-style-type: none"> <li>- Strengthen the capacity on management of chemical substances with environmental safety.</li> <li>- Prepare the brief explanation document on strategic solution for management of chemical substances within an international framework (SAICM).</li> <li>- Prepare a primary document relating to awareness on classification system and general labeling of chemical substances (GHS) and Cambodia's activities in implementing GHS system.</li> <li>- Conduct research on the document related to the technology in cleansing liquid waste.</li> </ul>		✓				• Department of Environmental Pollution Control	25 000
2	- Compile the documents on environmental technology for the			✓			• Department of Environmental	25 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	reduction of environmental pollution. - Research on documents related to the new technological discovery and the translation of national documents related to the use of bio-energy and activities of Cambodia relating to the use of bio-energy. - Translate the documents related to the new technological discovery of producing bio-plastic and its advantages in the environment.						Pollution Control	
3	- Promote the public awareness on environmental issues in general through the dissemination of new articles on environment. - Translate the documents on the 9 items of agricultural chemicals (DDT, Aldrin, Chlordane, Dieldrin, Endrin, Heptachlor, Exachlorobenzene, Mirex and Toxaphene) which are prohibited contained in the 12 pop substances of the Stockholm convention and the impact on public health and environment. - Prepare the short articles or documents for the dissemination relating to the environmental issues (Publication of articles on monthly bulletin of the Ministry of environment). - Prepare documents on environmental contamination caused by waste combustion site and waste dumping site and the impact on human health and environment, and the measures on control of waste combustion site and the waste dumping site with the environmental safety. - Prepare the document translation on Arsenic substances and its impacts on human health and environment. - Translate the documents related to awareness on Acid rain. - Prepare questions-answers documents related to the risks of heavy metal substances (copper...) and the impacts on human health and	✓	✓	✓	✓	✓	• Department of Environmental Pollution Control	60 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	environment.							
4	<ul style="list-style-type: none"> <li>- Issue on training through the studies research on environmental contamination and environmental management technology.</li> <li>- Organize the training for the officials of capital/municipal department of environment on environmental contamination and reduction measures of environmental contamination and the use of environmental management technology through knowledge gained from the research documents.</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Department of Environmental Pollution Control collaborates with Capital/provincial department of environment and local authorities</li> </ul>	35 000

### 3-5-1-4 Department of Natural Resource Assessment and Environmental Data Management:

#### ❖ Component 1: Preparation- Building up an Original Model

#### *Aims/Purposes:*

- ❖ Build the general set of core indicators and original environmental database for supporting the natural resource assessment-environmental action for the sustainable development and national environmental protection.

#### *Outcomes:*

- The set of core environmental indicators and the database plan/design according to the standardization and national harmonization.
- Guideline for natural resources assessment- national environmental action and
- Technical Training document.

#### *Activities:*

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Prepare-create core environmental indicators.	✓	✓				Department D	30 000
2	Prepare – design database plan	✓	✓				Department D	20 000
3	Organize guideline on natural resources assessment-environmental action.	✓	✓				Department D	15 000
4	Prepare-create a set of document and technical training: <ul style="list-style-type: none"> <li>- for specialized officials within the ministry.</li> <li>- for specialized officials of inter-ministries.</li> </ul>		✓	✓	✓		Department D	45 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
5	Organize the meeting –training workshop: - internally within the ministry and - national level	✓	✓	✓	✓		Department D	20 000

❖ **Component 2: Preparation- Creation of natural resources assessment report-national environmental action**

**Aims/Purposes:**

- ❖ Provide information to the leaders to be better aware on environmental situation, the trend of natural resources change and the impact in the national plan on sustainable development.
- ❖ Effectively facilitate the management of national environmental program with high competency and improved public accountability.
- ❖ Support the national, regional and international requirement on environmental information and action assessment on major national priority issues to contribute in the regional and world assessment.

**Outcomes:**

- Support system to the issuance of decision for the leaders of the ministry of environment.
- Assessment document on specific requirement (capacity building and institutional strengthening).
- Specific environmental action indicators.
- Specific database system (management system) for environmental action assessment.
- Analysis document on institutional and capacity building plan on environmental action assessment.
- Natural Resources Assessment Report- National Environmental Action.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Collect, revise, analyze and manage the bio-physical, economic and social data.	✓	✓	✓	✓	✓	Department D	50 000
2	Revise the geographical information system and map of natural protected areas, economic corridor areas- the conservation corridor of bio-diversity, wetland and coastal areas.	✓	✓	✓	✓	✓	Department D	35 000
3	Identify the concerns-the priority environmental issue and identify-revise the indicators for national environmental action assessment.	✓	✓	✓	✓		Department D	30 000
4	Prepare and create the assessment document for specific requirement.	✓	✓				Department D	15 000
5	Create-revise the specific centralized database system for the national environmental action assessment.	✓	✓	✓	✓	✓	Department D	35 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
6	Create the analysis document on institutional and capacity building plan for the national environmental action assessment.	✓	✓				Department D	15 000
7	Create the natural resources assessment report- national environmental action: - The 2010 national communication. - The 2013 national communication.	✓	✓	✓	✓	✓	Department D	25 000 30 000
8	The national meeting / workshop (for the 2010 national communication) - Initial meeting - The first consultative meeting - Final meeting	✓	✓ ✓				Department D	5 000 5 000 6 000
9	The national meeting / workshop (for the 2013 national communication) - Initial meeting at the end of 2011 - The first consultative meeting - Final meeting early of 2013			✓	✓	✓	Department D	5 000 5 000 6 000

❖ **Component 3: Management of Website of the Ministry of Environment and dissemination of environmental information**

**Aims/Purposes:**

- ❖ Use of website as an effective means in providing, disseminating of environmental information.
- ❖ Awareness raising and public contribution in sustainable economic development and sustainable use of natural resources and promotion of environmental quality, and
- ❖ Promotion of electronic service on environmental information to the users.

**Outcomes:**

- The website of the ministry of environment is hosted and offered for public use.
- Laws, Royal decrees, sub-decrees, provisions, documents, published reports, speeches, presentations, data-information concerning situation, issue, trend and impact of environment, policies solutions, environmental programs and information announcement etc. shall be publicly distributed and disseminated through the electronic system.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize architectural design, create and revise the website/homepage.	✓	✓	✓	✓	✓	Department D	25 000
2	Collect, compile and integrate the related documents for dissemination.	✓	✓	✓	✓	✓	Department D	35 000
3	Meeting –training course: - Technical training - The draft of homepage	✓ ✓ ✓	✓	✓	✓	✓	Department D	10 000 2 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	- Internet Launching							2 000
4	Operation and maintenance of homepage.	✓	✓	✓	✓	✓	Department D	35 000

### 3-5-1-5 Department of Environmental Education, Information and Dissemination (Dep. E)

#### ❖ Component 1: Coordination and Cooperation on Environmental Education for the Sustainable Development

##### Important issues:

- ❖ No national strategic plan on Environmental Education for the Sustainable Development
- ❖ No mechanism for coordination on Environmental Education for the Sustainable Development
- ❖ Environmental education service provision is limited.
- ❖ Lack of information on agency and service providing environmental education.
- ❖ Collaboration and cooperation on environmental education with various operational partners are limited.

##### Aims/Purpose 1:

- Coordinate the implementation of environmental education for sustainable development

##### Outcomes:

- Environmental Education Coordination Committee for sustainable development and the secretariat shall be established.
- Coordination and cooperation on Environmental Education for Sustainable Development with departments, provincial departments under the Ministry of Environment and concerned institutions shall be effectively and efficiently implemented.

##### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Create the Environmental Education Coordination Committee for sustainable development <ul style="list-style-type: none"> <li>• Organize the conceptual document</li> <li>• Organize the meeting for creation of the committee and secretariat for coordination of environmental education for sustainable development</li> <li>• Organize the work plan for the committee.</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Department E</li> <li>• Departments, capital/provincial departments under the Ministry of Environment and concerned ministries/departments.</li> </ul>	25 000
2	Coordinate the implementation of Environmental Education for Sustainable Development with the capital/provincial departments of environment and departments under the cabinet of the Ministry.	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Department E</li> <li>• Specialized departments under the Ministry of Environment and</li> </ul>	25 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	<ul style="list-style-type: none"> <li>Organize the conceptual documents</li> <li>Organize the responsible working group</li> <li>Organize the annual meetings with specialized departments and the capital/provincial departments of environment to monitor the progress of environmental education.</li> <li>Prepare the report of the work outcomes.</li> </ul>						capital/provincial departments of environment.	
3	Coordinate the implementation of Environmental Education for Sustainable Development with cooperating partners or concerned stakeholders <ul style="list-style-type: none"> <li>Organize the conceptual document</li> <li>Organize the responsible working group</li> <li>Organize the annual meeting with cooperating partners to monitor the progress of environmental education.</li> <li>Prepare the report of the work outcomes.</li> </ul>	✓	✓	✓	✓	✓	• Department E	25 000

#### **Aims/Purpose 2:**

- ❖ Organize and implement the national strategic plan on Environmental Education for the Sustainable Development.

#### **Outcomes:**

- National strategic plan on Environmental Education for the Sustainable Development shall be established.
- National strategic plan on Environmental Education for the Sustainable Development shall be effectively and efficiently implemented.

#### **Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the Environmental Educational Strategic Plan for sustainable development. <ul style="list-style-type: none"> <li>Research and collect data on Environmental Education Service for sustainable development.</li> <li>Organize consultative workshop with specialized institutions to</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Department E</li> <li>Departments, capital/provincial departments under the Ministry of Environment and concerned ministries/departm</li> </ul>	10 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	collect ideas for planning. • Prepare the Environmental Educational Strategic Plan for sustainable development. • Organize consultative workshop for approving the strategic plan.						ents.	
2	Implement the Environmental Educational Strategic Plan for sustainable development. • Research and monitor the existing Environmental Education Services. • Organize the operational plan for implementation of strategic plan. • Organize the meeting with specialized departments and institutions for coordination of the implementation of strategic plan. • Prepare the progress reports.		✓	✓	✓	✓	• Department E • Departments, capital/provincial departments under the Ministry of Environment and concerned ministries/departments.	40 000

### **Aims/Purpose 3:**

- ❖ Organize the network for exchange of experiences and information on Environmental Education for Sustainable Development.

### **Outcomes:**

- Network with the state institutions, academia and civil society shall be established for the exchange of experiences and information on Environmental Education for the Sustainable Development.

### **Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the network with stakeholders • Organize the conceptual document (meeting) • Organize the meeting for selection and determination of statute for networking • Organize the regular meetings for exchange of experiences, information sharing and environmental education service. • Cooperate and implement environmental educational strategic plan for sustainable development.	✓	✓	✓	✓	✓	• Department E • Officials from departments, capital/provincial departments under the Ministry of Environment and concerned ministries/departments.	20 000

**Aims/Purpose 4:**

- ❖ Organize the exhibition/fair for dissemination of the environmental work progress.

**Outcomes:**

- Congress fair of the Ministry of Environment shall be organized on yearly basis.
- Fair for the Royal sloughing ceremony shall be organized on yearly basis.
- There will be many onlookers interested and tried to understand the environmental issue during the visit.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the exhibition/fair of the Ministry of Environment (for annual congress) <ul style="list-style-type: none"> <li>• Organize the conceptual documents</li> <li>• Hold the meeting for designating the organizing committee</li> <li>• Formulate the administrative letters</li> <li>• Collect photograph from specialized departments and capital/provincial departments of environment.</li> <li>• Decorate the exhibition/fair site and display books/journals, calendar, bulletins..)</li> <li>• Documentation production.</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Department E</li> <li>• Specialized departments under the Ministry of Environment</li> </ul>	15 000
2	Organize the exhibition/fair for the Royal Sloughing ceremony (annually) <ul style="list-style-type: none"> <li>• Organize the conceptual document</li> <li>• Hold the meeting for designating the organizing committee</li> <li>• Formulate the administrative letters</li> <li>• Collect photographs from specialized departments and capital/provincial departments of environment.</li> <li>• Organize the exhibition/fair sites, and displaying pictures in the exhibition stands at the Meru lawn.</li> <li>• Install the media system</li> <li>• Documentation production.</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Department E</li> <li>• Specialized departments under the Ministry of Environment</li> </ul>	13 000

❖ **Component 2: Human Resource Development for Environmental Education for the Sustainable Development**

**Important issues:**

- ❖ Knowledge of a number of officials on Method of Environmental Education is limited.
- ❖ Knowledge of foreign language (particularly English) is limited which led to the difficulty in research works.
- ❖ Lack of materials/tools for research work, especially computer, internet and email.



