

2.4 Session 4: Details of Suggestions for Improvement of PEQMP-KPI Manual (2)

Session 4	Details of Suggestion for the Improvement of PEQMP-KPI Manual (2)
	<p>June 18, 2008 PEO of SKP & REO 8 and JICA Study Team The Study on Supporting System for Provincial Administrations on Natural Resources and Environmental Management</p>

Session 4	Suggestions for the Format of PEQMP-KPI
	<p>Chapter 2 Format of PEQMP-KPI</p> <p>2.1 Part 1: Introduction 2.2 Part 2: Situation and Issues of the Province 1) Basic Information of the Province 2) Situation of NREM of the Province 3) Analysis of Current Issues and Impacts from Socio-Economic Development 4) Priority Setting of Issues 5) Provincial Potential Analysis by SWOT Analysis 6) Preventive Measures and Solution for Issues</p>

Session 4	Suggestions for the Format of PEQMP-KPI
	<p>Chapter 2 Format of PEQMP-KPI</p> <p>2.3 Part 3 Detail of PEQMP-KPI 2.4 Part 4 Annex</p> <p>1) Detail of Important Projects of Province (List and Explanation of Project Priority No. 1-5) 2) Data or Detail related to the Action Plan Annex</p> <p>Part Summary of Suggestions</p> <p>3) Analysis of Current Issues and Impacts from Socio-economic Development</p> <ul style="list-style-type: none">• To move to 2) "Situation and Issues of NRE in the Province" <p>4) Priority Setting of Issues</p> <ul style="list-style-type: none">• To discuss the process of priority ranking among the issues raised in the previous sections (ideally together with the results of opinion survey among all stakeholders)• Specifically present the priority ranking of issues that should be solved by the target year of PEQMP-KPI (B.E. 2008-2011)

Summary of Suggestions for the Format of PEQMP-KPI (Cont'd)

Part	Summary of Suggestions
6) Preventive Measures and Solution for Issues	<ul style="list-style-type: none"> • To change the title of this section to “Selection of Priority Programs”. Due to the limitation of budget, the priority ranking of issues that must be implemented within 4 target years of PEQMP-KPI (B.E. 2008-2011) should be considered • Discussion of non-prioritized sectors should be put the Table in Section 7)

Summary of Suggestions for the Format of PEQMP-KPI (Cont'd)

Section	Suggestion for Improvement
Detail of PEQMP-KPI	Detail of PEQMP-KPI
1. Objective 2. Target 3. Strategy	1.Prepare detail for priority programs only
4. Work plans/Projects/Activities	2.Use PDM (Project Design Matrix)
5. Funding and Funding source	format as a tool to show the relationship of individual Priority Project plan (= Work plant Project/Activities) and how they be grouped under a larger Priority
6. The organization in charge/Resources to be used	Program in a sector. PDM format also allow to input more details indicated in PEQMP-KPI Manual
7. Output	
8. Indicator of the success of the project	
9. Mechanism for the Implementation	
10. Evaluation method	

Summary of Suggestions for the Format of PEQMP-KPI (Cont'd)

Section	Suggestion for Improvement
Detail of Important Projects of Province (List and Explain Project Priority no. 1-5)	<ul style="list-style-type: none"> • Detail of Priority Projects under Priority Programs to be implemented in target year (B.E. 2008-2011)

Part 2

3) Analysis of Current Issues and Impacts from Socio-economic Development => **Summary of Situation & Issues of NRE**

Example: Marine and Coastal Resource

1. Issue (1): Number of aquatic animals is decreasing
2. Area that issue occurs: Marine and coastal areas
3. Causes:
 - Inappropriate fishing methods i.e. inappropriate tools/ substances
 - Large amount of wastewater discharge

Part 2
**3) Analysis of Current Issues and Impacts from
Socio-economic Development => Summary of
Situation & Issues of NRE**

Example: Marine and Coastal Resource (Cont'd)

4. Impact:

- Decrease in the population of aquatic animals
- Damage to coastal farming

5. Measures taken:

- Release aquatic animals back to nature on special occasions
- Inform fish farmers to sell only mature fishes; warn fishermen on illegal fishing methods through TAO, local cable TV, Fishery network

Part 2
**3) Analysis of Current Issues and Impacts from
Socio-economic Development => Summary of
Situation & Issues of NRE**

Example: Marine and Coastal Resource (Cont'd)

