付　属　資　料

１．要請書

２．R/D

３．M/M（含む PDM 案、PO 案）

４．PCM ワークショップ概要

５．質問票・回答

６．事前評価表

APPLICATION FORM FOR JAPAN'S TECHNICAL COOPERATION

<For 2006 Fiscal Year of Japan>

1. **Date of Entry** : Day 12 Month 07 Year 2005
2. **Applicant** : The Government of Peoples' Republic of Bangladesh.
3. **Project Title** : Solid Waste Management in Dhaka City
4. **Implementing Agency** : Dhaka City Corporation (DCC)

Address : Waste Management Division,
Level-13, Nagar Bhaban, Dhaka-1000, Bangladesh.

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5. **Background of the Project**

(Current conditions of the sector, Government's development policy for the sector, issues and problems to be solved, existing development activities in the sector, etc.)

JICA dispatched the Study Team for "the Study on Solid Waste Management in Dhaka City" to DCC in December 2003 in order to formulate a master plan on a long-term perspective (the target year 2015). The master plan, called "the Clean Dhaka Master Plan" was officially submitted in April 2005, then JICA commenced Phase III activities to follow-up and monitor the implementation of the Clean Dhaka Master Plan from April 2005. The Phase III program shall be completed in March 2006. Based on recommendations in the Clean Dhaka Master Plan, or in the course of the Study, DCC has striven for reforming its administrative system in waste management in three areas of concerns:

First, DCC, in close collaboration with JICA Study Team, initiated a ward-based community solid waste management system in two wards as a pilot project, encouraging people's participation in uplifting the sanitary conditions at communities. This pilot project for social mobilization yielded a lot of lessons and implications for further improvement at the community level which should be functionally incorporated into an entire solid waste management system of DCC.

Second, DCC has organized Waste Management Division (WMD) under Conservancy Department to perform inter-departmental coordination among related departments to properly drive the materialization of the Master Plan. Moreover, as a high-leveled advisory function, DCC established Waste Management Committee (WMC) attached to Chief Executive Officer (CEO). WMC has been now functioning to scrutinize vital inter-departmental issues related to DCC's policy and directions for the solid waste management.

Third, DCC has succeeded in getting access to Japan Debt Cancellation Fund (JDCF) to acquire the fund for environmental improvement of the existing Matuail final disposal site, which is expected to encourage the DCC counterpart team to motivate further improvement of the currently constrained situation in solid waste management.

Nevertheless, it is recognized that further capacity development of DCC for the solid waste management is highly required to properly drive initiatives by the Study Team towards the achievement of the Master Plan.

6. Outline of the Project

(1) Overall Goal

(Development effect expected as a result of achievement of the "Project Purpose" in several years after the end of the project period)

Sanitary conditions in Dhaka City will be improved, thereby promoting people's health and quality of life.

(2) Project Purpose

(Objective expected to be achieved by the end of the project period. Elaborate with quantitative indicators if possible)

To uplift the overall capacity of solid waste management of Dhaka City Corporation, along with enhancing social mobilization

(3) Outputs

(Objectives to be realized by the "Project Activities" in order to achieve the "Project Purpose")

To improve the three areas of capacity related to the solid waste management in Dhaka City as follows:

1) Social capacity through expanding a ward-based participatory solid waste management system;

2) Technical and engineering capacity for management and development of Final Disposal Sites with a sanitary landfill method;
3) Institutional and administrative capability of solid waste collection and transportation of DCC.

(4) Project Activities

(Specific actions intended to produce each "Output" of the project by effective use of the "Input")

1) To enhance the **"social capacity"** through broadening a ward-based participatory solid waste management system:
   - Training DCC staffs of Waste Management Division as well as zone offices for the Ward-based Solid Waste Management System which was initiated at the process of formulating the Master Plan and developed at Phase III;
   - Supporting DCC to institutionalize the ward-based solid waste management mechanism in the mayor's order or the DCC ordinance;
   - Supporting an IEC program of Ward-based Solid Waste Management System;
   - Supporting "Ward Solid Waste Management Committees" for their planning, monitoring and problem-solving capacities; and
   - Supporting NGOs and CBOs for organizing, starting up and managing primary collection service providers.