**Aims/Purpose:**

- ❖ Organize the training course on environmental issue and education for sustainable development.

**Outcomes:**

- Environmental trainers will have more comprehensive understanding than before relating to method or technique of environmental education as well as adopt all those method and techniques to practically apply.
- Environmental officials at capital/provincial departments will have environmental knowledge to efficiently implement the environment work.
- Teacher at primary and secondary level will have an environmental knowledge
- Environmental education officials will understand the foundation of English language (able to read, write and listen on daily communication).
- Environmental education officials will know how to use computer, especially self researching and exploration through the internet.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the training course on environmental skills <ul style="list-style-type: none"> <li>• Organize the conceptual documents</li> <li>• Contact with specialized departments in order to invite the trainers</li> <li>• Organize the training venue</li> <li>• Produce training documents and prepare teaching materials</li> <li>• Conduct the training</li> <li>• Prepare the reports</li> </ul>	✓	✓	✓	✓	✓	• Department E	80 000
2	Organize the training course for the environmental trainers <ul style="list-style-type: none"> <li>• Organize the conceptual document</li> <li>• Contact with specialized departments and capital/provincial departments of environment in order to invite the environmental trainers to join the training course.</li> <li>• Produce training documents and prepare teaching materials</li> <li>• Conduct the training</li> <li>• Prepare the reports</li> </ul>	✓	✓	✓	✓	✓	• Department E	40 000
3	Organize the training course for primary and secondary teachers <ul style="list-style-type: none"> <li>• Organize the conceptual document</li> <li>• Contact with ministry of education youth and sports in order to invite the teachers to join the training</li> </ul>	✓	✓	✓	✓	✓	• Department E	120 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	course on environment. • Produce training documents and teaching materials • Conduct the training • Prepare the reports							
4	Provide the training course on English language to officials of department of environmental education and communication • Organize the conceptual document • Contact with English teachers. • Conduct the English teaching. • Prepare the training report	✓	✓	✓	✓	✓	• Department E	20 000
5	Provide the training course on Communication and Internet research to officials of Department of Environmental Education, Information and Dissemination Organize the conceptual document • Make a contact for hiring IT teachers. • Conduct the IT teaching. • Prepare the training report	✓	✓	✓	✓	✓	• Department E	20 000

❖ **Component 3: Environmental Awareness Promotion and Information Exchange Program**

**Important issues:**

- ❖ Provision of Environmental Information and Education service is limited.
- ❖ Collaboration and cooperation on environmental education with various operating partners are limited.
- ❖ Participation from local and external community (students, general public, civil servants, monks, NGOs, private sectors as well as other donors) relating to the environmental promotion is still limited. This led to the understanding on environmental issue among the public is incomprehensive.

**Aims/Purpose 1:**

- ❖ Collect environmental information and activities of ministry leadership for disseminating through the media system.

**Outcomes:**

- Information on Environment from all milieus (national and international) shall be compiled.
- Information on activities of leadership of ministry of environment for dissemination through the media system shall be compiled.
- The statement of the Royal Government which relates to the environment shall be compiled.
- The compiled information shall be publicly disseminated through the media network (T.V and Newspaper) and also through the environmental magazine.



**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Collect information and produce information on environmental activities for dissemination through television • Collect information and write the content for dissemination. • Design the Video spot, pictures work and document production and dissemination. • Contact with T.V station for dissemination of environmental information.	✓	✓	✓	✓	✓	• Department E	27 000
2	Collect information and produce information on environmental activities for radio broadcasting • Collect information and write the content for broadcasting. • Contact with T.V station for broadcasting of environmental information.	✓	✓	✓	✓	✓	• Environmental Education, and Information Dissemination	14 000
3	Collect information and produce information on environmental activities for dissemination through newspaper • Collect information and organize environmental article for publishing through newspaper (cassette). • Write the content for publishing article. • Develop pictures for publishing. • Contact with media for dissemination of environmental information.	✓	✓	✓	✓	✓	• Environmental Education, and Information Dissemination	9 000

**Aims/Purpose 2:**

- ❖ Organize the environmental campaign for awareness raising and public participation.

**Outcomes:**

- The National and World Environment Day, the 5th of June shall be initiated every year in the capital/provincial.
- The Earth Sanitation Day, September shall be initiated every year in the capital/provincial.
- The National Environmental Sanitation Day, November shall be initiated every year in the capital/provincial.
- Civil servants, armed forces, GOs and NGOs, the monks, students and people have joined in every environmental campaign.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the National and World Environment Day, the 5 <sup>th</sup> of June <ul style="list-style-type: none"> <li>• Organize the conceptual document</li> <li>• Hold the meeting of organizing committee.</li> <li>• Formulate the administrative letters.</li> <li>• Collaborate with capital/provincial departments of environment and local authorities.</li> <li>• Prepare the speech for leadership.</li> <li>• Organize the venue and materials for the event.</li> <li>• Conduct the event.</li> <li>• Organize the evaluation meeting and improvement.</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Environmental Education, and Information Dissemination</li> <li>• Capital/provincial departments of environment</li> <li>• Local authorities.</li> </ul>	39 000
2	Organize the Earth Sanitation Day, September <ul style="list-style-type: none"> <li>• Organize the conceptual document</li> <li>• Hold the meeting of organizing committee.</li> <li>• Formulate the administrative letters.</li> <li>• Collaborate with capital/provincial departments of environment and local authorities.</li> <li>• Prepare the speech for leadership.</li> <li>• Organize the venue and materials for the event.</li> <li>• Conduct the event.</li> <li>• Organize the evaluation meeting and improvement.</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Environmental Education, and Information Dissemination</li> <li>• Capital/provincial departments of environment</li> <li>• Local authorities.</li> </ul>	39 000
3	The National Environmental Sanitation Day, the 23 <sup>rd</sup> of November <ul style="list-style-type: none"> <li>• Organize the conceptual document</li> <li>• Hold the meeting of organizing committee.</li> <li>• Formulate the administrative letters.</li> <li>• Collaborate with capital/provincial departments of environment and local authorities.</li> <li>• Prepare the speech for leadership.</li> <li>• Organize the venue and materials for the event.</li> <li>• Conduct the event.</li> <li>• Organize the evaluation meeting and improvement.</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Environmental Education, and Information Dissemination</li> <li>• Capital/provincial departments of environment</li> <li>• Local authorities.</li> </ul>	39 000



**Aims/Purpose 3:**

- ❖ Produce and publish the environmental magazine.

**Outcomes:**

- The environmental magazine will be produced with quality and recognized by all institutions and environmental specializations.
- The environmental magazine will be published and distributed the concerned targeted groups.
- The concerned targeted groups that received the magazine will have better knowledge on environment.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Produce and publish the environmental magazine on quarterly basis <ul style="list-style-type: none"> <li>• Write article for producing magazine</li> <li>• Contact with specialized departments and capital/provincial departments of environment to request for the articles for publishing in the environmental magazine.</li> <li>• Compile and design the magazine.</li> <li>• Publish and distribute the magazine.</li> <li>• Assess the readers (understanding on environment and innovative ideas)</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Environmental Education, and Information Dissemination</li> <li>• Department of finance</li> </ul>	60 000

**Aims/Purpose 4:**

- ❖ Organize the environment awareness program for dissemination through the media system.

**Outcomes:**

- The students in various educational establishments will be participated and discussed on environmental issues.
- The students who have directly participated and have visited the residence will understand the environmental issue better than before.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the “youth forum for environment debate” on quarterly basis <ul style="list-style-type: none"> <li>• Organize the conceptual document</li> <li>• Hold the meeting of organizing committee.</li> <li>• Organize the debate on environmental issue</li> <li>• Organize the content of</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Environmental Education, and Information Dissemination</li> <li>• Student speakers in the debate and supporting students from various higher educational establishments</li> </ul>	111 500

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	environmental debate • Conduct the debate and televise the debate through the national T.V • Activities report including the evaluation of the organization and contents of the forum.						throughout the country. • Officials of the Cambodian National T.V • Group of comedians	

**Aims/Purpose 5:**

- ❖ Manage the environmental document and library.

**Outcomes:**

- The environmental related documents will be sufficiently for the library, collected from concerned ministries and institutions.
- The computers installed with documents searching will be equipped in the library.
- The people, especially students and civil servants will come for their research in the library.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Environmental document and library management • Collection of documents from various concerned institutions and partner organizations. • Contact with specialized departments to request for documents • Purchase various documents • Install computers with documents search system • Make a monthly and annually inventory.	✓	✓	✓	✓	✓	• Department E	11 500

**Aims/Purpose 6:**

- ❖ Create and update the website on Environmental Education.

**Outcomes:**

- Design the website on Environmental Education for integrating into the website of the ministry.
- The documents relating to environmental education will host on the homepage of the environmental education.
- The people, students and civil servants will receive information on activities of environmental education.



**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Design and update the website on Environmental Education <ul style="list-style-type: none"> <li>• Collect documents on environmental education activities from capital/provincial, concerned institutions and civil society.</li> <li>• Contact with specialized departments to request for documents on environmental education.</li> <li>• Regular update the website.</li> </ul>	✓	✓	✓	✓	✓	• Department E	20 000

**❖ Component 4: Resource and Development of Environmental Document.**
**Important issues:**

- ❖ Teaching materials for education and environmental dissemination are not sufficient.
- ❖ No any specific agent or working group to liaise with state organs, NGOs and IOs for cooperation in environmental research and education for the sustainable development.

**Aims/Purpose 1:**

- ❖ Produce audio visual document (Short video clips) on environmental management.

**Outcomes:**

- Audio visual type of Environmental Education document shall be produced for environmental education and shall be disseminated through the media system.
- Cambodian people, especially those who are living in the targeted areas will understand on advantages of forestry conservation, protected area, Tonle Sap biosphere reservoir, coastal areas and waste management.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Produce video documentary on Mangrove Conservation <ul style="list-style-type: none"> <li>• write article</li> <li>• Take a photo of mangrove, fishing, crab...</li> <li>• Interview with the environmental officials, people, communities and fishermen.</li> <li>• Picture cutting and pasting and sound accompanying for article reading.</li> <li>• Produce VCD or DVD</li> <li>• Dissemination</li> <li>• Evaluation</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Environmental officials</li> <li>• Local authorities</li> <li>• Local community</li> <li>• Fishermen</li> </ul>	19 500
2	Produce video documentary on conservation of Tonle Sap biosphere	✓	✓	✓	✓	✓	• Environmental officials	19 500

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	reservoir • write article • Take a photo of Prek Torl, the patrol of park ranger, activities of fishermen. • Picture cutting and pasting and sound accompanying for article reading. • Produce VCD or DVD • Dissemination • Evaluation						• Local authorities • Fishermen • Community people	
3	Produce video documentary on environmental waste management at coastal area • write article • Take a photo of mangrove forest and coastal area landscape. • Coastal area entertainment, fishing and crab catching. • Interview with the local authorities, people, communities and fishermen and tourist. • Picture cutting and pasting and sound accompanying for article reading. • Produce VCD or DVD • Dissemination • Evaluation	✓	✓	✓	✓	✓	• Local authorities • Environmental officials • Community people • Fishermen • tourist	19 500
4	Produce video documentary on Lumphat wildlife conservation • write article • Take a photo of wildlife, patrol activity/park ranger. • Interview with the park manager, park ranger, local authorities, people, communities and hauners. • Picture cutting and pasting and sound accompanying for article reading. • Produce VCD or DVD • Dissemination • Evaluation	✓	✓	✓	✓	✓	• Ministry of Environment • Local authorities • Environmental officials • Community people	19 500

#### **Aims/Purpose 2:**

- ❖ Research on better environmental operation for compilation of documents for the purpose of research studies.

#### **Outcomes:**

- Document on better environmental operation shall be compiled, published and distributed.



- Document on better environmental operation which has been published shall be rested in the library for students to use and research.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Research on better environmental operation to be compiled as a document for studies and research. • Organize the conceptual documents • Conduct research, collect information and write as studies document. • Publish and disseminate	✓	✓	✓	✓	✓	• Department E	80 000

❖ **Component 5: Planning, Monitoring and Evaluation of Environmental Education.**

**Important issues:**

- ❖ Lack of database on environmental education service in Cambodia.
- ❖ Lack of long term and short term environmental education strategy and plan.
- ❖ No monitoring and evaluation mechanism on environmental education.

**Aims/Purpose 1:**

- ❖ Create database on environmental education and planning.