6. Measures to be taken:

- Conduct research, development and guidance in proper fishing methods in order to prevent over-fishing
- Enforcement of law by LAs among illegal fishermen
- Support the development of voluntary network among fishermen and encourage them to be involved in marine and coastal resources conservation
- Educate local residents about the role and importance of mangrove forests in overall environmental conservation

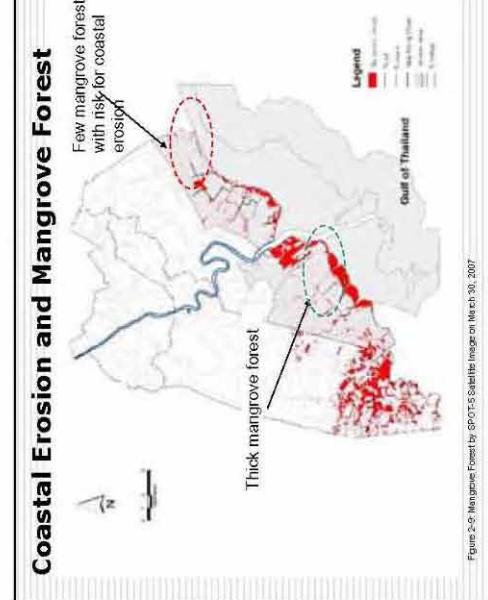
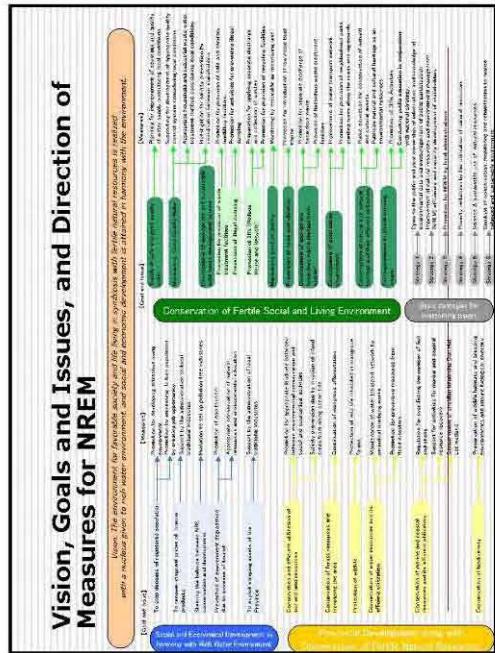


Figure 2-9: Mangrove Forest by SPOT5 Satellite Image on March 30, 2007

Summary of Situation & Issues of NRE (4): Vision, Goals and Issues, and Direction of Measures (1)

- It is impossible to implement all of the issues and measures discussed in the section above by the PEQMP target year of 2011.
- The ideal state of NREM that the Province should aspire to in the long term is expressed through Vision and Goals, and the Issues and Direction of Measures are sorted accordingly. This long term goal must reflect the opinions of as many stakeholders as possible.



Part 2 4) Priority Setting of Issues: Selection Process of Priority Issues and Programs

- PEQMP formulation committee meeting
- Opinion Survey to residents, business entities, local administrations, NGOs
- Selection of Priority Issues
- Priority Programs on Priority Issues which should be implemented by 2011

Target Group	Number
Local Administration	36 LA
Resident	64
Business Establishment	47
NGO	5 NGO

Part 2 4) Priority Setting of Issues: Problems of NREM

Target Group	Most Serious Problem	Reply Rate (%)	Second Most Serious Problem	Reply Rate (%)
LA	Marine/Coastal /Fishery Resources	38.9	Solid Waste Management	27.8
Resident	Marine/Coastal /Fishery Resources	25.0	Global Warming	23.4
Business Establishment	Marine/Coastal /Fishery Resources	25.5	Global Warming	17.0
NGO	Marine/Coastal /Fishery Resources	100.0	•Solid Waste Management •Water Quality	60.0 60.0

Part 2 4) Priority Setting of Issues: Reasons Selecting Most Serious Problems

Most Serious Problem	Specific issue	Reason for choice
Marine /Coastal /Fishery Resources	•Disorderred and illegal fishing methods •Decrease of fishery resources •Over harvesting of Razor clams •Coastal erosion •Too many tourists	•Extreme decrease of fishery resources and less income for fishermen •Extreme reduction of razor clam population •Loss of land •Deterioration of natural environment
Global Warming		
•Solid Waste Management •Water Quality		