2) To improve the **"technical and engineering capacity"** for management and development of Final Disposal Sites with a sanitary landfill method;
   - Preparing an operation manual and training programs for sanitary landfill technology suitable for the locality;
   - Training DCC staffs of Waste Management Division and relevant departments responsible for the final disposal site management (Matuail);
   - Supporting DCC to set up an environmental management system for the disposal sites; and
   - Supporting DCC to develop a new sanitary landfill site (Amin Bazar) and providing DCC with technical advice on environmental closure of existing open dump sites.
   - Supporting DCC to prepare guidelines and implementation Programs/Projects on improvement of drainage for Waste management & environmental issues.

3) To improve **"institutional and administrative capability"** of solid waste collection and transportation of DCC.
   - Training for capacity development of DCC workers engaged in collection and

transportation, increasing awareness of DCC staff for solid waste management;

- Improving operation and management for secondary collection and transportation with a special emphasis on "sanitary improvement";
- Supporting DCC to Improve the secondary collection and transport system, rearranging DCC containers and expanding a scheduled collection system;
- Supporting DCC to improve the maintenance system of transport vehicles and equipment;
- Supporting DCC to improve cleaning of the drainage system; and
- Uplifting administrative capacities of Waste Management Division in terms of coordination, planning and budgeting for the implementation of projects/programs.

(5) Input from the Recipient Government

(Counterpart personnel (identify the name and position of the Project manager), support staff, office space, running expenses, vehicles, equipment, etc.)

1) Counterpart Organization and Personnel

- To deploy a necessary number of permanent staffs to Waste Management Division as the counterpart entity;
- To coordinate relevant governmental and non-governmental organizations in the course of the Project;
- To prepare the counterpart budget for Waste Management Division to perform its duties and tasks related to the Project.

2) Access to Data and Information

- To provide the Team with available data, maps and information necessary for the execution of the Project

3) Provision of Official Conveniences to the JICA Team

- To ensure the necessary entry permits for the Team to conduct field surveys in Bangladesh and exempt them from consular fees;
- To exempt members of the Team from taxes and duties, and any other charges on the equipment, machinery and other materials brought into and out of Bangladesh for the conduct of the Project;
- To exempt members of the Team from Bangladesh income tax on their official emoluments in respect of their period of assignment in Bangladesh in connection with the conduct of the Project;

- To provide necessary facilities to the Team for remittance as well as utilization of the funds introduced into Bangladesh from Japan in connection with the implementation of the Project;
- To secure permission for the Team to enter into private properties or restricted areas if is necessary for the implementation of the Project;
- To provide the Team with medical services when needed but the expenses will be chargeable to the members of the Team;
- To make arrangements for the Team to take back to Japan the data, maps and materials connected with the Project, subject to the approval of the government of Bangladesh, in order to perform domestic tasks if are necessary;
- To provide the Team with suitable office space in Dhaka City Corporation; and
- Other matters to be agreed upon with both Bangladesh and Japanese governments.

4) Provision of Proper Advice

- Inform the Team of existing risks in the study area and measures deemed necessary to secure the safety.

(6) Input from the Japanese Government

(Number and qualification of Japanese experts, training (in Japan and in-country) courses, seminars and workshops, equipment, etc.)

1) JICA will dispatch the Team with a total of 8 experts, covering the following areas during the period of the Project:
   - Team leader (1);
   - Social capacity development (2 experts);
   - Technical and engineering capacity development (3 experts for final disposal site management and equipment maintenance, drainage system improvement for Solid Waste Management);
   - Solid waste management administration and management (2 experts).

   The Team consists of long-term or short-term experts for each area of capacity development. Short-term experts will be assigned depending upon needs to be identified in the course of the Project.

2) The Team shall pursue technology transfer to permanent staffs of Waste Management Division and relevant DCC staffs through close collaboration with the counterpart personnel.

3) JICA will prepare the budget necessary for workshops, seminars and training courses for capacity development which will be designed along with the afore-mentioned project activities.

4) JICA will provide with audio-visual equipment necessary for capacity building activities as well as IEC activities.

7. Implementation Schedule

Month 9 Year 2006 Month 8 Year 2009 3 years

8. Implementing Agency

(Budget, staffing, etc.)

