

Table 2-1 Priority projects/ programs planned by the Clean Dhaka Master Plan

Priority Projects/ Programs	Implementation	Japan's Input	Achievements of each project/ program
<b>1. Primary Collection/Public Involvement</b>			
1-1. Institutionalization of Ward Solid Waste Management System	Implemented	F/U, JOCV, T/C, EGAP	<ul style="list-style-type: none"> <li>WBA was authorized as a work of WMD.</li> <li>Community Solid Waste Management budget secured and started to be used.</li> </ul>
1-2. Establishing a System of Approval and Monitoring of Primary Collection Service Providers	Implemented	F/U, T/C	New permission and monitoring process is going on by DCC.
1-3. Supporting Primary Collection Service Providers	Implemented	F/U, JDCE, JOCV, T/C, EGAP	<ul style="list-style-type: none"> <li>Training</li> <li>Facilitate the coordination with community and DCC</li> <li>Equipment (hand trolleys, improved rickshaw vans etc.)</li> <li>Mobilization of community and harmonization with compactor</li> </ul>
1-4. Initial Implementation of Ward Solid Waste Management System (20 Wards)	Implemented	F/U, JDCE, JOCV, T/C, EGAP	<ul style="list-style-type: none"> <li>Core groups of WBA were established.</li> <li>CAPs were formulated and implemented in 16 wards.</li> <li>20 CUWG (300 people) have been trained, enlightened, directly mobilized to the community SWM activities and CAP implementation.</li> <li>Around 60 community leaders training and seminars were carried out on climate change, ward solid waste management etc.</li> <li>Training for ward councilors/ commissioners was arranged twice. Their voices were incorporated in community based approaches of WBA.</li> </ul>
1-5. Organization of Bangladesh Solid Waste Management Conference	Implemented	T/C	<ul style="list-style-type: none"> <li>It was organized twice and Dhaka Declaration was issued.</li> </ul>
<b>2. Secondary Collection/Transport and Road/Drain Cleaning</b>			
2-1. Increase of new containers and trucks	Implemented	JDCE, EGAP	Containers: F/U (2), DCC (200), JDCE (27), EGAP (150), DCC (100) Trucks: JDCE (27), EGAP (100), DCC (20)
2-2. Increase of driver and truck cleaners	Implemented	T/C	<ul style="list-style-type: none"> <li>Done by DCC.</li> </ul>



2-3. Formation of Chain of Management in SWM	Implemented	T/C	<ul style="list-style-type: none"> <li>• Training was conducted by T/C.</li> <li>• Good team of LMU</li> <li>• Staffing at workshop</li> <li>• Advice and transparent data and reports are timely prepared and shared among CI, CO, and CWMO.</li> </ul>
2-4. Setting up Operation and Management Plan	Implemented	JOCV, T/C	<ul style="list-style-type: none"> <li>• Annual Plan has been prepared since 2011.</li> <li>• Continuous planning is going on in WMD of DNCC and DSCC on various aspects of SWM e.g., finding location and construction of ward offices, and mini transfer stations.</li> </ul>
2-5. Capacity Development of Workers	Implemented	F/U, JDCE, T/C, EGAP	Training programs for cleaners, PCSP and DCC staff were held.
<b>3. Final Disposal</b>			
3-1. Improvement of Existing Matuail Dump Site	Implemented	F/U, JDCE, T/C, EGAP	New dumping plat forms, leachate treatment facilities, perforated piping grids, access roads etc. were constructed.
3-2. Securing Future Landfill Site	Implemented	T/C	Study underway. Meeting and site visits were done in neighboring City Corporations.
3-3. Closure of Berri Band Dump Site	Implemented	F/U, JDCE, T/C, EGAP	All dumping spots were closed.
3-4. Establishment of Management Organization for Final Disposal	Implemented	F/U, JDCE, T/C, EGAP	LMU was setup with assistant engineer and sub assistant engineers in Matuail landfill but LMU in Amin Bazaar landfill has not been organized.
3-5. Capacity Development of Disposal Section	Implemented	F/U, JDCE, T/C, EGAP	<ul style="list-style-type: none"> <li>• Heavy equipment procured.</li> <li>• Environmental Pollution control measures taken as per EMP after EIA.</li> <li>• Training of LMU staff, heavy equipment operator, landfill inspector was organized.</li> <li>• Operation and maintenance of weighbridges, leachate ponds, dumping platforms, chemical treatment of leachate, air quality monitoring devices, flood lights, security facility are implemented.</li> <li>• Landfill operation can be controlled independently in rainy season efficiently.</li> </ul>