**Outcomes:**

- Database on environmental education activities shall be organized for public use.
- Effectiveness of environmental education which carried out by cooperating partners shall be assessed and
- Annual operational plan for the department of Department E shall be organized and implemented.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Research and organize database on environmental education activities and document. • Organize the conceptual documents • Conduct research, collect information, analyze and compile as a report. • Organize the consultative workshop and exchange of information on environmental education. • Organize the database and documents for dissemination. • Update the database on environmental education.	✓	✓	✓	✓	✓	• Department E	60 000
2	Monitoring and evaluation of	✓	✓	✓	✓	✓	• Department E	80 000

- Gain the support and assistance from development partners for the sustainable environmental and natural resources management.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Human Resource training in foreign languages and protocol, bilateral and multilateral negotiation.	✓	✓	✓	✓	✓	• Department of International Cooperation	85 000
2	Strengthen cooperation in all sectors with the governmental specialized departments, ministries and agencies.	✓	✓	✓	✓	✓	• Department of International Cooperation	18 000
3	Strengthen the bilateral and multilateral cooperation and development partners in environmental sector.	✓	✓	✓	✓	✓	• Department of International Cooperation	22 000
4	Strengthen cooperation in environmental sector with ASEAN countries and the world community.	✓	✓	✓	✓	✓	• Department of International Cooperation	20 000
5	Mobilize assistance from development partners of the countries within the region and international community for Natural Resource and Environmental Management, and for the human resource development within the Ministry's framework.	✓	✓	✓	✓	✓	• Department of International Cooperation	15 000
6	Coordinate the protocol affair in organizing workshops, meetings of ASEAN on environmental issue and the 20th international meeting.	✓	✓	✓	✓	✓	• Department of International Cooperation	59 000
7	Understand and promote an implementation of treaties, agreements, MOUs which have been signed by the ministry.	✓	✓	✓	✓	✓	• Department of International Cooperation	20 000

### 3-5-2 General Department of Administration, Nature Conservation and Protection (General Department PA)

#### 3-5-2-1 Department of Administration, Planning, Accounting and Finance (Dept. Admin and Finance)

##### ❖ Component 1: Personnel and Administration

**Aims/Purpose:**

- ❖ Strengthen and Coordinate the administration General Department of Administration, Nature Conservation and Protection (General Department PA)

**Outcomes:**

- The administration flow has been strengthened and effective.
- The effectiveness of personnel management within the general department.



**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Guide the officials in charge of documentation to know how to properly keep the administration documents.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000
2	Prepare the personnel management related documents.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000
3	Prepare and consolidate the monthly, quarterly and yearly activities report of the General Department of Administration, Nature Conservation and Protection.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000
4	Prepare the materials inventory in the general department.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	15 000
5	Coordinate and liaise with various departments under the general department, ministries and institutions.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000
6	Formulate, review and revise various letters/instruments.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000
7	Propose the plan for equipments/materials for the subordinating departments.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	20 000
8	Carry out the guideline of the state secretariat of public function and the administration reform council relating to personnel affairs.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	8 000
9	Prepare document and propose the request for the increment of salary scale for the civil servants of the General Department of Administration, Nature Conservation and Protection.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	8 000
10	Coordinate the collection of data and data storage for a research purpose.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	15 000

**❖ Component 2: Budget preparation and management**
**Aims/Purpose:**

- ❖ Strengthen the revenues and expenditure management within the General Department of Administration, Nature Conservation and Protection in an effective manner.

**Outcomes:**

- have a specific mechanism for the revenues and expenditure management

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Formulate the sub-decree on natural protected areas foundation	✓	✓				• Dept. Admin & Finance	20 000
2	Prepare budget for natural protected areas management.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000
3	Provide related information on preparation of revenue and expenditure record and preparation of revenue and expenditure of the General Department of Administration, Nature Conservation and Protection.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	8 000
4	Monitor and view the revenue and expenditure flow as well as the equipments/materials of the General Department of Administration, Nature Conservation and Protection.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	8 000
5	Propose the annual budget plan of the General Department of Administration, Nature Conservation and Protection.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000
6	Collaborate with the department of account and finance of the ministry in preparation and monitoring of the budget flow of the General Department of Administration, Nature Conservation and Protection.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	7 000
7	Attend the training courses and workshops relating to the budget management.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	20 000
8	Revise the account and finance report of the General Department of Administration, Nature Conservation and Protection complying with the account report and principle of the ministry.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000

❖ **Component 3: Human Resource building and development****Aims/Purpose:**

- ❖ Strengthen the capacity of the specialized officials for improving the work effectiveness of the officials in various departments under the General Department of Administration, Nature Conservation and Protection in an effective manner.

**Outcomes:**

- The specialized officials of a number of departments have attended the specialized training course and have the ability to lead in the strategic planning for the natural protected areas.



- Have an understanding on Law on Natural Protected areas and they are able to lead in implementing the law on natural protected areas.
- Be able to do research, observation, monitoring and evaluation of the implementation of nature conservation and protection plan.
- Understand accounting and finance management approach.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize the short-long term training to officials according to the function, role and responsibility.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	20 000
2	Encourage the officials in the General Department of Administration, Nature Conservation and Protection to continue their studies to improve the level of expertise.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	15 000
3	Provide incentives to the officials who have good achievement by requesting for honorary medals and awards for them.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	10 000
4	Make a studies tour within the country and abroad to explore the understanding and exchange of experiences and to improve the knowledge in natural protected areas management.	✓	✓	✓	✓	✓	• Dept. Admin & Finance	15 000

**3-5-2-1 Department of National Park and Wildlife Sanctuary (Dept. NPWS)**

❖ **Component 1: Administration work**

**Aims/Purpose:**

- ❖ To strengthen the administration at the national and sub-national level.

**Outcomes:**

- The administration will be strengthened.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Make an inventory of materials in the natural protected areas and in the department of national park and wildlife century.	✓	✓	✓	✓	✓	• Dept. NPWS	5 000
2	Prepare the personnel management related document and recruitment of the park rangers.	✓	✓	✓	✓	✓	• Dept. NPWS - Dept. Admin & Finance	20 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
3	Make an inventory of exhibits seized in the natural protected areas.	✓	✓	✓	✓	✓	• Dept. NPWS - Dept. Admin & Finance	5 000
4	Prepare the annual revenue and expenditure proposal for the ministry.	✓	✓	✓	✓	✓	• Dept. NPWS	1 000
5	Prepare and consolidate the report on Activities of Natural Protected areas management on monthly, quarterly, nine months and on annual basis to submit to the general department of administration, nature conservation and protection by collaborating with all offices.	✓	✓	✓	✓	✓	• Dept. NPWS	5 000

❖ **Component 2: Formulation of legal instruments related to the Law on Natural Protected areas.**

**Aims/Purpose:**

- ❖ To strengthen the Law on Natural Protected Areas and Management.

**Outcomes:**

- At least 7 sub-decrees and 6 Prakas shall be drafted.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Sub-decree on Determination of the governing areas.	✓	✓	✓	✓	✓	• Dept. NPWS	70 000
2	Sub-decree on Determination of the Natural Protected Areas which recognized by the treaties, conventions, protocols and agreements at regional and international level.	✓					• Dept. NPWS	10 000
3	Sub-decree on Provision of cultivating land to the local communities and ethnic minorities.	✓		✓		✓	• Dept. NPWS - នគរភិក្ខុ	75 000
4	Sub-decree on Determination of Kulein National Botanic Park.	✓	✓				• Dept. NPWS	25 000
5	Sub-decree on Determination of the Coastal National Park.					✓	• Dept. NPWS	50 000
6	Sub-decree on Arrangement and Adjustment of the natural protected areas.	✓	✓				• Dept. NPWS	20 000
7	Sub-decree on Establishment of the capital/provincial natural protected					✓	• Dept. NPWS-	20 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	areas.						Dept Planning	
8	Prakas on Principle of Division of governing areas within the natural protected areas.	✓	✓				• Dept. NPWS - និងអភិ	50 000
9	Prakas on Guideline on Action Planning for each natural protected area.	✓	✓				• Dept. NPWS	50 000
10	Prakas on Guideline on Right to traditional use of Natural Resources according to the need of the local communities and indigenous people in the sustainable conservation areas.	✓	✓	✓			• Dept. NPWS - និងអភិ	50 000
11	Prakas on Formalities and discretion of provisional fine.		✓				• Dept. NPWS - Dept Planning	25 000
12	Prakas on cutting down, grafting, tying, tightening, digging out, collection, destruction, encroachment and stocking of vulnerable plants or rare plants and extinct plants.			✓			• Dept. NPWS	25 000
13	Prakas on Catching with trap, Stationary Trap, Moving Trap, or haunting which causes injury, contamination, termination, export, collection of eggs and wildlife offspring of all species which are vulnerable, rare and extinct.				✓		• Dept. NPWS	25 000

❖ **Component 3: Strategic Planning and Action Planning in each Natural Protected Area and Effectiveness Assessment of the Natural Protected Area Management.**

**Aims/Purpose:**

- ❖ To strengthen the Natural Protected Area Management through the creation of a clear management mechanism.

**Outcomes:**

- The Natural Protected Area Management Plan of at least 6 sites shall be established.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Formulate the 5 years strategic Plan	✓					• Dept. NPWS	50 000
2	Prepare the Phnom Prich wildlife Sanctuary management plan.	✓	✓				• Dept. NPWS - Phnom Prich wildlife Sanctuary	50 000
3	Prepare the Botum Sakor National Park Management Plan.		✓	✓			• Dept. NPWS - Botum Sakor National Park	50 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
4	Prepare the Beung Popeir Wildlife Sanctuary Management Plan.		✓	✓			• Dept. NPWS - Beung Popeir Wildlife	50 000
5	Prepare the Kulein Prumtep Wildlife Sanctuary Management Plan.	✓	✓				• Dept. NPWS - Kulein Prumtep Wildlife Sanctuary	50 000
6	Prepare the Kirirom Preah Soramarith-Kosomak National Park Management Plan.				✓	✓	• Dept. NPWS- Kirirum National Park	50 000
7	Prepare the Bok Kor (Preah Monivong) National Park Management Plan.			✓	✓		• Dept. NPWS - Bok Kor National Park	50 000
8	Effectiveness Assessment of the Natural Protected Areas Management.	✓					• Dept. NPWS-23 Protected Areas	20 000

❖ **Component 4: Capacity building and Cooperation with Partner organizations.**

**Aims/Purpose:**

- ❖ Build up the capacity of the specialized officials and looking for the partner organizations for supporting various activities.

**Outcomes:**

- The specialized officials have the capacity and the partner organizations have a close collaboration with the specialized/technical institutions.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Train the roles of the officials and roles of the judicial police agents.	✓	✓	✓	✓	✓	• Dept. NPWS	100 000
2	Train the method of suppression of crime and protection of ព្រៃឈើ to the park rangers.	✓	✓	✓	✓	✓	• Dept. NPWS	100 000
3	Train how to investigate the bio-diversity and how to record the data while patrolling.	✓	✓	✓	✓	✓	• Dept. NPWS	50 000
4	Train on investigation approach on wildlife and plants.	✓	✓	✓	✓	✓	• Dept. NPWS	50 000
5	Train the senior technical officials within the country and abroad.	✓	✓	✓	✓	✓	• Dept. NPWS	150 000
6	Coordinate the meeting between	✓	✓	✓	✓	✓	• Dept. NPWS	10 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	partner organizations on quarterly basis for information sharing and solutions.							
7	Build up the capacity of the specialized officials through the coordination for the counter officials to learn from the partner organizations.	✓	✓	✓	✓	✓	• Dept. NPWS	0
8	Prepare the development monitoring mechanisms within the natural protected areas.	✓	✓	✓	✓	✓	• Dept. NPWS - Dept. Admin & Finance	5 000

❖ **Component 5: Prepare the map, planting the boundaries post, demarcating the area and managing the data at the natural protected areas.**

**Aims/Purpose:**

- ❖ For the basis in sustainable management and sustainable use.