Dhaka City Corporation:

- Number of DCC staff: 12,378
- Number of DCC staff for waste management: 7,000
- Budget: Tk 12470 million (US$ 201 million)

(1 USD = 62 BDT)

9. Related Activities

(Activities in the sector by the recipient government, other donors and NGOs)

DCC has a legal responsibility of solid waste management in Dhaka City including waste collection, transportation and disposal. While, some of NGOs are carrying out recycling activities and medical waste collection/disposal. DCC has the responsibility of Drainage system improvement and drainage cleanings.

10. *Gender Consideration*

(Any relevant information of the project from gender perspective.)

Women usually manage waste discharge in household affairs, therefore women's participation is essential to improve the solid waste management in the city. However, basically there is a difficulty in involving women in decision-making process at community/ward level, although women's social status is kept higher in some areas of Dhaka City. Proper strategies to encourage women's participation in the ward-based solid waste management system should be specially considered.

11. Environmental and Social Considerations

(Please fill in the attached screening format.)

Since the Project includes technical and engineering supports/advice for the improvement of final disposal sites, the attached screening format is describing the environmental conditions on the Matuail Final Disposal Site. However, the improvement work itself shall be executed by DCC as a different project from this technical cooperation. DCC has undertaken some projects on drainage improvement.

12. Beneficiaries

(Population for which positive changes are intended directly and indirectly by implementing the project and gender disaggregated data, if available)

Beneficiaries are 10 million residents of Dhaka City.

13. Security Conditions

No imminent security issues are observed in Dhaka City, however, attentions are needed to pay at some part of the old Dhaka areas and when political demonstrations take place.

14. Others

RECORD OF DISCUSSIONS BETWEEN JAPAN INTERNATIONAL COOPERATION AGENCY AND AUTHORITIES CONCERNED OF THE PEOPLE'S REPUBLIC OF BANGLADESH AND DHAKA CITY CORPORATION ON PROJECT FOR STRENGTHENING OF SOLID WASTE MANAGEMENT IN DHAKA CITY

Japan International Cooperation Agency (hereinafter referred to as "JICA") through its Resident Representative of Dhaka Office, exchanged views and had a series of discussions with the authorities concerned of the Government for the successful implementation of the above-mentioned project.

As a result of the discussions, and in accordance with the provisions of the Agreement on Technical Cooperation between the Government of Japan and the Government of Bangladesh, signed in Dhaka on 8th December, 2002 (hereinafter referred to as "the Agreement"), JICA and Bangladesh authorities concerned agreed on the matters referred to in the document attached hereto.

Dhaka, December 11, 2006

新井明男

Mr. Akio Arai
Resident Representative
Japan International Cooperation Agency
Bangladesh Office

Mr. Emdadul Haque
Deputy Secretary
Economic Relations Division
Ministry of Finance

Witnessed by:

Mr. Sohel Faruquee
Chief Conservancy Officer
Dhaka City Corporation

Witnessed by:

11.12.06

Mr. Md. Musleh Uddin
Senior Assistant Chief
Planning- 2
Local Government Division
Ministry of Local Government,
Rural Development and Co-operatives

THE ATTACHED DOCUMENTS

I. COOPERATION BETWEEN JICA AND THE GOVERNMENT OF BANGLADESH.

1. The Government of the People's Republic of Bangladesh will implement "Project for Strengthening of Solid Waste Management in Dhaka City" (hereinafter referred to as "the Project") in cooperation with JICA.

2. The Project will be implemented in accordance with the Project Framework which is given in Annex I.

II. MEASURES TO BE TAKEN BY JICA

In accordance with the laws and regulations in force in Japan and the provisions of Article of the Agreement, JICA, as the executing agency for technical cooperation by the Government of JAPAN, will take, at its own expense, the following measures according to the normal procedures of its technical cooperation scheme.

1. DISPATCH OF JAPANESE EXPERTS

JICA will provide the services of the Japanese experts as listed in Annex II. The provision of Article V of the Agreement will be applied to the above-mentioned experts.

2. PROVISION OF MACHINERY AND EQUIPMENT

JICA will provide such machinery, equipment and other materials (hereinafter referred to as "the Equipment") necessary for the implementation of the Project as listed in Annex III. The provision of Article IV of the Agreement will be applied to the Equipment.