Part 2 4) Priority Setting of Issues: Reasons Selecting Second Serious Problem

Second Serious Problem	Specific issue	Reason for choice
Solid Waste Management	•Improper treatment of huge amount of solid waste •Improper management of transfer station by private company •Dumping waste into waterways	•Occurrence of serious environmental problem •Obstacles to fishery
Global Warming	•Rise in temperature	•Adverse impact on agriculture •Decrease of fishery resources •Change of season •Influence on health
Water Quality	•Polluted water flowing from neighbouring provinces •Polluted water flowing from fishery ponds	•Adverse impact on agriculture •Decrease of fishery resources •Influence on health

Part 2 4) Priority Setting of Issues: Priority Examined in SWOT Analysis

- The PEQMP-KPI Formulation Committee was held at the SKP Conference Room on the **2 of July 2007** chaired by the Governor
- SWOT Analysis was conducted with **70** relevant participants directed by a moderator from **Mahidol University**
- In addition to SWOT Analysis, the priority among issues to be resolved for NREM was examined in the PEQMP-KPI Formulation Committee.

Part 2 4) Priority Setting of Issues: Priority Issues on Natural Resources in SKP discussed in SWOT Analysis Meeting	
Priority	
1.	Amount of aquatic animals is decreasing
2.	Deteriorated soil
3.	Water Monitor lizards eat villagers' pets / livestock
4.	Lack of water for domestic use/ consumption and agriculture
5.	Lands are sold to investors

Priority		Preventive Measures and/or Solution	
1.	Amount of aquatic animals is decreasing	<ul style="list-style-type: none"> *Build habitat for marine animals (artificial coral) *Release fresh water aquatic animals into natural water source *Publicize warnings to fisherman to stop illegal fishery *Encourage people and fisherman to participate in protection of aquatic environment *Create awareness of voluntary fishermen's network in the entire area *Reduce the use of chemical fertilizers *Promote the use of biological / organic fertilizers *Promote planting of native grass *Provide knowledge on soil conservation 	<ul style="list-style-type: none"> *Build habitat for marine animals (artificial coral) *Release fresh water aquatic animals into natural water source *Publicize warnings to fisherman to stop illegal fishery *Encourage people and fisherman to participate in protection of aquatic environment *Create awareness of voluntary fishermen's network in the entire area *Reduce the use of chemical fertilizers *Promote the use of biological / organic fertilizers *Promote planting of native grass *Provide knowledge on soil conservation
2.	Deteriorated soil	<ul style="list-style-type: none"> *Decide upon a responsible agency for catching and releasing water monitors in controlled areas *Propose to relevant organizations to reconsider law on water monitors as protected animal *Expand water supply to cover whole area *Repair / maintenance of water supply system *Dredge canals *Build saline water prevention block i.e. water control facility, collect opinion from all sectors in order to meet requirement of area and thus update properly 	<ul style="list-style-type: none"> *Decide upon a responsible agency for catching and releasing water monitors in controlled areas *Propose to relevant organizations to reconsider law on water monitors as protected animal *Expand water supply to cover whole area *Repair / maintenance of water supply system *Dredge canals *Build saline water prevention block i.e. water control facility, collect opinion from all sectors in order to meet requirement of area and thus update properly
3.	Water Monitor lizards eat villagers' pets / livestock	<ul style="list-style-type: none"> *Calm align to create awareness for love of hometown *Promote "sufficiency economy" philosophy 	<ul style="list-style-type: none"> *Calm align to create awareness for love of hometown *Promote "sufficiency economy" philosophy
4.	Lack of water for domestic use/ consumption and agriculture	<ul style="list-style-type: none"> *Build saline water prevention block i.e. water control facility, collect opinion from all sectors in order to meet requirement of area and thus update properly 	<ul style="list-style-type: none"> *Build saline water prevention block i.e. water control facility, collect opinion from all sectors in order to meet requirement of area and thus update properly
5.	Lands are sold to investors	<ul style="list-style-type: none"> *Promote "sufficiency economy" philosophy 	<ul style="list-style-type: none"> *Promote "sufficiency economy" philosophy

Part 2 4) Priority Setting of Issues: Priority Issues on Natural Environment in SKP discussed in SWOT Analysis Meeting	
Priority	
1.	Uncollected waste
2.	Wastewater
3.	No waste disposal site
4.	Household hazardous wastes
5.	Disorderly advertising billboards
6.	Noise level is above standard
7.	Infectious waste from hospital/clinics