**Outcomes:**

- 6 natural protected areas have been fixed as the governing areas and 4 natural protected areas have been clearly planted the boundaries post.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Fix the governing areas in the Phnom Pich wildlife Sanctuary.	✓	✓				• Dept. NPWS - Phnom Pich wildlife Sanctuary	50 000
2	Fix the governing areas in the Botum Sakor National Park.		✓	✓			• Dept. NPWS - Botum Sakor National Park	50 000
3	Fix the governing areas in the Beung Popeir wildlife Sanctuary.		✓	✓			• Dept. NPWS - Beung Popeir wildlife Sanctuary	50 000
4	Fix the governing areas in the Kulein Prumtep wildlife Sanctuary.	✓	✓				• Dept. NPWS - Kulein Prumtep wildlife Sanctuary.	50 000
5	Fix the governing areas in the Kirirom Preah Soramarith-Kosomak National Park.				✓	✓	• Dept. NPWS - Kirirom National Park	50 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
6	Fix the governing areas in the Bok Ko Preah Monivong National Park.			✓	✓		• Dept. NPWS – Bok Ko National Park	50 000
7	Plant the boundaries post of the Beung Popeir wildlife Sanctuary.			✓			• Dept. NPWS – Beung Popeir wildlife Sanctuary	50 000
8	Plant the boundaries post of the Kulein Prumtep wildlife Sanctuary.		✓				• Dept. NPWS – Kulein Prumtep wildlife Sanctuary	50 000
9	Plant the boundaries post of the Lum Phat wildlife Sanctuary.				✓		• Dept. NPWS – Lum-Phat wildlife Sanctuary	50 000
10	Plant the boundaries post of the Phnom Pich wildlife Sanctuary.					✓	• Dept. NPWS – Phnom Pich wildlife Sanctuary	50 000

❖ **Component 6: Research and observe the animals and plants in the natural protected areas**

**Aims/Purpose:**

- ❖ To get the data on plant and animal species for conservation as a basis for the natural protected area management.

**Outcomes:**

- Report on identity, eco-feature, report on type of wildlife century and condition of animal and plant species within the natural protected area.
- Stability and the increase of plant and animal species which are exposed to the threat and lead to extinction.
- Understanding and participating in protection and conservation are increased.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Collect the plant and animal data in the natural protected areas.	✓	✓	✓	✓	✓	Dept. NPWS – Partner organizations	10 000
2	Identify the animal species which are at risk within the natural protected areas and for an immediate conservation.	✓	✓	✓	✓	✓	Dept. NPWS – Partner organizations	10 000
3	Create a plan for monitoring and		✓				Dept. NPWS Partner	10 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	conservation of animals and plants.						organizations	
4	Build an animals and plants museum					✓	Dept. NPWS - Partner organizations	20 000

❖ **Component 7: Establishment of National Plants and National Coastal Museum**

**Aims/Purpose:**

- ❖ Protect all types of domestic plant by establishing one forest national park at Kulein Mountain.
- ❖ Reforestation in the area of barren land in the natural protected areas by creating an abundance of forest types which are under the threat.

**Outcomes:**

- One forest national park for plant type conservation and protection is established.
- The area of barren land in the natural protected areas is reforested.
- A number of types of fine furniture wood and commercial woods which are almost extinct shall be increased.
- Good experiences gained in reforestation (rehabilitation of forest) within this 5 years period shall be taken into implemented in the other natural protected areas of the Kingdom of Cambodia.
- Forest National Park will be established.
- Location for establishing maritime national park shall be determined.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Coordinate with stakeholders to set up the forest national park.			✓			Dept. NPWS- Partner organizations	5 000
2	Organize and build the infrastructure of forest national park.				✓		Dept. NPWS- Partner organizations	10 000
3	Collect the natural plant species to supply to the forest national park.		✓	✓	✓	✓	Dept. NPWS - Partner organizations	10 000
4	Prepare the sidling paddy of forest national park according to the ecosystem within the forest national park.			✓	✓	✓	• Dept. NPWS	10 000
5	Organize the education, dissemination and tourism.				✓	✓	• Dept. NPWS	10 000
6	Make an inventory of land area	✓	✓	✓	✓	✓	• Dept. NPWS	25 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	which has to restore the forest within the natural protected areas.							
7	Prepare to set up the tree nursery paddy at the natural protected areas which are not yet set up.	✓	✓	✓	✓	✓	• Dept. NPWS	46 000
8	Study on potentiality of setting up the national sea park/national marine park	✓	✓	✓	✓	✓	• Dept. NPWS - සෘණ	50 000

### 3-5-2-2 Department of Research and Development of Natural Protected Area Community (Dept. RDN PAC)

#### ❖ Component 1: Identify the potential areas and understand the livelihood at the natural protected areas community

##### Aims/Purpose:

- ❖ To understand the living condition and the potential areas in developing the natural protected areas community.

##### Outcomes:

- Obtain the basic information for organizing the natural protected areas community.

##### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Study on potentiality of setting up the natural protected area community at the natural protected areas.	✓	✓	✓			- Dept. RDN PAC - Concerned Departments	22 500
2	Study and explore the profit sharing in the natural protected areas.		✓	✓			- Dept. RDN PAC - Concerned Departments	15 000
3	Study the possibility of use of land in the natural protected areas.				✓	✓	- Dept. RDN PAC - Concerned Departments	15 000
4	Study and explore the opportunity of improvement of the living standard of the natural protected area community.		✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	30 000

#### ❖ Component 2: Legal instruments that support the management of natural protected areas community

##### Aims/Purpose:

- ❖ Strengthen the effectiveness of implementing the natural protected areas community.



**Outcomes:**

The natural protected areas community has the Legal instruments for implementation.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Revise the draft Prakas on natural protected area community.	✓	✓				- Dept. RDN PAC - Concerned Departments	20 000
2	Revise the draft guideline on Procedure and Organization of the natural protected area community.	✓	✓	✓			- Dept. RDN PAC - Concerned Departments	27 500
3	Prepare the monitoring and evaluation mechanism for the natural protected area community.		✓	✓	✓		- Dept. RDN PAC - Concerned Departments	27 500
4	Prepare guideline of profit sharing in the natural protected area community.			✓	✓	✓	- Dept. RDN PAC - Concerned Departments	27 500

❖ **Component 3: Strengthen the management of natural protected areas community****Aims/Purpose:**

- ❖ Encourage and increase the participation from local community in management of natural resources.

**Outcomes:**

- The natural protected areas community has the Legal instruments for implementation.
- The natural protected areas community has operated its management.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Coordinate and organize to set up the natural protected area community.	✓	✓	✓	✓	✓	Dept. RDN PAC - Concerned Departments	60 000
2	Coordinate and suggest in organizing the boundaries of the locations of community area.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	50 000
3	Coordinate and suggest in preparation of statute.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	15 000
4	Make the posts and plant the posts as the demarcation of the natural protected area.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned	60 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
							Departments	
5	Coordinate and suggest for management planning.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	15 000
6	Coordinate and prepare the agreement for the natural protected area community.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	12 500
7	Monitor and evaluate the natural protected area community.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	15 000

❖ **Component 4: Disseminate and network of the natural protected areas community**

**Aims/Purpose:**

- ❖ Strengthen the capacity and cooperation between the natural protected area community and stakeholders.

**Outcomes:**

- Have good cooperation between the natural protected area community and stakeholders.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Train the natural protected area community.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	12 500
2	Study tour to the natural protected area community.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	12 500
3	Organize the network meeting of the natural protected area community.	✓	✓	✓	✓	✓	- Dept. RDN PAC - Concerned Departments	50 000

**3-5-2-3 Department of Wetlands and Coastal Zones (Dept. WCZ)**

❖ **Component 1: Management and Conservation of Wetlands, Watersheds and Coastal Zones.**

**Aims/Purpose:**

- ❖ Preserve the bio-diversity, national aesthetics, eco-system, culture and the sustainable living of the communities of the Wetlands, Watersheds and Coastal Zones.



### Outcomes:

- Combat the illegal acts of natural destruction in the Wetlands, Watersheds and Coastal Zones.
- Information and data on status of bio-diversity at the Wetlands, Watersheds and Coastal Zones.
- Natural resources at the Wetlands, Watersheds and Coastal Zones suffered from threat and deterioration have been restored.
- The community people in the area will understand on advantages of national resources and taking part in natural conservation and protection.
- The living of the community people has been fostered.

### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Operation and maintenance of infrastructure of wetlands, watersheds and coastal zones.	✓	✓	✓	✓	✓	-Dept. WCZ -Concerned stakeholders	165 000
2	Capacity training for the specialized officials.	✓	✓	✓	✓	✓	- Dept. WCZ -Concerned stakeholders	35 000
3	Prepare and implement the legal mechanism for the sustainable management of natural resources- bio-diversity at the wetlands, watersheds and coastal zones.	✓	✓	✓	✓	✓	- Dept. WCZ -Concerned stakeholders	375 000
4	Restore the degraded natural resources at the wetlands, watersheds and coastal zones.	✓	✓	✓	✓	✓	- Dept. WCZ -Concerned stakeholders -Provincial departments of environment	50 000
5	Survey and monitor the bio-diversity, ecology, the wetlands, watersheds and coastal zones.	✓	✓	✓	✓	✓	- Dept. WCZ - RAMSA director	200 000
6	Develop the livelihood of the people of the wetlands, watersheds and coastal zones.	✓	✓	✓	✓	✓	- Dept. WCZ -Concerned stakeholders	175 000
7	Strengthen and seek for national and international cooperation for the management and development of the wetlands, watersheds and coastal zones.	✓	✓	✓	✓	✓	- Dept. WCZ -Concerned stakeholders	75 000
8	Organize the World Wetlands Day of 2 <sup>nd</sup> February.	✓	✓	✓	✓	✓	- Dept. WCZ -Concerned stakeholders	20 000

❖ **Component 2: Management and Conservation of Multipurpose (Multiple-use) zone and biosphere reservoir.**

**Aims/Purpose:**

- ❖ Have sustainable Conservation and management of natural resources, bio-diversity and culture of the multipurpose area/zone and biosphere reservoir in partnership with local communities and concerned institutions.

**Outcomes:**

- Operation and maintenance of infrastructure shall be strengthened.
- Be able to control illegal acts of natural resources destruction within the multipurpose area/zone and biosphere reservoir.
- Making of inventory, research and monitoring on bio-diversity shall be made implemented.
- Be able to reduce the pressure of the use of resources and bio-diversity in the area through the increase of employment to the local communities.
- The national and international cooperation have been strengthened.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Organize and maintain infrastructure, materials and equipments for management of the multipurpose area and biosphere reservoir.	✓	✓	✓	✓	✓	- Dept. WCZ - Concerned stakeholders	253 500
2	Establish and strengthen legal mechanism, management plan, strategic plan and various programs for management and rehabilitate the wildlife century and bio-diversity resources.	✓	✓	✓	✓	✓	- Dept. WCZ - Concerned stakeholders	1 567 000
3	Create method and implement the inventory making and surveillance program for bio-diversity in the multipurpose area and the biosphere reservoir.	✓	✓	✓	✓	✓	- Dept. WCZ - Concerned stakeholders	150 000
4	Organize and implement the livelihood development program of the local community.	✓	✓	✓	✓	✓	- Dept. WCZ - Concerned stakeholders	500 000
5	Need assessment and provision of training to the environmental officials and the park rangers based in the area.	✓	✓	✓	✓	✓	- Dept. WCZ - Concerned stakeholders	61 500
6	Seek international cooperation for management and development of the multipurpose area and the biosphere reservoir.	✓	✓	✓	✓	✓	- Dept. WCZ - Concerned stakeholders	75 000



❖ **Component 3: Management and Conservation of the Landscape protected areas**

**Aims/Purpose:**

- ❖ Be able to conserve the forest, wildlife and natural landscape which are unique in natural aesthetics or modify the ecology or culture and, in general, abounded in bio-diversity.
- ❖ Keep sustainable protection of custom, tradition and culture in the natural protected areas.

**Outcomes:**

- Ensure effectiveness of management in the landscape protected areas and ensuring the sustainability of resources within the area.
- Be able to monitor and evaluate the work activities and various progresses and the impact on the natural resources by reflecting the threat and shortcomings arising from the implementation of plan.
- Discover the shortcomings and the pending activities in order to revise the management plan.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Strengthen and improve specialized knowledge-techniques.	✓	✓	✓	✓	✓	- Dept. WCZ – Concerned stakeholders	150 000
2	Mainstream the broad dissemination.	✓	✓	✓	✓	✓	- Dept. WCZ - Concerned stakeholders	120 000
3	Study the history of eco-system, genetic of animal and plant, attractive potentialities, impacts and culture, tradition and custom.	✓	✓	✓	✓	✓	- Dept. WCZ -Concerned stakeholders	267 000
4	Wildfire preventive measures.	✓	✓	✓	✓	✓	- Dept. WCZ- Concerned stakeholders	125 000
5	Strengthen laws and legal systems related to management issue.	✓	✓	✓			- Dept. WCZ -Concerned stakeholders	100 000
6	Reforestation in the degraded areas.	✓	✓				- Dept. WCZ - Concerned stakeholders	67 500
7	Strengthen national and international cooperation as well as the concerned institutions.		✓	✓	✓	✓	- Dept. WCZ -Concerned stakeholders	42 500
8	Manage, organize and develop the “Natural Tourism”.	✓	✓	✓			- Dept. WCZ -Concerned stakeholders	317 500

❖ **Component 4: Formulate the sub-decree on “Management and Conservation of Natural Resources of Coastal Zones”.**

**Aims/Purpose:**

- ❖ Ensure effective and sustainable Management and Conservation of Natural Resources of Coastal Zones.
- ❖ Ensure management of Natural Resources of Coastal Zones with clear jurisdiction.

