National Activity – Egypt

Strategic Framework for the Solid Waste Recycling in Egypt

I. Background

1. The European Commission/Euro-Mediterranean Partnership provided the World Bank with a grant under the Short and Medium Term Priority Environmental Action Program (EC-SMAP) to implement a 3 year activity for a Regional Solid Waste Management Project in METAP Mashreq and Maghreb Countries (RSWMP).

2. The overall objective of the Regional Solid Waste Management Project is to promote the adoption of sustainable integrated solid waste management (ISWM) in the selected Mediterranean countries. More specifically, the Project aims to (i) provide the necessary tools to the beneficiary countries for designing, developing and implementing the main elements of integrated solid waste management; and (ii) promote exchange of information and experiences within the Region in the field of solid waste management.

3. The Project will consist of the development of regional guidelines and modules and their application at the beneficiary country level and will also include the application of these guidelines/modules through national activities using the approach of “learning by doing”. Each national activity will consist of (a) in-country delivery of elements prepared at the regional level; and (b) the preparation of case studies in response to national critical priority needs (e.g. the preparation of action plans, development of databases, and assessment of some key sectors such as recycling and recovery activities, hospital waste management, etc).

3bis. The World Bank is the executing agency of this project. The Tunisian Environmental Protection Agency (ANPE) was selected to be the key partner in the management and coordination of the project through the establishment of Regional Management Group (RMG) and in close coordination with the eight beneficiary countries. An international consortium of GTZ/ERM/GKW was contracted by the World Bank to implement this regional component and to provide assistance to the national consulting firms in implementing the above national component.

4. Within this context, the Egyptian Ministry of State for Environmental Affairs has requested the assistance of the World Bank to carry out a comprehensive study for the solid waste recycling sector in Egypt with a special focus on plastics recycling.

5. The present Terms of Reference (TOR) details the required consulting services in order to carry out the Egyptian national activity.
II. Objective

6. The objective of this assignment is to design a strategic framework for the development of the solid waste recycling sector in Egypt, with a particular focus and action plan for plastic recycling.

III. Scope of Work

7. The scope of work to be performed by a qualified national consulting firm(s) (the Consultant) will include, but is not limited to, the following tasks:

Task 1: Compile Background Information

8. Under this task, the Consultant will particularly:

- Review available documents relevant to the waste recycling sector in Egypt including laws, regulations, and permits requirements.
- Gather basic data and information concerning recyclables waste activities in Egypt (including plastics, paper, paperboard, glass and metals) and make projections for the future (Years 2008 and 2013).
- Compile information about stakeholders and key institutional players in the waste recycling sector in the country.

Task 2: Analysis of Options for Enhanced Recycling

9. This task will mainly include:

- Analyze the various feasible options for developing the recycling initiatives in Egypt, including the option of developing the activities/business of the existing Zabbaleen communities with emphasis on the private sector and public private partnership roles. Analysis will be undertaken with respect to the legal and institutional, economic, social, financial, technology and capacity criteria supplemented by additional criteria that should be identified through stakeholder consultation; and
- Determine the best option(s) for enhancing recycling activities.


10. Within this task, the Consultant will undertake the following:

- Identify the overall systems through which enhanced recycling will take place for the major recyclable materials in the waste stream;
- Outline the role and responsibilities of the different entities including EEAA, other government entities, waste management contractors, existing collectors, re-processors of recyclable material, manufacturers, public, and NGO’s;
• Determine the actions needed from different entities for implementing the selected system(s) or option(s);
• Estimate the timing associated with the implementation of the strategy;
• Delineate all investment requirements, costs and revenues/savings associated with the implementation of the national enhanced recycling strategy;
• Conduct periodic meetings/workshops with key stakeholders to get their approval on the enhanced recycling strategy; and
• Develop the steps for the implementation of the strategy.

Task 4: Development of Implementation Plan to Develop Plastic Recycling at a Pilot Scale (with a particular focus on plastic bags)

11. Under this task, the consultants will undertake the following:

• Identify the type(s) of plastics, the geographic area, and the generators of plastics waste to be targeted by the pilot scale initiative;
• Design and propose mechanisms for capturing the maximum quantities of targeted plastics from the waste stream;
• Assess the quality standards for recovered and recycled plastics;
• Analyze the key market characteristics for recovered plastics and plastic products;
• Analyze the current and projected demand for the plastics product, and projected market share;
• Determine the capacity enhancement needs of existing plastics recyclers, particularly for maximizing the quality of the recycled plastics product;
• Identify and propose realistic and implementable policy, economic and financial incentives to recycle plastic wastes;
• Establish a framework for extending the pilot project activity;
• Develop an implementation plan including roles and responsibilities of different actors, timing and budget required;
• Arrange for consultation meetings to ensure that all stakeholders agree on each of the activities taken for the implementation of the pilot project; and

Task 5: Enabling Activities for the Plastic Recycling at a Pilot Scale (with a particular focus on plastic bags)

12. Under this task, the Consultant will undertake the following:

• Identify the enabling activities for the plastic recycling at a pilot scale that will ensure the effectiveness and success of this initiative.
• In full consultation with the EEAA and the major stakeholders, select the enabling activities.
• Develop an approach for monitoring and evaluating the implementation of the pilot scale activity
• Identify the environmental and economic opportunities to extend such initiative.
Task 6: Assistance in selecting and applying one of the Regional SWM Guidelines

13. As introduced in section I, this national activity is part of the Regional SWM in METAP and Mashreq countries (national component). In this task, the Consultant shall participate into the national workshop to be organized and financed by the IC in order to introduce and explain the four regional guidelines. Subsequently to this workshop tentatively scheduled for the second quarter of Year 2004 in Cairo, the Consultant will provide on the job training for duration of four weeks for the application of one or two guidelines that will be selected for application in Egypt. For this subtask, the Consultant will receive technical assistance from the IC of a total 1.5 month at no cost for the present contract to ensure the effective application of the selected guidelines at country level.