3. TRAINING OF BANGLADESH PERSONNEL

JICA will receive the Bangladesh personnel connected with the Project for technical training in other relevant countries, if necessary.

III. MEASURES TO BE TAKEN BY THE GOVERNMENT OF BANGLADESH

1. The Government of Bangladesh will take necessary measures to ensure that the self-reliant operation of the Project will be sustained during and after the period of Japanese Technical Cooperation, through full and active involvement in the Project by all related authorities, beneficiary groups and institutions.

2. The Government of Bangladesh will ensure that the technologies and knowledge acquired by the Bangladesh nationals as a result of the Japanese technical cooperation will contribute to the economic and social development of Bangladesh.

3. In accordance with the provision of Article VI of the Agreement, the Government of Bangladesh will grant in Bangladesh privileges, exemptions and benefits to the Japanese Experts referred to in II-1 above and their families.

4. In accordance with the provisions of Article IX of the Agreement, the Government of Bangladesh will take the measures necessary to receive and use the Equipment provided by JICA under II-2 above and equipment, machinery materials carried in by the Japanese experts referred to in II-1 above.

5. The Government of Bangladesh will take necessary measures to ensure that the knowledge and experience acquired by the Bangladesh personnel from technical training will be utilized effectively in the implementation of the Project.

6. In accordance with the provision of Article V of the Agreement, the Government of Bangladesh will provide the services of Bangladesh counterpart personnel and administrative personnel as listed in Annex IV.

7. In accordance with the provision of Article V of the Agreement, the Government of Bangladesh will provide the working spaces and facilities as listed in Annex V.

8. In accordance with the laws and regulations in force in Bangladesh, the Government of Bangladesh will take necessary measures to supply or replace at its own expense machinery, equipment, instruments, vehicles, tools, spare parts and any other

materials necessary for the implementation of the Project other than the Equipment provided by JICA under II-2 above.

9. In accordance with the laws and regulations in force in Bangladesh, the Government of Bangladesh will take necessary measures to meet the running expenses necessary for the implementation of the Project.

IV. ADMINSITRATION OF THE PROJECT

1. Chief Executive Officer, DCC, as the Project Chief, will bear overall responsibilities for the administration, coordination and implementation of the Project.
2. The Project Manager will be responsible for the managerial and technical matters of the Project. The Project Manager should have strong leadership, sufficient management and coordination capacity, and technical background. The authority of the Project Manager needs to be at least at the equal level as that of the other concerned department chiefs for effective coordination of the Project. The Project Manager will report directly to the Project Chief.
3. The Japanese experts for the Project will provide necessary recommendations and advice to the Project Managers on any matters pertaining to the implementation of the Project.
4. The Japanese experts will give necessary technical guidance and advice to Bangladesh counterpart personnel on technical matters pertaining to the implementation of the Project.
5. For the effective and successful implementation of technical cooperation for the Project, a Steering Committee will be established whose functions and composition are described in Annex VI.

V. JOINT EVALUATION

Evaluation of the Project will be conducted jointly by JICA and the Bangladesh authorities concerned, during the last six months of the cooperation term in order to examine the level of achievement.

VI. CLAIMS AGAINST JAPANESE EXPERTS

In accordance with the provision of Article VII of the Agreement, the Government of Bangladesh undertakes to bear claims, if any arises, against the Japanese experts engaged in technical cooperation for the Project resulting from, occurring in the course of, or otherwise connected with the discharge of their official functions in Bangladesh except for those arising from the willful misconduct or gross negligence of the Japanese experts.

VII MUTUAL CONSULTATION

There will be mutual consultation between JICA and the Government of Bangladesh on any major issues arising from, or in connection with this Attached Document.

VIII. MEASURES TO PROMOTE UNDERSTANDING OF AND SUPPORT FOR THE PROJECT.

For the purpose of promoting support for the Project among the people of Bangladesh, the Government of Bangladesh will take appropriate measures to make the Project widely known to the people of Bangladesh.

IX. TERM OF COOPERATION

The duration of the technical cooperation for the Project under this attached Document will be for four years initiating preferably from February 2007.