**Outcomes:**

- Have the sub-decree on “Management and Conservation of Natural Resources of Coastal Zones” shall be officially adopted by the Royal Government.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Prepare and collect relevant documents.		✓				-Department of Planning and legal affairs - Dept. WCZ - Concerned stakeholders	1 250
2	Set up a working group to draft the sub-decree on “Management and Conservation of Natural Resources of the Coastal Zones”.		✓				-Department of Planning and legal affairs - Dept. WCZ - Concerned stakeholders	1 250
3	Organize the consultative meetings with concerned institutions, NGOs and civil society and with the law makers for revising the sub-decree.		✓				-Department of Planning and legal affairs - Dept. WCZ -Concerned stakeholders	10 000
4	Submit the draft of sub-decree to the Council of Ministers for the review and approval.			✓			-Department of Planning and legal affairs - Dept. WCZ -Concerned stakeholders	2 500
5	Publish and disseminate the approved sub-decree to all concerned institutions and stakeholders.			✓			-Department of Planning and legal affairs - Dept. WCZ -Concerned stakeholders	12 500

**3-5-2-4 Department of International Convention and Bio-diversity (Dept. ICB)**

- ❖ **Component 1: Administration and Planning Affairs.**



**Aims/Purpose:**

- ❖ Organize and adjust the management structure, staffing and the specialized officials according to the technical specialization and experiences to carry out the work activities within the department in an effective manner.

**Outcomes:**

- Have a management structure and staff appropriately to the technical specialization and experiences.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Revise the structure of management, staffing and organizing the officials according to the technical skills and experiences.	✓	✓	✓	✓	✓	Department of international convention and bio-diversity	10 000
2	Organize, monitor and evaluate on the work seniority of the civil servants.	✓	✓	✓	✓	✓	Department of international convention and bio-diversity	6 000

❖ **Component 2: Bio-diversity****Aims/Purpose:**

- ❖ Comply with the principles of the convention on Bio-diversity and the Bio-safety protocol in an effective manner.
- ❖ Liaise and collaborate and coordinate the work with concerned institutions, national and international organizations to request for budget assistance for the implementation of the convention on bio-diversity and bio-safety protocol.
- ❖ Research study and compile the data and identify the effective alternatives on situation and evaluate the bio-diversity resources including the technological transfer.
- ❖ Organize the comprehensive educational and dissemination program in all forms on Natural Resources protection and conservation, restoration, improvement of bio-diversity resources and the eco-system.
- ❖ Follow up, monitor and implement the law in the framework as part of the judiciary in accordance with the legal instrument in management of bio-diversity resources and natural resources.
- ❖ Organize mechanism for promotion and coordination in scientific and technical cooperation, information exchange and strengthening the network at a national, regional and international level.
- ❖ Strengthen the national institution responsible for bio-diversity and the technical capacity of the office of bio-diversity.

**Outcomes:**

- National communication on implementation of UN conventions, international conventions, international protocol and various environmental agreements will be prepared for submission to the responsible secretariat.
- Cooperation and coordination mechanism with concerned institutions, national and international NGOs to request for budget assistance for implementing the UN conventions,

international conventions, international protocol and various environmental agreements will be prepared and strengthened.

- The database management system on situation and assessment of bio-diversity including technological transfer which can promote the sustainable use of bio-diversity resources inclusion will be prepared, identified, selected and implemented.
- Natural resources protection and conservation, restoration, improvement and ecological system and understanding on climate change will be disseminated to the general public, policies makers and other concerned stakeholders.
- Have sufficient possibility and capacity to contribute in monitoring and implementing of law in the framework of judicial police in accordance with legal procedure in management of bio-diversity resources and natural resources in the natural protected re and evaluate the implementation of UN conventions, international conventions, international protocols and various environmental agreements.
- Have an appropriate mechanism for promotion and coordination in scientific and technical cooperation, information exchange and strengthening the network at national, regional and international level will be established and strengthened.
- Have an appropriate capacity for implementing the management of bio-diversity and responding to the implementation of convention on bio-diversity and bio-safety protocol will be fulfilled the international obligations.

#### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Prepare the national communication for implementation of international convention on bio-diversity for submission to the secretariat.	✓	✓	✓	✓	✓	• Office of bio-diversity of the department of international convention and bio-diversity.	200 000
2	Provide recommendations and prepare the position negotiation for the inter-ministerial meetings, the region and international meeting.	✓	✓	✓	✓	✓	• Office of bio-diversity of the department of international convention and bio-diversity.	50 000
3	Collaborate and strengthen the cooperation with concerned institutions, national, international, NGOs, governmental organs and local communities.	✓	✓	✓	✓	✓	• Office of bio-diversity of the department of international convention and bio-diversity.	25 000
4	Research study, compile data and identify the effective alternatives on situation and assess the bio-diversity resources including technological transfer.	✓	✓	✓	✓	✓	• Office of bio-diversity of the department of international convention and bio-diversity.	300 000
5	Propose projects for resources mobilization and financial proposals	✓	✓	✓	✓	✓	• Office of bio-diversity of the	30 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	to the donors.						department of international convention and bio-diversity.	
6	Educate and disseminate to the public to be aware of the advantages of bio-diversity resources and their impacts.	✓	✓	✓	✓	✓	• Office of bio-diversity of the department of international convention and bio-diversity.	200 000
7	Organize and attend the trainings, workshops and meetings related to bio-diversity.	✓	✓	✓	✓	✓	• Office of bio-diversity of the department of international convention and bio-diversity.	50 000
8	Follow up, monitor and evaluate the implementation of international convention on bio-diversity in Cambodia.	✓	✓	✓	✓	✓	• Office of bio-diversity of the department of international convention and bio-diversity.	25 000
9	Coordinate and exchange of information in management and updating of bio-diversity database.	✓	✓	✓	✓	✓	• Office of bio-diversity of the department of international convention and bio-diversity.	100 000

### ❖ Component 3: Climate change

#### **Aims/Purpose:**

- ❖ Raising awareness of climate change.
- ❖ Strengthening the national institution which responsible for climate changes.
- ❖ Strengthening the technical capacity of the office of climate change.
- ❖ Promoting the implementation of UNFCCC and Kyoto protocol.
- ❖ Making an inventory of Green House Gas and promotions of green house gas emission mitigation.
- ❖ Conducting vulnerability assessment and climate change adaptation.
- ❖ Promoting cooperation and national and international network.

#### **Outcomes:**

- Have the coordinating capacity in response to the climate change and fulfillment of international obligations.
- Actively involved in global effort to respond to the climate change as well as to enhance the national capacity in fulfillment of obligations determined by the convention on climate change.

- The green house gas inventory system is organized and functioned.
- The green house gas emission reduction measures which provide support to the national sustainable development goals have been identified, assessed and selected.
- Vulnerability and climate changed adaptation shall be assessed and identified.
- Gain experiences and information relating to climate change for knowledge transferring and increasing chance for budget mobilizing for the climate change project.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	<ul style="list-style-type: none"> <li>• Integrate the topic on climate change into educational curriculum</li> <li>• Create the website on Climate Change, improving and adding new information</li> <li>• Publish the brochure on climate change</li> <li>• Disseminate topics on climate via various media systems</li> <li>• Organize workshops, meetings related to topics of climate change</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Climate change office of the Department of International Convention and Bio-diversity</li> </ul>	50 000
2	<ul style="list-style-type: none"> <li>• Strengthen the National Committee on Climate Change</li> <li>• Strengthen the national institutions in charge of CDM and formulate necessary legal regulations</li> <li>• Promote and strengthen coordination and cooperation with national and international stakeholders</li> <li>• View and prepare legal regulations related to climate change</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Climate change office of the Department of International Convention and Bio-diversity</li> </ul>	30 000
3	<ul style="list-style-type: none"> <li>• Recruit new additional civil servants for serving the office</li> <li>• Organize technical training course aims at technical capacity building</li> <li>• Organize structure, roles and responsibilities of the office of climate change</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Climate change office of the Department of International Convention and Bio-diversity</li> </ul>	10 000
4	<ul style="list-style-type: none"> <li>• Prepare the second national communication</li> <li>• Train the ministerial leaders in charge of climate change and officials of office of climate change on art of negotiation</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>• Climate change office of the Department of International Convention and Bio-diversity</li> </ul>	400 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	<ul style="list-style-type: none"> <li>Continue to implement the climate change projects and identify new climate change projects for submitting to the Global Environmental Facility (GEF)</li> </ul>							
5	<ul style="list-style-type: none"> <li>Decentralize activities for making green house gas inventory in various sectors</li> <li>Organize the database management system of green house gas inventory</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Climate change office of the Department of International Convention and Bio-diversity</li> </ul>	35 000
6	<ul style="list-style-type: none"> <li>Prepare an annual climate data</li> <li>Mobilize resources for project implementation</li> <li>Prepare a national action plan for climate change adaptation from the global environmental facility, IOs, bilateral donors, NGOs etc.</li> <li>Comprehensive assessment on sectoral vulnerability and climate change adaptation measures for various priority sectors.</li> <li>Improve understanding and technical capacity on software</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Climate change office of the Department of International Convention and Bio-diversity</li> </ul>	250 000
7	<ul style="list-style-type: none"> <li>Comprehensive study on potentiality of green house gas emission mitigation in key sectors</li> <li>Identify and evaluate the green house gas emission mitigation technology/measure</li> <li>Continue to identify the clean development mechanism projects and compile the record</li> <li>Collaborate with developed countries to promote for the clean development mechanism projects investment</li> <li>Collaborate with line ministries to study and assess the potentiality on green house gas mitigation from forestry (REDD+)</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Climate change office of the Department of International Convention and Bio-diversity</li> </ul>	200 000
8	<ul style="list-style-type: none"> <li>Strengthen and expand the network cooperation with concerned institutions, national/international</li> </ul>	✓	✓	✓	✓	✓	<ul style="list-style-type: none"> <li>Climate change office of the Department of International</li> </ul>	5 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	organizations <ul style="list-style-type: none"> <li>Attend international meetings on climate change</li> <li>Attract international donors and research institutions in the climate change sector</li> </ul>						Convention and Bio-diversity	

#### ❖ Component 4: RAMSA Convention

##### Aims/Purpose:

- ❖ Strengthen cooperation with institutions, national/international organizations in implementation of RAMSA Convention to enhance the natural management, protection and conservation and bio-diversity resources of the wetland for the sustainable use and in line with the Royal Government policies.
- ❖ Increase awareness on RAMSA Convention content and importance of wetland area to the public, policies makers and other concerned stakeholders.

##### Outcomes:

- RAMSA Convention shall be effectively implemented under the cooperation with national/international institutions and organizations.
- The content of RAMSA Convention and the importance of the wetland area shall be disseminated and be mainstreamed to the public, policies makers and other concerned stakeholders.

##### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Coordinate and offer recommendations in formulation of policies, laws and strategic planning as well as national action planning for the implementation of RAMSA Convention and RAMSA area	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	50 000
2	Update the natural resources database of RAMSA area and Information on status of implementation of RAMSA Convention in cooperation with the office of coordination mechanism and information exchange	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	75 000
3	Prepare the report of national activities and work achievement on RAMSA Convention implementation	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	100 000
4	Monitor, evaluate and enhance the implementation of RAMSA	✓	✓	✓	✓	✓	• Department of International	50 000



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	Convention in Cambodia						Convention and Bio-diversity	

❖ **Component 5: Organizing coordination mechanism and information exchange**

**Aims/Purpose:**

- ❖ Create information system and communication network for management, maintenance and sharing the bio-diversity data aims at promoting an exchange of information on science and technique at national, regional and international level with various institutions, national/international organizations.
- ❖ Promote education, dissemination of bio-diversity and international conventions, protocols and agreements to the general public, the policies makers and other stakeholders.