			<ul style="list-style-type: none"> <li>• Collaborative research on heavy metals concentration in leachate was held.</li> <li>• Leachate treatment plant has met the standard of quality parameters defined by act and rules.</li> </ul>
<b>4. Legal Aspects</b>			
4-1. Compliance with Environmental Conservation Act/ Rules and Preservation Act	Implemented	F/U, JDCE, JOCV, T/C, EGAP	<ul style="list-style-type: none"> <li>• Environmental monitoring of the landfills was implemented once.</li> </ul>
4-2. Legal Training to DCC Staff	Implemented	T/C	<ul style="list-style-type: none"> <li>• Law seminars and meetings and discussion on administrative procedures.</li> </ul>
4-3. Enforcement of Section 150 against Illegal Garbage Throwing and Dumping	Implemented	—	Not fully practiced. But some initiatives of enforcement to against the illegal dumping were taken by COs.
<b>5. Organization Aspects</b>			
5-1. Preparation of Annual Operation Plan according to Master Plan	Implemented	T/C	Annual operational plan has been prepared since 2011.
5-2. Improvement of Operational Organization	Implemented	F/U, JDCE, JOCV, T/C, EGAP	Communication among WMD and relevant DCC departments/divisions has been enhanced.
5-3. Reforming Organization for SWM	Implemented	F/U, T/C	WMD was established.
5-4. Training of DCC Staff for SWM	Implemented	F/U, JDCE, JOCV, T/C, EGAP	Around 40 CIs and COs took PRA training. Advance PRA training. WBA training. TOT training. CUWG training preparatory training. PCSP training preparatory training. SWM group training in Japan and demonstrated in the field.
<b>6. Financial Aspect</b>			
6-1. Modification of Accounting system to Exhibit Actual SWM Cost explicitly	Implemented	T/C	<ul style="list-style-type: none"> <li>• Accounting system for SWM was established. And a budget officer makes account report on regular basis.</li> <li>• Bottom-up budgeting system was introduced.</li> </ul>
6-2. Financing for Master Plan Implementation	Not implemented	—	Revenue increase plan proposed by the Master Plan was not implemented because of political difficulties.
<b>7. Privatization</b>			
7-1. Continuation of Pilot Project on Privatization with In-depth Evaluation	Implemented	JDCE, EGAP	Outsourcing of waste collection service has been expanded.

\* F/U: Follow-up of Development Study (2006)  
 JDCE: Japan Debt Cancellation Fund (2006–2011)

JOCV: Japan Overseas Cooperation Volunteers (2006 – present)  
T/C: Technical Cooperation Project (2007 – present)  
EGAP: Environmental Grant Aid Program (2009 – 2010)



## Annex 1: Project Design Matrix (PDM)

【Project Title】The Project for Strengthening of Solid Waste Management in Dhaka City of Bangladesh 【Target Groups】①Waste Management Department, ② Concerned Department, ③City residents 【Date】February 2011  
 【Project Period(extension)】February 2011- February 2013(2years) 【Target Area】Under the jurisdiction of Dhaka City Corporation 【PDM Version】Extension

Narrative Summary		Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<b>Overall Goal</b>				
The solid waste management services of Dhaka City Corporation are sustained and the sanitary environment of the city is improved.		More than 66% (or 3054 ton/day) of wastes is transported to landfill sites and disposed properly by 2015.	1 Reports of WMD Project Evaluation Report	National policy to give priority to solid waste management is sustained
<b>Project Purpose</b>				
The solid waste management services of Dhaka City Corporation are improved		More than 2,540ton/day(or 58 % of total amount of waste) of wastes is transported to landfill sites and disposed properly by the end of extension period.	1 Project Progress Report Project Annual Report	Commitment to attainment of Clean Dhaka Master Plan from Dhaka City Corporation and other stakeholders is sustained.
<b>Outputs</b>				
1	Capacity for management and coordination of WMD is improved.	1.1 WMD can formulate SWM Activity Plans(annual) for SWM	1.1 Interview Project Progress Reports Project Annual Reports	Necessary cooperations and supports form WMD, other department in DCC and concerned ministry(LGRD and MoE) are secured  Recruitment of 120 WMD staff are completed in the first half of extension period
		1.2 Proper monitoring system of SWM activities by WMD is established and managed	1.2 Interview Project Progress Reports Project Annual Reports	
		1.3 Periodically collecting and analyzing landfill weighbridge data in the WMD's Headquarters for SWM operational management	1.3 Interview Project Progress Reports Project Annual Reports	
		1.4 Framework for promoting WBA including personnel assignment and duties in WMD is clarified and institutionalized as WMD order	1.4 Interview Project Progress Reports	