ANNEX I PROJECT FRAMEWORK
ANNEX II TENTATIVE LIST OF THE FIELDS OF JAPANESE EXPERTS
ANNEX III LIST OF MACHINERY AND EQUIPMENT
ANNEX IV LIST OF BANGLADESH COUNTERPART AND ADMINISTRATIVE PERSONNEL
ANNEX V LIST OF WORKING SPACES AND FACILITIES
ANNEX VI STEERING COMMITTEE

Annex II

PROJECT FRAMEWORK

1. Title of the Project

The Project for Strengthening of Solid Waste Management in Dhaka City of Bangladesh

2. Overall goal

The solid waste management services of Dhaka City Corporation are sustained and the sanitary environment of the city is improved.

3. Project purpose

The solid waste management services of Dhaka City Corporation are improved.

4. Outputs

1. Management capacity of the Solid Waste Management Department is strengthened.
2. Participatory solid waste management program is promoted.
3. Capacity for solid waste collection and transportation is improved.
4. Final disposal sites are operated and managed appropriately.
5. Accounting system necessary for solid waste management is improved.

5. Activities

1-1 Hold monthly meetings among counterpart personnel of Waste Management Department (WMD), Japanese experts and concerned personnel in other departments
1-2 Compile annual Action Plans from Output 2, 3, 4 and 5
1-3 Advocate necessary actions related to Solid Waste Management (SWM) issues
1-4 Compile good practices and lessons learned from the project activities
1-5 Promote public relations activities such as publication of newsletters and establishment of the website
1-6 Disseminate DCC's SWM activities to other cities through Urban City Network
1-7 Review and modify Clean Dhaka Mater Plan

2-1 Review and analyze the previous interventions
2-2 Review and finalize the existing draft Ward SWM Guideline
2-3 Develop strategies for strengthening of community SWM in the previously and newly selected wards
2-4 Develop strategies for supporting program for primary collection service providers
2-5 Develop strategies for public participation and awareness raising of SWM activities
2-6 Make an annual Action Plan
2-7 Conduct training on relevant community-based SWM issues for WMD counterpart personnel
2-8 Conduct attitude survey among local people in selected wards
2-9 Implement and monitor participatory SWM activities
2-10 Assess the participatory SWM activities

3-1 Make an annual Action Plan

3-2 Operate weighbridge at Matuail and Amin Bazar sites by DCC
3-3 Identify every secondary collection route and its efficiency by route monitoring and employing weighbridge data
3-4 Identify problematic and/or inefficient routes
3-5 Optimize and reorganize routes to embrace a problematic and/or inefficient route
3-6 Establish route optimization practices (to be repeated periodically by DCC according to the speed of city expansion)
3-7 Conduct detailed analysis of equipment maintenance and repair management
3-8 Set up the indicators for equipment maintenance and repair management
3-9 Take necessary measures for improvement

4-1 Make an annual Action Plan
4-2 Assess the changes/improvements of disposal sites by regulatory bodies
4-3 Conduct on-the-job training on operation and maintenance of existing Matuail Landfill for WMD counterpart personnel
4-4 Conduct environmental monitoring for operation and maintenance in existing Matuail landfill
4-5 Formulate and submit Environmental Management Plan for Matuail landfill expansion to the Ministry of Environment and Forest (by DCC)
4-6 Construct Matuail landfill expansion (by DCC)
4-7 Conduct on-the-job training on operation and maintenance of Matuail landfill expansion for WMD counterpart personnel
4-8 Conduct environmental monitoring for operation and maintenance in Matuail landfill expansion
4-9 Formulate and submit Environmental Impact Assessment for Amin Bazar new landfill to the Ministry of Environment and Forest (by DCC)
4-10 Secure necessary budget and construct Amin Bazar new landfill (by the Bangladesh side)
4-11 Conduct on-the-job training on operation and maintenance of Amin Bazar new landfill for WMD counterpart personnel
4-12 Conduct environmental monitoring for operation and maintenance in Amin Bazar new landfill
4-13 Examine operation and maintenance modality including direct operation by DCC or contract/concession to private entity

5-1 Make an annual Action Plan
5-2 Conduct orientation program of accounting system for concerned staff members
5-3 Collect actual cost data and actual revenue data periodically in every month
5-4 Input data and output annual budget and monthly actual cost
5-5 Develop a financial report
5-6 Make a financial plan
5-7 Develop a strategy for increasing revenue for SWM