**Outcomes:**

- The information system and communication network for management, maintenance and sharing the bio-diversity data aims at promoting an exchange of information on science and techniques at national, regional and international level with various institutions, national/international organizations is created and implemented.
- Information on bio-diversity resources, international conventions, protocols and agreements is disseminated and mainstreamed to the general public, the policies makers and other stakeholders.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Promote scientific and technical cooperation at a national, regional and international level.	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	50 000
2	Promote an exchange of information with concerned institutions, national/international organizations and among signatory countries to the international conventions.	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	100 000
3	Create and strengthen network at a national, regional and international level with concerned institutions, national/international organizations	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	100 000
4	Create an information system for management and maintenance of bio-diversity and documents-related information to the international conventions, protocols and agreements	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	200 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
5	Organize educational education and dissemination	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	200 000

#### ❖ Component 6: Agreement

##### Aims/Purpose:

- ❖ Cooperate, coordinate the work with concerned institutions and provide recommendations on policies making, legal rules for organizing and implementing the environmental agreements aims at enhancing the protection and conservation of natural resources and bio-diversity in the natural protected areas.

##### Outcomes:

- Mechanism and legal rules related to environmental agreements will be organized and effectively implemented.

##### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Prepare letters, documents and disseminate the agreement related certifications and documentations.	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	50 000
2	Coordinate and give recommendation in policies making, legal rules and regulations in strategic planning and national action planning for protection and conservation of natural resources and bio-diversity.	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	60 000
3	Collect, compile documents, monitor and evaluate the implementation of agreements in Cambodia.	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	60 000
4	Prepare the report and outcome resulted from the agreement.	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	25 000

#### ❖ Component 7: Natural legacy

##### Aims/Purpose:

- ❖ Coordinate and provide recommendations on policies making, legal rules and regulations for strategic planning and national action planning in management of natural legacy area in accordance with the Royal Government policies and comply with the principles of international conventions, protocols and agreements.



- ❖ Monitor and evaluate the implementation of strategic plan and national action plan in management of natural legacy areas.

**Outcomes:**

- Policies and legal rules will be organized for strategic and national action planning in management of natural legacy area.
- The report of the detail activities on outcome of implementation is prepared.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Coordinate and offer recommendations on policies making and legal rules formulation for the management of the natural legacy areas.	✓	✓	✓	✓	✓	• Department of International Convention and Biodiversity	60 000
2	Monitor and evaluate the implementation of strategic and action plan.	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	100 000
3	Prepare the report on activities and work outcomes.	✓	✓	✓	✓	✓	• Department of International Convention and Bio-diversity	60 000

### 3-5-3 General Department of Administration and Finance

#### 3-5-3.1 Department of Administration and General Affairs

❖ **Component 1: Administration**

**Aims/Purpose:**

- ❖ Strengthen the administration work to be functioned appropriately according to the inter-ministerial standard.

**Outcomes:**

- Circulate and distribute the letters on a timely basis, manage all types of letters thoroughly and manage the archives in accordance with the procedure.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Manage the in-coming letters	✓	✓	✓	✓	✓	Department of Administration and General Affairs	9 500
2	Prepare the record keeping to submit to the leaders for approval	✓	✓	✓	✓	✓	Department of Administration and General Affairs	5 000

3	Manage the outgoing documents appropriately according to the administrative procedure	√	√	√	√	√	Department of Administration and General Affairs	4 500
4	Prepare various letters/instruments of the ministry and strengthen the service management.	√	√	√	√	√	Department of Administration and General Affairs	81 000
5	Prepare and consolidate the reports on a monthly, quarterly, semester and annually basis.	√	√	√	√	√	Department of Administration and General Affairs	28 000
6	Prepare the archives of the ministry and maintain the documents.	√	√	√	√	√	Department of Administration and General Affairs	81 000

❖ **Component 2: General Affairs**

**Aims/Purpose:**

- ❖ Strengthen the general affairs

**Outcomes:**

- Have effective public relations

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Cooperate with relevant institutions for organizing the national events ceremony: - 7 January day - New year days - Pisak Bochhea-Meak Bochhea - Royal sloughing ceremony - King birthday - Constitutional day and Coronation day - National independence day - Phachhumben days (Spiritual Commemoration ceremony) - Water festival days	√	√	√	√	√	Department of Administration and General Affairs	25 000
2	Cooperate with relevant institutions for organizing the international events: - International new year day/ Christmas - International Environmental day - International women day	√	√	√	√	√	Department of Administration and General Affairs	10 000
3	Strengthen protocol work	√	√	√	√	√	Department of Administration and General Affairs	9 000
4	Strengthen security work and ministry internal order (water safety, fire, sanitation and communication...)	√	√	√	√	√	Department of Administration and General Affairs	45 000



### 3-5-3.2 Department of Accounting and Finance

#### ❖ Component 1: Non-tax revenue

##### **Aims/Purpose:**

- ❖ Achieve the management and collection of non tax revenue as planned for the improvement of budget credibility.

##### **Outcomes:**

- Have a clear mechanism for collection of revenue and management of revenue in an effective manner.

##### **Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Contribute to providing related information for formulating revenue policies.	✓	✓	✓	✓	✓	• Department of Accounting and Financial Affairs	0
2	Review the existing legal framework on revenue collection and propose the revision of inter ministerial Prakas on Incentives to the revenue collecting unit.	✓	✓				• Department of Accounting and Financial Affairs	10 000
3	Prepare a mechanism for collection and payment to national budget within the timerame as planned.	✓	✓	✓	✓	✓	• Department of Accounting and Financial Affairs	30 000

#### ❖ Component 2: Financial Management

##### **Aims/Purpose:**

- ❖ Clarify the roles and responsibilities on financial management of the subordinating units of the ministry.

##### **Outcomes:**

- Will be able to improve the financial accountability, budget management accountability, connection from budget to policies and accountability achievements.

##### **Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Strengthen structure of budget management of the subordinating units.	✓	✓	✓	✓	✓	• Department of Accounting and Finance	20 000
2	Prepare the medium and long term annual budget plan	✓	✓	✓	✓	✓	• Department of Accounting and Finance	0
3	Train the focal trainers for training to the officials performing the financial work.		✓	✓	✓	✓	• Department of Accounting and Finance	10 000
4	Disseminate and organize procedure for implementation of the budget	✓	✓	✓	✓	✓	• Department of Accounting and Finance	20 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	plan in the subordinating units of the ministry.						Finance	
5	Organize the ministerial internal procedure, ready to implement program based budget.	✓	✓	✓	✓		• Department of Accounting and Finance	0
6	Cooperate and participate in training workshop on budget management according to the information system (MFIS)	✓	✓	✓	✓	✓	• Department of Accounting and Finance	30 000
7	Continue to implement the new budget content and financial report to ensure transparency.	✓	✓	✓	✓		• Department of Accounting and Finance	0

### 3-5-3.3 Department of Personnel and Human Resource Development

#### ❖ Component 1: Human Resource Development

##### Aims/Purpose:

- ❖ Strengthen the capacity of officials in environmental departments and capital/provincial departments of environment.

##### Outcomes:

- Have improved the capacity of specialized officials for implementation of the work.

##### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Manage the officials who have been trained domestically and externally, and assess the training needs of the capital/provincial officials.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	3 000
2	Organize the short term and long term training plan for the specialized officials.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	20 000
3	Strengthen the international cooperation on human resource development sector domestically and externally.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	0
4	Promote and encourage the secondary level officials and higher level officials who have received the training at the Royal School of Administration.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	0



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
5	Train 3-5 post higher education officials per year.	√	√	√	√	√	• Department of Personnel and Human Resource Development	10 000
6	Train the officials at the post entry recruitment.	√	√	√	√	√	• Department of Personnel and Human Resource Development	15 000
7	Organize to set up the focal trainers/training of trainers and train the civil servants at the capital/provincial departments of environment.	√	√	√	√	√	• Department of Personnel and Human Resource Development	20 000
8	Prepare procedure request for establishment of the National Institute of Environment.		√	√			• Department of Personnel and Human Resource Development	

## ❖ Component 2: Personnel Management

### Aims/Purpose:

- ❖ Strengthen the implementation of co-statute for civil servants and separate statute for civil servants.
- ❖ Continue to organize and integrate the civil servants into each separate framework.

### Outcomes:

- Have effective management of civil servants and integrate the civil servants in accordance with the determined framework.

### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Strengthen the civil servants management according to the annul score card/score bulletin.	√	√	√	√	√	• Department of Personnel and Human Resource Development	0
2	Continue to integrate the civil servants into the framework of administration, technique, non-commissioned officials and secretarial officials.	√	√	√	√	√	• Department of Personnel and Human Resource Development	0
3	Continue to implement the retirement plan as prescribed and thoroughly manage the officials who are free,	√	√	√	√	√	• Department of Personnel and Human	0

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	with no salary.						Resource Development	
4	Prepare the requirement plan for recruitment of annual new officials and organize the recruitment exam, according to the specialization.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	12 500
5	Organize the promotion of rank/position and regularly upgrade the position allowance on an annual basis.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	262 500
6	Encourage the civil servants through the Priority Action Group of Merit Based Performance Initiative, and provide appropriate honorary medals reward.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	30 000
7	Organize and compile laws- Royal decrees, sub-decrees, Prakas, decisions, circulars, guidelines and co-statute.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	5 000
8	Monitor the work management structure in the capital/provincial departments of environment.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	50 000
9	Prepare a data management system of civil servants through an IT system.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	15 000

### ❖ Component 3: State Employee Salary

#### Aims/Purpose:

- ❖ Strengthen the provision of proper salary to the civil servants as determined by the state.

#### Outcomes:

- Every civil servant receives appropriate salary according to the scale, rank and position.

#### Activities:

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Continue the procedure of integrating civil servants into the payroll appropriately according to the	✓	✓	✓	✓	✓	• Department of Personnel and Human	0



N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	guideline of the state secretariat of public function and the general secretariat of public administrative reform.						Resource Development	
2	Increase the salary of the civil servants up to 20% annually.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	0
3	Prepare the monthly comparative payroll on a timely basis and encourage the regular provision of salary.	✓	✓	✓	✓	✓	• Department of Personnel and Human Resource Development	0

### 3-5-4 General Inspectorate

#### 3-5-4.1 Department of Administration and General Affairs

##### ❖ Component 1: Inspection

##### *Aims/Purpose:*

- ❖ Pay attention to tracking, research, monitoring and operation, the inspection on various sectors related to environment as well as natural resources in the subordinating units of the ministry.
- ❖ Good governance

##### *Outcomes:*

- The officials have the capacity, initiative and creativity
- Have a comprehensive knowledge on inspection work and environment

##### *Activities:*

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Strengthen the way of work within the subordinating units and in the capital/provincial departments of environment for enhancing good governance.	✓	✓	✓	✓	✓	• General inspectorate	20 000
2	Resolve the administrative disputes	✓	✓	✓	✓	✓	• General inspectorate	10 000
3	Train the inspection officials	✓	✓	✓	✓	✓	• General inspectorate	20 000
4	Look for the sources of budget for an incentive for the green implementers/baiting implementers	✓	✓	✓	✓	✓	• General inspectorate	10 000
5	Set up the information giving agent	✓	✓	✓	✓	✓	• General	5 000

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
	within the provincial departments of environment and create the mail box.						inspectorate	

### 3-5-5 Internal Audit Department

#### ❖ Component 1: Auditing

##### *Aims/Purpose:*

- ❖ Assist the subordinating units of the Ministry of Environment to improve effectiveness and efficiency and reduction of risk in implementation of work.
- ❖ Monitor and evaluate the leadership system on implementation of the management of revenue, expenditure and state properties to appropriately meet the public financial principle.

##### *Outcomes:*

- Manage the subordinating units of the Ministry of Environment and effectively and efficiently proceed the management as well as the risk reduction.
- Be economized and effective in the use of state resources.

##### *Activities:*

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Train the human resource on auditing	✓	✓	✓	✓	✓	• Internal Audit department	5 000
2	Audit the bodies/units under the Ministry	✓	✓	✓	✓	✓	• Internal Audit department	1 000
3	Audit the capital/provincial departments of environment	✓	✓	✓	✓	✓	• Internal Audit department	8 500
4	Audit the projects under the ministry of environment in collaboration with specialized departments, ministries and institutions.						• Internal Audit department	1 000

### 3-5-6 Gender Secretariat

#### ❖ Component 1: Gender work

##### *Aims/Purpose:*

- ❖ Improve an understanding of the environmental affairs for the leadership and officials at all levels of the Ministry of Environment strongly associated with the environmental sector and increase the support of the ministerial leadership on the promotion of gender equality within the environmental sector.
- ❖ Increase the responsibility and the number of women in leadership position in the Ministry of Environment.
- ❖ Improve the capacity of rural women to use and manage the natural resources conservation and various environmental services.
- ❖ Improve knowledge and skills for the environmental women officials through the participation in training courses both domestically and externally.