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【PDM Version】Extension

Narrative Summary		Objectively Verifiable Indicators		Means of Verification	Important Assumptions	
2	Capacity for promoting WBA of WMD is improved	2.1	Functions of more than 10 newly constructed or renovated "Ward Office" are successfully strengthened by the end of project(WBA1)	Project Annual Reports Project Progress Reports 2.1 Project Annual Reports Physical observations		
			2.2	Data for number of traffic accident of cleaners are periodically collected and analyzed (WBA2)		Interview/Field survey Project Progress Reports 2.2 Project Annual Reports
			2.3	More than 3 wards (3 units) composes "Community Action Plan(CAP)"(WBA3)		Project Progress Reports 2.3 Project Annual Reports
			2.4	More than 3 wards (3 units) improve conventional collection system(WBA4)		Interview/Field survey Project Progress Reports 2.4 Project Annual Reports
			Activities			Inputs
1-1	To promote WMD staff recruitment (by DCC)	Japanese Side		1 Frequent transfer of trained counterpart personnel does not occur 2 Staff whose capacity has been developed in the Project and the Development Study are		
1-2	To collect necessary data and information for SWM Activity Plans(annual)	1 Dispatch of experts				
1-3	To formulate SWM Activity Plans(annual) based on 1-2	(1) Chief Adviser/Organizational Management				



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1.4	To confirm present situation of collecting and analyzing weighbridge data	(2) Community Solid Waste Management		properly assigned. DCC allocates appropriate budget to conduct the Project activities.
1.5	To improve the collection and analysis based on 1-4	2 Provision of equipment		
1-6	To formulate the trainings/seminars(WBA, TOT, PRA etc.) plan for WMD staffs, PCSP, Community and others	3 Training of counterparts		
1.7	To hold trainings/seminars based on 1-6	4 Dispatch of study team(when necessary)		
1.8	To discuss on establishing proper external monitoring system for SWM activities	5 Allocation of operational costs for the Project		
1.9	To implement monitoring based on 1.8			
1.10	To discuss and set proper framework for promoting WBA including duties and personnel assignment in WMD among all WBA related staffs including WBA core group members			
1.11	To prepare and issue WMD order of framework on 1.11			
1.12	To discuss on framework of researching city residence's needs and satisfaction for collection services based on the experience of the Project(2007-11)			
1.13	To monitor the activities of Output 4 (landfill management) of the PDM3 (by DCC)			
1.14	To monitor the activities of Output 5 (financial management) of the PDM3(by DCC)			
2-1	To discuss and revise Ward SWM Guideline			
2.2	To discuss and confirm the strategy for			

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【PDM Version】Extension

Narrative Summary		Objectively Verifiable Indicators	Means of Verification	Important Assumptions
	introducing and managing WBA under the ownership of WMD			
2.3	To develop the annual plan for expanding WBA(WBA1-4)			
2.4	To confirm present situation of WBA activities at targeted area introduced in the Project(2007-11)			
2.5	To newly construct or renovate "Ward office"(by DCC)			
2.6	To discuss and confirm functions at each ward office			
2.7	To enhance functions at each ward office			
2.8	To establish safety and sanitation committee			
2.9	To disseminate a "Cleaner's working manual"			
2.10	To distribute sanitary and safety working materials(safety gears, mask, first aid kit box) to cleaners	Bangladesh Side		
2.11	To hold a "Cleaners Workshop"	1 Assignment of counterpart personnel		
2.12	To compile data for number of traffic accident of cleaners in safety and sanitation committee	2 Provision of land, building, and other necessary facilities(including "Ward Office")		
2.13	To hold a "Kickoff Meeting" and exchange opinions for local SWM with community with possible cooperation of JOCV	3 Allocation of operational costs for the Project		
2.14	To support organizing a "Community Unit Working Group(CUWG)" with possible cooperation of JOCV			
2.15	To support CUWG for implementing community SWM activities including formulation of "Community Action Plan(CAP)			



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Narrative Summary		Objectively Verifiable Indicators	Means of Verification	Important Assumptions
	with possible cooperation of JOCV			
2.16	To support and manage "Primary Collection Service Provider(PCSP)" utilizing PCSP permission and monitoring system			
2.17	To conduct surveys for present collection system in each ward			
2.18	To coordinate among community people, primary collection service providers and DCC			Pre-conditions
2.19	To improve collection system based on 2-18 and 2-19			