TENTATIVE LIST OF FIELD OF JAPANESE EXPERTS

1. Chief Advisor
2. Solid Waste Management
3. Community Mobilization/Communication
4. Optimization of Secondary Collection
5. Landfill Management
6. Waste Collection Vehicle and Equipment Maintenance Management
7. Financial Management
8. Local consultant will be assigned when necessary for smooth and effective implementation of the Project

LIST OF MACHINERY AND EQUIPMENT

1. The necessary machinery and equipment to achieve the project purpose, such as computer and software for waste collection routes optimization, office equipment, will be provided by the Japanese side.

Notes: The contents, specifications and quantity of equipment to be provided each year will be discussed in principle every year between the JICA Bangladesh office and the Bangladesh counterpart personnel based on the annual plan of the Project, within the allocated budget of the Japanese fiscal year.

LIST OF BANGLADESHI COUNTERPART PERSONNEL

1. Counterpart personnel

Area	Name	Number	Required qualification
Management and Coordination	Leader	1	
	Deputy Leader	1	Full-time
	Officer	3	Full-time
	Other program members		
Community Management/ Communication	Leader	1	
	Deputy Leader	1	Full-time
	Officer	3	Full-time
	Conservancy Inspectors (CI)	8	(Including CIs of the 5 new activity areas)
Collection and Transportation	Leader (Engineer)	1	Full-time
	Deputy Leader (Engineer)	2	Full-time
	Engineer	3	Full-time (including Computer Operator)
	Officer	6	
	Engineer(Town Planner)*	2	
	Engineer(Mechanical 1)*	1	
	Engineer(Mechanical 2)*	1	
	Engineer(Store)*	1	
Landfill Management (Landfill Management Unit)	Site Manager (Engineer)*	1	
	Asst. Site Manager(Engineer)*	2	Full-time
	Dumping Platform Instructor	8	Full time, shift basis
	Reception and Control staff	4	Full time, shift basis
	Administrative Officer	1	Full-time
	Maintenance staff	2	Full time
	Heavy Equipment Operator	20	Full time, shift basis
	Car wash staff	8	Full time, shift basis
	Guard	6	Full time, shift basis
Accounting Management	Leader(Accounts Officer)	1	
	Deputy Leader	1	
	Officer	6	

Will be selected and assigned based on their motivation and skill to perform waste management related activities.

2. Administrative personnel
   - Clerk administrator
   - Computer operators
   - Office clerks
   - Other supporting staff necessary for the project implementation (e.g. drivers)

Annex V

LIST OF WORKING SPACES AND FACILITIES

1. Project offices and facilities at DCC Head Quarter
2. Other facilities mutually agreed upon as necessary for the implementation of the Project

STEERING COMMITTEE

1. Functions

The Steering Committee (hereinafter S/C) shall be established for the effective and successful implementation of technical cooperation for the Project. The S/C shall meet at least once every six (6) months or whenever necessity arises. The main functions of S/C shall be as follows;

(1) To examine and approve the Annual Plan of Operations to be formulated by the Project based on the tentative schedule of implementation within the framework of the Record of Discussions;
(2) To review the overall progress and achievement of the Project and activities carried out under the above-mentioned Annual Plan of Operations in particular;
(3) To review and exchange views on major issues arising from or in connection with the Project and recommended corrective measures; and
(4) To facilitate coordination with other relevant authorities.

2. Chairperson and members

(1) Chairperson
- Chief Executive Officer/Project Chief, DCC

(2) Committee Members

<Bangladesh side>
- Project Manager
- Secretary of DCC
- Chief Conservancy Officer
- Chief Engineer
- Chief Health Officer
- Chief Accountant
- Chief of Store
- Representative of Local Government Division, Ministry of LGRD & Co-operatives
- Representative of Economic Relations Division, Ministry of Finance
- Representative of Department of Environment and Forestry
- Other personnel concerned to be decided and/or dispatched by the Bangladesh side, if necessary

<Japanese side>
- Chief advisor to be dispatched by JICA
- Representatives of JICA Bangladesh Office
- Representatives of Embassy of Japan
- Other personnel concerned to be decided and/or dispatched by JICA, if necessary