Part 2 6) Preventive Measures and Solution for Problems => Selection of Priority Programs (to be implemented by 2011)	
<input type="checkbox"/>	Improvement in individual NREM sectors
<input type="checkbox"/>	1. Program for Conservation and Rehabilitation of Aquatic Resources
<input type="checkbox"/>	2. Program for Appropriate and Sustainable Solid Waste Management
<input type="checkbox"/>	3. Program for Safe and Quality Water Supply
<input type="checkbox"/>	4. Program for Water Quality Preservation in Public Water Bodies
<input type="checkbox"/>	Strengthening NREM administration capabilities in SKP
<input type="checkbox"/>	1. Program to Strengthen Linkage between Central Government Agencies, Provincial Administrations and LAS
<input type="checkbox"/>	2. Program to Strengthen NREM capacities of LAS

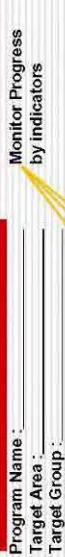
Part 2 4) Priority Setting of Issues: Examination of Priorities	
<input type="checkbox"/>	Since NREM encompasses a wide-ranging variety of sectors, it is quite difficult to decide the priority ranking among projects from differing sectors.
<input type="checkbox"/>	Individual NREM projects routinely require a huge sum of money to implement.
<input type="checkbox"/>	It becomes important to conduct sufficient survey, research, and planning activities and to exhaustively consider the feasibility of each project, in order to make each individual NREM project cost-effective.
<input type="checkbox"/>	Specifically, priority among projects should be determined only after extensive comparative analyses between sector master plans.
<input type="checkbox"/>	SKP lacks these basic master plans in various NREM sectors.

Part 3 Details of the PEQMP

1. Should provide details of the **priority programs** i.e. objectives, results, indicators etc.
2. Should use a **PDM (Project Design Matrix) format**
3. 1 PDM = 1 project

PDM Structure

Program Name : _____
Target Area : _____
Target Group : _____



Narrative Summary	Verification Indicators	Means of Verification	Important Assumptions
Overall Goal			
Program Purpose			
Outputs			
Individual Priority Projects	Responsible Agency	Supporting Agency	Input (Baht)

Part 3 Details of the PEQMP: Project Design Matrix (PDM)

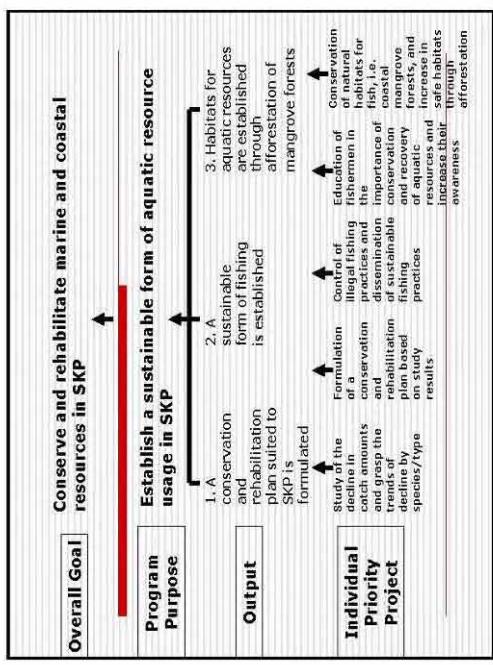
□ Advantage of PDM

- It is logically explained that, in order to achieve Program Purpose, what kind of outputs will be required.
- It is logically explained what kind of inputs (Individual Priority Projects) will be required in order to realize outputs.
- It is easy to monitor progress of each step

Part 3 Details of the PEQMP:

Example 1: Conservation and Rehabilitation of Aquatic Resources: Background

- Although the GPP for the whole Province is on the increase, the GPP for the fishery sector in 2005 (356 million Baht) has decreased to half of the 2001 figures (658 million Baht).
- All of four opinion survey target groups pointed out that the most serious problem of NREM in SKP is "Marine and coastal resources". The reasons why the respondents regarded this as the most serious problem are as follows:
 1. Extreme decrease of fishery resources and less income for fishermen
 2. Extreme reduction of razor clam population
 3. Loss of land
- Investigation revealed that there is a moderate amount of erosion, at a rate of 1 to 5 meters per year, at the northeast coast of the Gulf of Thailand