Annex 2: Dispatch of Japanese Experts

1st FY

Duty	Name	Firm		1st FY									Dhaka	Japan				
				H23(2011)														
				8	9	10	11	12	1	2	3							
Chief Adviser/Organizational Management	Akio Ishii	yec	Original	█	█	█	█	█	█	█	█	█	█	█	█	3.50	0.0	
			Revised	█	█	█	█	█	█	█	█	█	█	█	█	█	3.50	0.0
			Actual	█	█	█	█	█	█	█	█	█	█	█	█	█	3.50	0.0
Deputy Chief Adviser /Community Solid Waste Management II/Collection and Transportation	Takatoshi Arai	yec	Original	█	█	█	█	█	█	█	█	█	█	█	█	2.90	0.0	
			Revised	█	█	█	█	█	█	█	█	█	█	█	█	2.90	0.0	
			Actual	█	█	█	█	█	█	█	█	█	█	█	█	█	2.90	0.0
Community Solid Waste Management I	Junko Okamoto	Oriental Consultants	Original	█	█	█	█	█	█	█	█	█	█	█	█	1.70	0.0	
			Revised	█	█	█	█	█	█	█	█	█	█	█	█	█	1.70	0.0
			Actual	█	█	█	█	█	█	█	█	█	█	█	█	█	1.70	0.0
Landfill Site Management	Masahiro Saito	yec	Original	█	█	█	█	█	█	█	█	█	█	█	█	0.70	0.0	
			Revised	█	█	█	█	█	█	█	█	█	█	█	█	█	0.70	0.0
			Actual	█	█	█	█	█	█	█	█	█	█	█	█	█	0.70	0.0
Financial Management	Noboru Osakabe	yec	Original	█	█	█	█	█	█	█	█	█	█	█	█	0.70	0.0	
			Revised	█	█	█	█	█	█	█	█	█	█	█	█	█	0.70	0.0
			Actual	█	█	█	█	█	█	█	█	█	█	█	█	█	0.70	0.0
Project Administration/Assistance of Community Solid Waste Management	Ayumi Koyama	yec	Original	█	█	█	█	█	█	█	█	█	█	█	█	1.00	0.0	
			Revised	█	█	█	█	█	█	█	█	█	█	█	█	█	1.00	0.0
			Actual	█	█	█	█	█	█	█	█	█	█	█	█	█	1.83	0.0
Legend											10.5	0.0						
█ : Dhaka (Original)											11.33	0.00						
█ : Dhaka (Revised)											11.33	0.00						
█ : Dhaka (Actual)																		