**Outcomes:**

- All subordinating units of Ministry of Environment understand the meanings of policies of gender mainstreaming.
- All subordinating units of Ministry of Environment contribute to supporting gender equality in an effective manner.

**Activities:**

N	Activities	Time					Responsible Agency	Resources Needed (\$)
		2009	2010	2011	2012	2013		
1	Prepare gender mainstreaming, strategic plan, publish and disseminate to the Ministry, capital/provincial departments of environment.	✓	✓				• Gender secretariat	10 000
2	Organize training courses on gender mainstreaming for the focal officials.	✓	✓	✓	✓	✓	• Gender secretariat	30 000
3	Provide training on gender mainstreaming policies to environmental officials at national and provincial level.	✓	✓	✓	✓	✓	• Gender secretariat	30 000
4	Short-term educational campaign on roles of women contributing to the natural resources conservation in the natural protected areas and the importance of services resulting from the environment.	✓	✓	✓	✓	✓	• Gender secretariat	40 000
5	Domestic and external studies tour.	✓	✓	✓	✓	✓	• Gender secretariat	25 000

**3-6 Requirement for Realization of Strategic Plan Implementation**

In this part, there is an identification of needs related to the long term objectives and various subjects shown in the action plan of the specialized departments, but the strategic plan does not describe the common activity related to each need. Moreover, a number of needs which have been raised in the following part can have difficulties in achieving the targets in the Cambodian context. These needs shall be determined by 4 basic factors for the Cambodian government as well as the Ministry of Environment itself of their effort for the environmental protection, natural resources conservation, reduction and abolition of environmental pollution and in ensuring the completed sustainable development in Cambodia. The 4 major needs are as follows:

**3-6-1 Source of Donors**

This 4th Environmental Strategic Plan 2009-2013 has been designed by the specialized officials of the Department of Planning and Legal Affairs of the Ministry of Environment in close collaborations among various specialized Departments of the Ministry. The Ministry of Environment hopes that various activities prescribed in this plan will receive the support from the government under the national budget package and under the Priority Action Projects of the Royal Government of Cambodia, and from various donor countries as well as donors community subsequently such as

Global Environmental Facility, World Bank, Asian Development Bank, Canadian Fund, Nongovernmental organizations such as WWF, FFI, IDRC and other sources, etc.

### **3-6-2 Cooperating Institutions**

In the phase of implementation of this 4th Environmental Strategic Plan 2009-2013, the Ministry of Environment with the policies, technical and financial support from the donor agencies and from the Royal Government of Cambodia the ministry will closely work with various stakeholders such as: Council for Development of Cambodia, Ministry of Agriculture, Forestry and Fisheries, Ministry of Industry, Mine and Energy, Ministry of Commerce, Ministry of Health, Ministry of Water Resource and other concerned ministries, NGOs as well as private companies, etc.

In order to implement this 4th Strategic Plan 2009-2013 towards success and to realize the purposes which have been set forth, the stable management of natural resources, the fostering of people well-being contributing to the prevention, reduction and abolition of the environmental pollution is a must requiring full and active participation from all strata of life of Cambodia and needing helps to ensure sustainable development.

### **3-6-3 Date of Implementation of the 4th Strategic Plan 2009-2013**

The 4th Strategic Plan is determined for 5 years operation (2009-2013) as indicated in the Table of Activities based on the purposes of each component in the part mentioned above. In particular, the mid of 2009 is the time that the Ministry has successfully prepared this strategic plan to implement various action plans within the first year. This 4th Strategic Plan has set forth many action plans, but operational budget and other resources needed as well as the potential donor agencies are not yet known.

In this circumstance, the Ministry of Environment faces two major tasks to be handled: First, seeking technical and financial assistance in addition to the state budget for the implementation of this plan. Second, the additional capacity building to the officials both at ministerial and capital/provincial level for implementation of the plan is to be conducted. The summary on major objectives and expected outcomes including activities contained in this plan have already determined the implementing period. Moreover, this plan can be rolled to next 2 or 3 years as necessary. For example, to 2015, if the evaluation of this plans implementation is found incomplete or shall be continued. It should be noted that a major number of components which have been raised in this plan is obvious that it is not fully completed. But the steps of wise implementation of the plan only aim at achieving the set objectives.

### **3-6-4 Financial Resource Requirement**

In the implementation of this 4th Environmental Strategic Plan (2009-2013) will need the total budget around **17, 093, 000** US dollars. The national budget provided to the Ministry of Environment will give the nationally combined inputs for the effective implementation of the 4th Environmental Strategic Plan. The Ministry can use this budget for a number of work such as: Salary, traveling and accommodation expenses while performing the tasks, materials, keeping maintenance, having direct consultations through the Department of Technique and the national technical experts as well as the operation cost. At the same time, the technical officials at all levels will join hand in hand to implement various projects which have been set forth in the Environmental Strategic Plan to support the operations of the plan. This is to make the process of implementation of the Environmental Strategic Plan to be effective and to meet the time frame as



well as to obtain the success. We do hope that the management and the use of national budget for the priority works in the environmental sector will have the transparency and good governance.

Moreover, the state budget can also be provided as the contribution (either in asset or cash) by not exceeding 20% of the project budget for supporting the operation process of various projects to realize the success. The financial sources from the donor countries shall be provided through the Ministry of Environment in the form of bilateral and multilateral assistance so as to contribute to the implementation of this 4th Environmental Strategic Plan of the Ministry efficiently and effectively. The Ministry also accepts every contribution of the donors for the effectiveness of implementation of this plan in all forms, i.e. the expert, specialist, administrative support, technical assistance, services contracts, expenses on general operation, training, the supply of materials/equipments and other expenses for the effectiveness of implementation of this 4th Environmental Strategic Plan. The table below will indicate the budget requirement which has been proposed by various specialized departments for the implementation according to each component of this Environmental Strategic Plan.

**Summary of Budget for Environmental Strategic Plan Implementation: 2009-2013**

No.	Components determined by Specialized Departments	Budget Estimation (USD\$)
<b>I</b>	<b>General Department of Technique</b>	
<b>1</b>	<b>Department of Planning and Legal Affairs (Department A)</b>	
1-1	❖ Component 1: Human Resource Development	77 500
1-2	❖ Component 2: Development of Environmental Plan at National, capital/provincial level.	131 000
1-3	❖ Component 3: Development the 2 <sup>nd</sup> National Environmental Plan	65 000
1-4	❖ Component 4: Development of Policies and Legal Framework	120 000
	<b>Total (1)</b>	<b>393 000</b>
<b>2</b>	<b>Department of Environmental Impact Assessment and Review (Department F)</b>	
2-1	❖ Component 1: Capacity Building	187 000
2-2	❖ Component 2: Legal Framework and Policies	480 000
2-3	❖ Component 3: Review and Comment on Environmental Impact Assessment	212 000
2-4	❖ Component 4: Observation and Monitoring	176 000
2-5	❖ Component 5: Research	280 000
	<b>Total (2)</b>	<b>1 335 000</b>
<b>3</b>	<b>Department of Pollution Control (Department C)</b>	
3-1	❖ Component 1: Water pollution control	297 000
3-2	❖ Component 2: Solid waste management	245 000
3-3	❖ Component 3: Management of air pollution, noise pollution and vibration	370 000

No.	Components determined by Specialized Departments	Budget Estimation (USD\$)
3-4	❖ Component 4: Environmental lab	227 000
3-5	❖ Component 5: Capacity building and Public awareness	145 000
	<b>Total (3)</b>	<b>1 284 000</b>
<b>4</b>	<b>Department of Natural Resources Assessment &amp; Environmental Data Management (Department D)</b>	
4-1	❖ Component 1: Preparation-creation of original sample	130 000
4-2	❖ Component 2: Preparation-making a report of natural resources assessment, national environmental action	267 000
4-3	❖ Component 3: Website management of the ministry of environment and environmental information dissemination	109 000
	<b>Total (4)</b>	<b>506 000</b>
<b>5</b>	<b>Department of Environmental Education and Communication (Department E)</b>	
5-1	❖ Component 1: Coordinate and Cooperate on environmental education for the sustainable development	173 000
5-2	❖ Component 2: The human resource development for the environmental education for the sustainable development	280 000
5-3	❖ Component 3: Environmental awareness promotion program and Information Exchange	370 000
5-4	❖ Component 4: Research and development of environmental document	158 000
5-5	❖ Component 5: Planning, monitoring and evaluation of environmental education	220 000
	<b>Total (5)</b>	<b>1 201 000</b>
<b>6</b>	<b>Department of International Cooperation</b>	
6-1	❖ Component 1: Cooperate on environmental sector	239 000
	<b>Total (6)</b>	<b>239 000</b>
<b>II</b>	<b>General Department of Natural Protection and Conservation (Gen. Department PA)</b>	
<b>1</b>	<b>Department of Planning Administration, Accounting and Finance (Dept. PAAF)</b>	
1-1	❖ Component 1: Administration and Personnel	116 000
1-2	❖ Component 2: Budget Preparation and Management	93 000
1-3	❖ Component 3: Human Resource Building and Development	60 000
	<b>Total (7)</b>	<b>269 000</b>
<b>2</b>	<b>Department of National Park and Wildlife Sanctuary/habitat (Dept. NPWS)</b>	
2-1	❖ Component 1: Administrative management	36 000
2-2	❖ Component 2: Formulation letters/certifications, legal instruments related to Law on Natural Protected Area	495 000



No.	Components determined by Specialized Departments	Budget Estimation (USD\$)
2-3	❖ Component 3: Strategic Planning and Action Planning in each natural protected area and Effectiveness Assessment of the Natural Protected Area Management	370 000
2-4	❖ Component 4: Capacity building and Cooperation with partner organizations	456 000
2-5	❖ Component 5: Prepare the map, planting the area demarcation posts and the Data Management in the Natural Protected Area	500 000
2-6	❖ Component 6: Studies research and monitoring of animal and forest within the Natural Protected Area	50 000
2-7	❖ Component 7: Establishment of National Forest Park and National Marine Park	166 000
	<b>Total (8)</b>	<b>2 073 000</b>
<b>3</b>	<b>Department of Research and Development of Natural Protected Area Community (Dept. RDN PAC)</b>	
3-1	❖ Component 1: Identify the potential area and understand the livelihood of Natural Protected Area Community	82 500
3-2	❖ Component 2: Legal instruments supporting the management of Natural Protected Area Community	102 500
3-3	❖ Component 3: Strengthen the management of Natural Protected Area Community	227 500
3-4	❖ Component 4: Disseminate and Network of Natural Protected Area Community	75 000
	<b>Total (9)</b>	<b>487 500</b>
<b>4</b>	<b>Department of Wetlands and Coastal Zones (Dept. WCZ)</b>	
4-1	❖ Component 1: Management and Conservation of Wetlands, Watersheds and Coastal Zones	1 091 000
4-2	❖ Component 2: Management and Conservation of Multipurpose Zone and Biosphere Reservoir	2 607 000
4-3	❖ Component 3: Management and Conservation of Landscap Protected Area	1 190 000
4-4	❖ Component 4: Fomulation of Sub-decree on « Management and Conservation of Coastal Zone Natural Resource »	25 000
	<b>Total (10)</b>	<b>4 913 000</b>
<b>5</b>	<b>Department of International Conventions and Bio-diversity (Dept. ICB)</b>	
5-1	❖ Component 1: Adminitstration and Planning	16 000
5-2	❖ Component 2: Bio-diversity	980 000
5-3	❖ Component 3: Climate change	980 000
5-4	❖ Component 4: RAMSA Covention	275 000
5-5	❖ Component 5: Organization of coordination mechanism and information exchange	650 000
5-6	❖ Component 6: Agreement	195 000

No.	Components determined by Specialized Departments	Budget Estimation (USD\$)
5-7	❖ Component 7: Natural Legacy/heritage	220 000
	<b>Total (11)</b>	<b>3 316 000</b>
<b>III</b>	<b>General Department of Administration and Finance</b>	
<b>1</b>	<b>Department of Administration and General Affairs</b>	
1-1	❖ Component 1: Administrative work	209 000
1-2	❖ Component 2: General Affairs	89 000
	<b>Total (12)</b>	<b>298 000</b>
<b>2</b>	<b>Department of Accounting and Financial Affairs</b>	
2-1	❖ Component 1: Non Tax Revenue	40 000
2-2	❖ Component 2: Financial Management	80 000
	<b>Total (13)</b>	<b>120 000</b>
<b>3</b>	<b>Department of Personnel and Human Resource Development</b>	
3-1	❖ Component 1: Human Resource Development	68 000
3-2	❖ Component 2: Personnel Management	375 000
3-3	❖ Component 3: Labor salary	0
	<b>Total (14)</b>	<b>443 000</b>
<b>IV</b>	<b>General Inspectorate</b>	
4-1	❖ Component 1: Inspection	65 000
<b>V</b>	<b>Internal Audit Department</b>	
5-1	❖ Component 1: Audit	15 500
<b>VI</b>	<b>Gender Secretariat</b>	
6-1	❖ Component 1: Gender Work	135 000
	<b>Total Budget:</b>	<b>17 093 000</b>

### 3-7 Monitoring and Evaluation

The problems raised for the implementation and evaluation rest in what the successes achieved by the ministry in the environmental management are. If there is a great success, to what extent will it be? The Ministry still lacks sufficient measures for the proper estimation of the outcome of the implementation of its work plan. The proposed plans and the implementation without monitoring can become an ineffective practice which sometimes the plans are uncertain due to the lack of methods and measures for these works. What are the issues that we have to make an effort and to provide the maximum social and environmental interests for the sake of the activities in natural resources management? These are the concerns of how to raise the people well-being, to control, reduce and to abolish the environmental pollution with cost effectiveness of the national resources use.