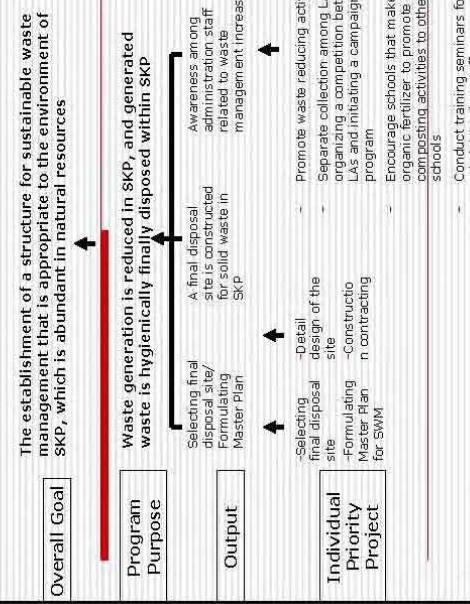
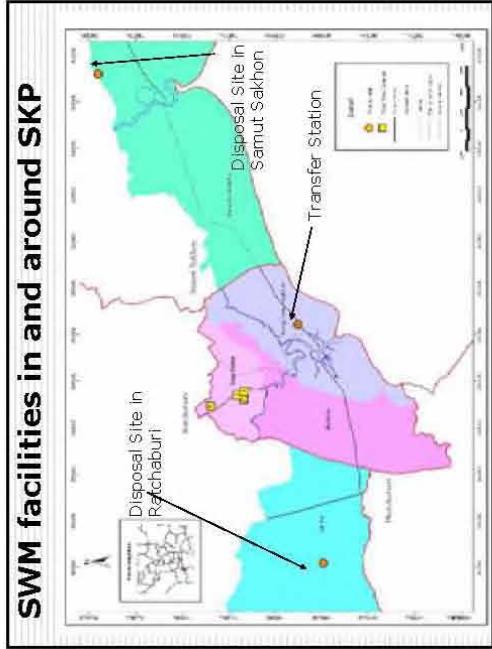


Part 3 Details of the PEQMP: Example 1: Individual Priority Projects, Responsible Agency, Supporting Agency, and Input	
Individual Priority Projects	
	Responsible Agency
1.1. Study of the decline in catch amounts and grasp the trends of decline by species/type, use of study as baseline data to suggest counter measures	PFO, MFDS7, FFKU, MSLRDC
1.2. Formulation of a conservation and rehabilitation plan based on study results	PFO, MFDS7, FFKU, MSLRDC
2.1. Control of illegal fishing practices and dissemination of sustainable fishing practices	PFO, LAS
2.2. Education of fishermen in the importance of conservation and recovery of aquatic resources and increase their awareness	PFO, LAS, MFDS
3. Conservation of natural habitats for fish, i.e. coastal mangrove forests, and increase in safe habitats through afforestation	MFDS7, PFO, LAS

Part 3 Details of the PEQMP: Example 2: Appropriate and Sustainable SWM in SKP: Background	
<input type="checkbox"/> There is no final disposal site located within SKP. All collected wastes from a transfer station are transported to disposal sites in neighboring Ratchaburi and Samut Sakhon Provinces as shown in the next screen.	
<input type="checkbox"/> If the neighboring Provinces refuse to accept the waste collected in SKP, SKP could end up with many waste heaps in every urban area. This kind of "Waste War" has occurred in many cities in the world, including Tokyo, Japan.	

Part 3 Details of the PEQMP: Example 1: Monitoring Progress of Work	
Outputs	Verification Indicator
1. A conservation and rehabilitation plan suited to SKP is formulated	1.1 Fishery statistics by species/type and location 1.2 Detailed plan for conservation and rehabilitation
2. A sustainable form of fishing is established	2.1 Number of warnings and arrests over illegal fishing practices 2.2 Number of workshops and other educational events, number of participants of the same
3. Habitats for aquatic resources are established through afforestation of mangrove forests	3. Afforestation area statistics and total area statistics of mangrove forest

Progress of the work will be monitored by verification indicators.



Part 3 Details of the PEQMP:
Example 2: Individual Priority projects, Responsible Agency and Supporting Agency

Individual Priority Projects	Responsible Agency	Supporting Agency
1-1. Site Selection for Final Disposal Site	Orbiorj	Provincial Committee, Pollution Control Department
1-2. Formulation of Sustainable SWM Master Plan in Provincial Level		
1-3. Detailed Design study for the final disposal site		
1-4. Selection of construction contractor through tender process, and construction of final disposal site		

Part 3 Details of the PEQMP:
Example 2: Individual Priority Projects, Responsible Agency and Supporting Agency