IV. Stakeholders Consultation

14. For the execution of the above tasks and activities, the Consultant will use a participatory and consultative approach. To this end, they will organize a number of stakeholder consultations events. At least, one at the outset of the initiative, one for strategic framework for enhanced recycling and one for the implementation plan to develop plastic recycling at a pilot scale. Other consultation events/workshops should be prepared as needed. More specifically, the Consultant will: (i) conduct structured meeting with the relevant stakeholders including EEAA, manufacturers, and waste management facility operators, importers of products and packaging that may become waste, participants in the existing recycling sector, NGOs, and expected purchasers of recyclables; (ii) discuss with stakeholders the key market characteristics of solid waste recycling such as growth trends and development potentials, market segmentation, geographical concentrations and distributions, and market opportunities; (iii) discuss with stakeholders options for developing recycling initiatives; and (iv) in consultation with stakeholders identify opportunities and constraints associated with the proposed options.

V. Supervision, Schedule and Outputs

15. The Consultant will be contracted by the World Bank. The Consultant is expected to coordinate its works the RMG and the Egyptian Ministry of Tate for Environmental Affairs (MoE). Direct contacts will also be established between the Consultant and the International Consortium to ensure coordination and synergy among the national and regional components of the Project. At country level, an advisory group consisting of members from all concerned parties will be established in consultation with the Egyptian MoE to oversee and facilitate the works of the Consultant. This group will be chaired by the MoE.

16. The total duration of the assignment is estimated to 12 months including time review of reports and products of the Consultant. The Consultant shall begin work no
later than one month after the date of effectiveness of the contract and will produce the following reports:

- An Inception Report will be submitted two months after the beginning of the study and will particularly cover the activities specified in Tasks 1 and 2 as well as the detailed approach for implementing the assignment and a detailed work plan.
- A draft strategy for the development of the recycling sector as specified in task 3 will be submitted four months after the beginning of the study. The strategy will be produced in Arabic and English.
- An Interim Report covering tasks 4 and 5 will be submitted six months after the beginning of the study.
- A draft Report on the application of the selected guidelines as specified in Task 6. This report will be produced in Arabic and English and will be submitted 8 months after the beginning of the study.
- A final report summarizing the works of the consultant, its findings, problems and constraints, recommendations, etc. It will be submitted ten months after the beginning of the study.
- In addition, the Consultant will submit six months after the beginning of the study a mid term progress report highlighting the progress made in implementing the assignment as well as relevant issues and achievements.

18. All documents/reports will be issued in draft. The consultants will receive comments on the drafts from the World Bank within one month and will have one month to issue the final revised version based on all the comments received. All documents/reports will be issued in English unless otherwise specified. Both draft and final versions will be produced in 6 copies (three copies to the Bank, one copy to the RMG and two copies to the Egyptian MoE) and will be delivered on both paper and as electronic documents.

VI. Staffing Requirements

19. The consultants should establish a team of specialists with excellent writing skills. The team should include a project manager with team leader skills and experts with relevant experience and technical competence in solid waste management and waste recycling.

20. The consultant is free to propose and justify the range of disciplines to be included in the project team. However, the team will include at least the following:

- A team Leader
- A Waste Recycling Expert
- A SWM Expert
- A Social Expert.

All key personnel should have at least a master degree in the relevant fields with five years of direct relevant experience in the corresponding tasks assigned to them.
Team Leader should have at least ten years of relevant experience in the management of solid waste projects.

21. Curriculum vitae(s) of the key consultant(s) and specialist(s) should be included as part of the proposal with special reference to knowledge of issues related to the project. CVs should be a maximum of 4 pages focusing on skills, education and direct relevant experience, particularly in SWM. All staff is to be independent and free from conflict of interests. The consultants should provide a detailed staff inputs table in their offer.

22. The Consultant may associate with national or international firms or individual experts to enhance their qualifications. The nationalities of all the proposed personnel must however be from either the EU member states or the beneficiaries MEDA countries and listed in the following homepage: <http://europa.eu.int/comm/external_relations/ euromed/bd.htm>.

23. Any firm and individual participating in the METAP Regional Solid Waste Management Project as part of the International Consortium GTZ-ERM-GKW (IC) or under contract to that IC directly or indirectly is deemed to be in a conflict of interest position with respect to bidding on this assignment and is therefore not eligible to bid or to be included in a bid on this assignment.

VI. Payments Conditions

25. The Consultants’ total remuneration will be a fixed lump sum, as determined by the Consultant’s contract. Payments will be made as follows:

- First Payment 20% as advance payment upon entry into effect of the contract.
- Second Payment of 30% after submission and approval by the World Bank of the draft strategy for the development of the recycling sector
- Third Payment of 30% after submission and approval by the World Bank of the A draft Report on the application of the selected guidelines
- Fourth and final payment of 20% after submission and approval by the World Bank of the Final Report.