Moreover, to positively respond to the issues above, we shall work towards the fruitful results according to the resources available, also relying on the technical assistance provided by the donor community as well as the direct assistance from the government and assistance from other donors. These issues require a clear response vision that has the better monitoring and evaluation of the reforms and the immediate rectification of the shortcomings. The Ministry of Environment can well implement and follow up two major tasks of its strategic plan: monitoring, evaluation by the respective specialized departments and then reports to the Department of Planning and Legal Affairs for consolidation of the report to be submitted to the ministerial leadership. Moreover, the Department of Planning and Legal Affairs shall conduct the monitoring and evaluation of the work of all specialized departments based on the monthly, quarterly, semester and annual plan of various departments.

### **3-8 Updating of Action Plan**

After the implementation of this Strategic Plan, various specialized departments shall have their respective progress report. Each annual report or any report shall have the description on specific evaluation by reflecting the general development related to the operational plan of environmental management and protection. The major achievements and each specific issue shall be detailed in the report and shall reflect each situation of the shortcomings to capture the attention of the Royal Government of Cambodia and/or also of the donor agencies.

Basic information and data on environment and various activities resulting from the implementation of this Strategic Plan shall be reported to the Ministry of Environment on a regular basis as whenever required.

# PART 4: ANNEX

## 4-1 Annex 1: Source of Human Resource of the Ministry of Environment

### 4-1-1 Number of Civil Servants of Ministry of Environment

Subordinating Units	A	C	D	E	EIA	ICD	GT	GAF	PDD	AD	CFD	GDI	G PA	APAFD	WCD	RCPAD	ICBD	NPD	PED	AUDIT	CAB	TOTAL
Number of Male Civil Servants	2	5	3	2	37	17	11	6	18	28	13	20	6	18	25	24	17	38	787	5	17	1231
Number of Female Civil Servants	8	9	2	1	6	6	2	0	8	6	10	2	1	8	2	3	1	1	68	0	1	155
Total:	3	6	3	3	43	23	13	6	26	34	23	22	7	26	27	27	18	39	855	5	18	1386

#### **\*Note:**

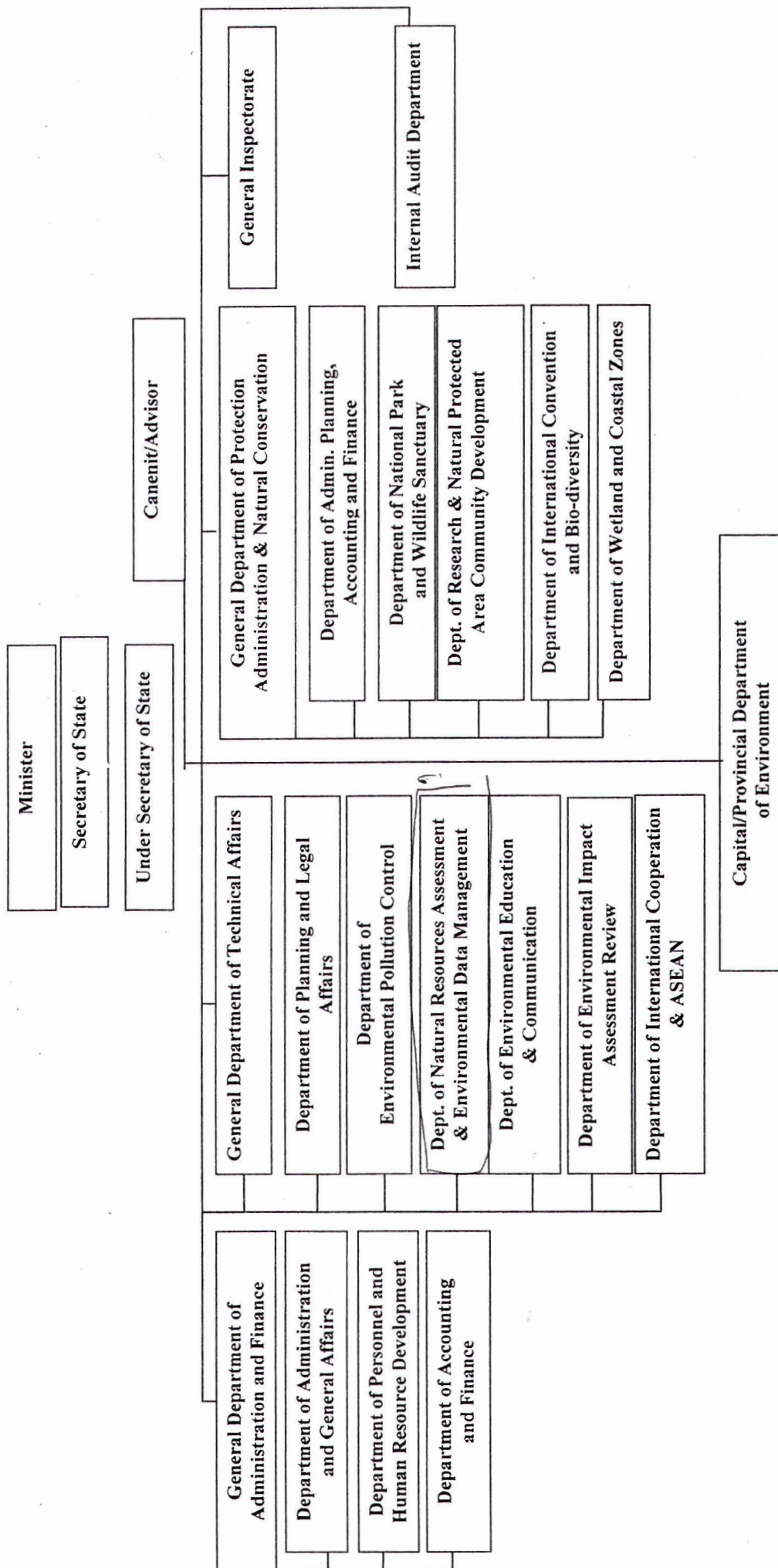
A:	Department of Planning and Legal Affairs
C:	Department of Environmental Pollution Control
D:	Department of Natural Resources Assessment and Environmental Data Management
E:	Department of Environmental Education, Information and Dissemination
EIA:	Department of Environmental Impact Assessment and Review
ICD:	Department of International Cooperation
GT:	General Department of Technique
GAF:	General Department of Administration and Finance
PDD:	Department of Personnel and Human Resource Development
A D:	Department of Administration and General Affairs
CFD:	Department of Accounting and Finance
GDI:	General Department of Inspection
G PA:	General Department of Natural Conservation and Protection
APAFD:	Department of Planning, Accounting and Finance
ICBD:	Department of International Convention and Bio-diversity
NPD:	Department of National Park and Wildlife Century
RCPAD:	Department of Research and Natural Protected Area Community Development
WCD:	Department of Wetlands and Coastal Zones
AUDIT:	Internal Audit Department
CAB:	Cabinet
PED:	Capital/provincial environmental Department



#### 4-1-2 Educational Qualification of the Civil Servants of Ministry of Environment

Educational Level	A	C	D	E	EIA	IC	GTD	GAF	PD	AF	CF	GDI	GPA	APAFD	WCD	RCPAD	ICBD	NPD	AUDIT	PED	CAB	TOTAL
PhD	0	0	0	0	0	0	1	0	0	0	0	1	1	0	1	0	1	0	0	1	3	9
M.A	4	6	4	2	7	9	6	5	1	0	1	2	3	3	3	7	5	6	1	4	1	80
B.A	17	19	7	20	19	6	2	1	14	3	9	12	3	16	6	4	4	11	4	63	13	253
M.D	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	1	10
Pharmacist	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Engineer	11	24	18	1	5	5	2	0	0	0	0	0	0	3	12	10	7	8	0	0	0	106
Technical Diploma	5	13	8	11	11	2	0	0	5	10	3	6	0	4	5	6	1	14	0	93	0	197
Technical Primary	0	0	0	0	0	1	0	0	4	7	4	1	0	0	0	0	0	0	0	12	0	29
XII std	0	0	0	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0		89	0	97
X std	0	0	0	0	0	0	0	0	1	4	2	0	0	0	0	0	0	0	0	243	0	249
Primary	0	0	0	1	0	0	0	0	1	5	1	0	0	0	0	0	0	0	0	346	0	354
Total:	37	65	37	35	43	23	13	6	26	34	23	22	7	26	27	27	18	39	5	855	18	1386

## 4-2 Annex 2: Leadership Structure of Ministry of Environment





### 4-3 Annex 3: International Projects collaborated with the Ministry of Environment

Name list of the 2009 Projects of Ministry of Environment

N	PIP	Project name	Responsible. Agency	Donors	Operational Years	Project cost	Priority
1	612	Tonle Sap Environmental management	MoE MAFF	ADB/GEF	2003-2008	19 360 000\$	Ongoing
2	1025	Enabling Activities for the Preparation of the Kingdom of Second National Communication to the UNFCCC	MoE	GEF/UNDP	2006-2008	405 000\$	Ongoing
3	1026	Capacity Building for National Biosafety Framework Implementation	MoE	UNEP/GEF	2006-2009	1 100 405\$	Ongoing
4	1405	Crossing boundaries: decentralization work of the Community federation in Koh Kong province, Cambodia.	MoE	Canada	2008-2009	98 000\$	Ongoing
5	1406	Terminal Phase Out Management Plan on Ozone Depleting	MoE	UNDP/UNEP	2008-2009	315 000	Ongoing
6	1407	Cambodia Environment and Protected Areas Management in Cambodia	MoE	WB	2008-2009	986 000\$	Ongoing
7	1471	Climate Change Capacity Strengthening and Awareness Raising Programme	MoE	Danida	2008-2010	380 000\$	Ongoing
<b>Total (Project on going)</b>						<b>22 644 255\$</b>	
1	63	Research Institute & Pollution	MoE		2008-2010	9 714 000\$	Pipeline-high priority
2	387	Capacity Building of Liquid Waste Management	MoE		2008-2010	1 350 000\$	Pipeline-high priority
3	390	Assistance in Strengthening Capacity of EIA	MoE		2008-2010	3 925 000\$	Pipeline-high priority
4	452	Training Course on Environmental Skills	MoE		2008-2010	528 000 \$	Pipeline-high priority
5	777	Biodiversity Conservation and Management	MoE		2008-2012	28 790 000\$	Pipeline-high priority
6	778	Waste Management	MoE		2008-2012	31 590 000\$	Pipeline-high priority
7	779	Strengthen Capacity of Official on E I A Process	MoE		2008-2012	5 547 000\$	Pipeline-high priority
8	964	Environmental Education for Primary School Curriculum	MoE		2008-2010	494 000\$	Pipeline-high priority
<b>Total (Pipeline high priority)</b>						<b>81 938 000\$</b>	