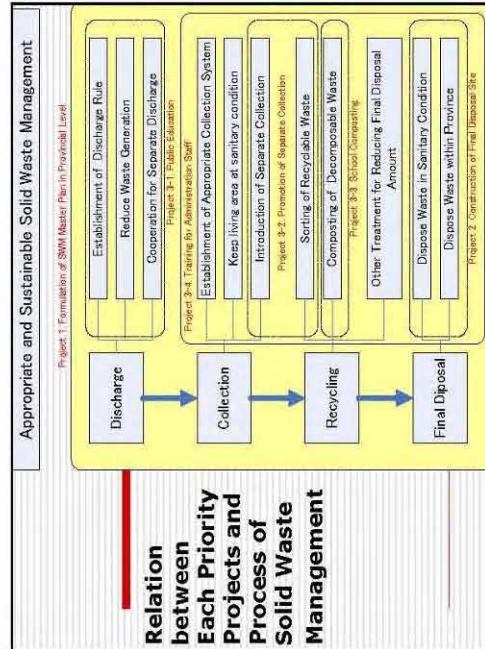
Individual Priority Projects	Responsible Agency	Supporting Agency
2. Student/ public education in order to reduce waste generation rate.	LA	PEO, PLAO, Schools
3. Promotion of separate collection among LAs by organizing a competition between LAs and initiating a campaign in program	LA	PEO, REO, DEQP
4. Dissemination of school composting among schools that do not currently implement such a program	Schools	PEO, REO, LA
5. Training seminars for administration staff on appropriate and environmentally friendly waste management	PEO	PEO, PCD, DEQP

E) Part 3 Details of the PEQMP (14): Example (2) Monitoring Progress of Work

Outputs	Verification Indicator
1. Having final disposal site	1. Capacity of new final disposal
2. Volume of waste is decreased	2. Waste generation rate per capita
3. More waste is separated and collected in LAs	3. Volume of separate discharge and collection, number of LAs and collection, number of schools which implemented school composting
4. More schools hold composting activities and volume of waste is decreased	4. Number of schools which implemented school composting
5. An awareness on appropriate SWM is raised.	5. Number of seminars for administration staff

Progress of the work will be monitored by verification indicators.

Part 4 Details of Important Projects => Details of Priority Projects	
<input type="checkbox"/>	Example: Program for Appropriate and Sustainable Solid Waste Management in SKP Priority Projects
<input type="checkbox"/>	Formulation of SWM master plan in Provincial level
<input type="checkbox"/>	Construction of Final Disposal Site
<input type="checkbox"/>	Raising awareness on an appropriate SWM



Sample of Priority Project Detail – 1/7

- 1. Program Name**
 - Program for appropriate and sustainable SWM in SKP
- 2. Project Name**
 - Formulation of SWM master plan in Provincial level
- 3. Sector in NRE**
 - Solid Waste

Sample of Project Detail – 2/7

- 4. Responsible Agency**
 - Governor in collaboration with all LAs
- 5. Supporting Agency**
 - Provincial Committee (PC), Pollution Control Department (PCD)
- 6. Monitoring and Evaluation Agency**
 - PEO in association with all stakeholders

Sample of Project Detail – 3/7

7. Background of the Project

- National Solid Waste Management plan was drafted by Pollution Control Department of MNRE in June 2003. This plan is a master plan at national level; and national policy and strategy are specified.
- SKP does not have Master Plan on Solid Waste Management. It should therefore, formulate a Master plan that covers not only a final disposal but also other aspects such as improvement of waste collection, reduction of waste generation, promotion of recycling and so on.

Sample of Project Detail – 4/7

8. Objective of the Project

- Sustainable SWM master plan in provincial level is formulated
 - Site for final disposal site is selected
- 9. Objectively Verifiable Indicators**
 - Contents of SWM master plan (TOR)
 - Monitoring and Evaluation Agency

Sample of Project Detail – 5/7

10. Main Components of the Project

- Formulation of sustainable SWM master plan of SKP (include priority project such as construction of final disposal site)
- Site selection of final disposal site
 - Formation of final disposal site selection committee
 - Formulation of selection and exclusion criteria
 - Selection of candidate locations
 - Public hearings and getting agreement from nearby residents.
 - Selection of final disposal site

Sample of Project Detail – 6/7

11. Implementation Schedule

Component	Implementation
Site Selection of final disposal site	2008-2009
Formulation of SWM master plan	2008-2009

12. Budgetary Plan

Component	Budget	Source
Site Selection of final disposal site	1,000,000	Orborjor
Formulation of SWM master plan	3,000,000	Orborjor

Sample of Project Detail – 7/7

13. Justification of the Project

- Beneficiary: Whole population in SKP
- Relation with upper plan :To be confirmed

Thank you very much