Total assignments is 11.33 MM



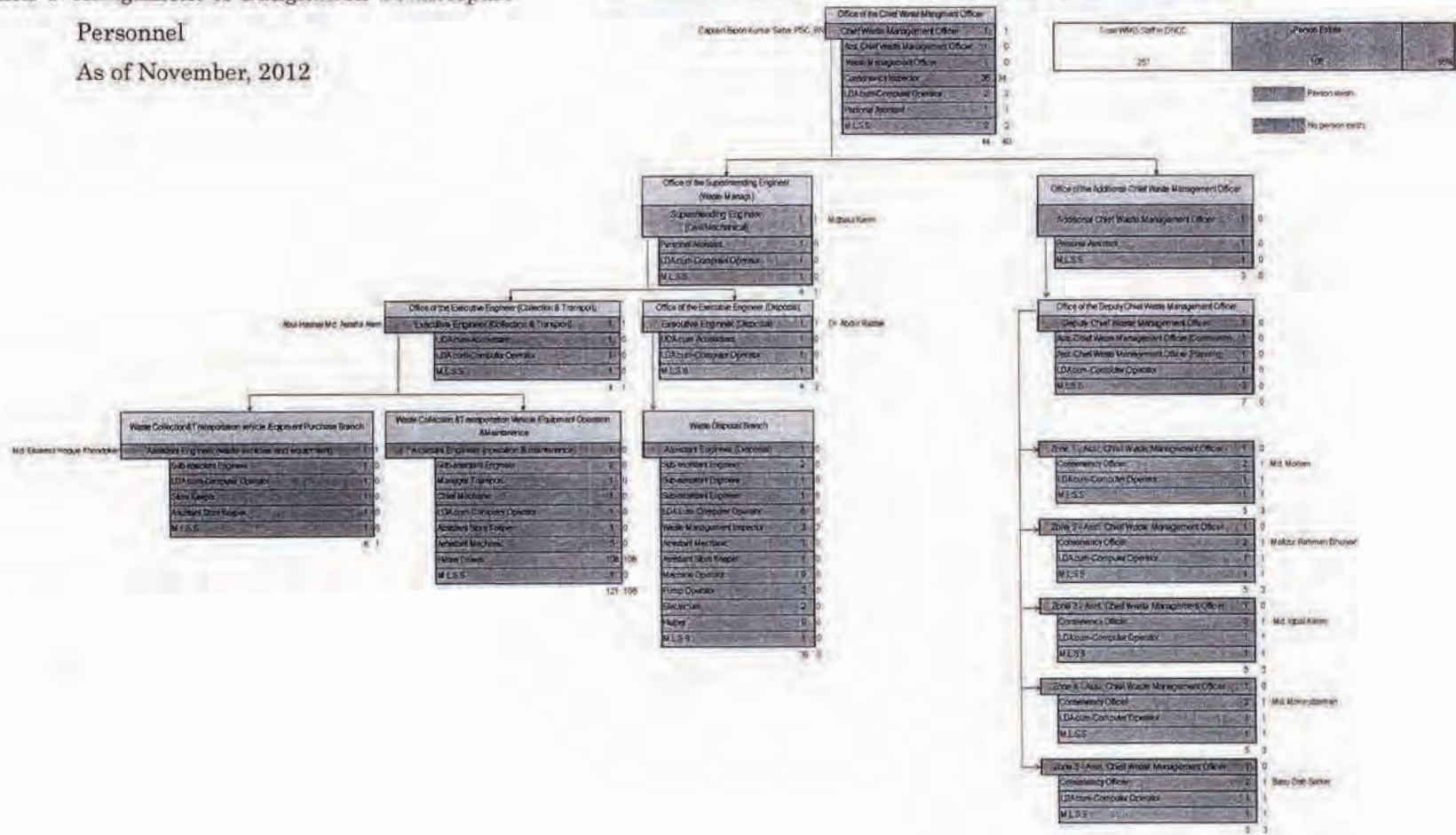
2<sup>nd</sup> FY (As of November, 2012)

Duty	Name	Firm	2nd FY										Dhaka	Japan			
			H24(2012)								H25(2013)						
			5	6	7	8	9	10	11	12	1	2					
Chief Adviser/Organizational Management	Akio Ishii	yec	Original	■ (30)				■ (30)			■ (30)		■ (33)		4.10	0.0	
			Revised	■ (16)	■ (14)	■ (28)	■ (28)			■ (22)		■ (21)	■ (22)		■ (23)	4.10	0.0
			Actual	■ (16)	■ (14)	■ (28)	■ (28)			■ (22)		■ (21)	■ (22)		■ (23)	3.00	0.0
Deputy Chief Adviser /Community Solid Waste Management II/ Collection and Transportation	Takatoshi Arai	yec	Original			■ (18)			■ (14)			■ (25)		1.90	0.0		
			Revised			■ (21)	■ (10)		■ (30)		■ (19)	■ (9)		■ (23)	1.90	0.0	
			Actual			■ (21)	■ (10)		■ (30)		■ (19)	■ (9)		■ (23)	1.90	0.0	
Community Solid Waste Management I	Junko Okamoto	yec	Original		■ (30)				■ (30)			■ (30)		2.00	0.0		
			Revised	■ (1)	■ (17)			■ (2)	■ (13)		■ (30)		■ (23)	2.10	0.0		
			Actual	■ (1)	■ (17)			■ (2)	■ (13)		■ (30)		■ (23)	1.27	0.0		
Landfill Site-Management	Masahiro Saito	yec	Original			■ (18)							■ (18)		0.60	0.0	
			Revised										■ (18)		0.60	0.0	
			Actual										■ (18)		0.00	0.0	
Financial Management	Noboru Osakabe	yec	Original					■ (12)		■ (29)			■ (18)		0.60	0.0	
			Revised					■ (12)		■ (29)			■ (18)		0.60	0.0	
			Actual					■ (12)		■ (29)			■ (18)		0.60	0.0	
Project Administration/ Assistance of Community Solid Waste Management and Organizational Management	Ayumi Koyama	yec	Original	■ (18)								■ (21)		1.30	0.0		
			Revised	■ (16)	■ (14)					■ (9)	■ (1)	■ (25)		2.60	0.0		
			Actual	■ (16)	■ (14)					■ (9)	■ (1)	■ (25)		1.77	0.0		
Events			▲ Ramadan Training in JP ▲ St/C Explanation and discussion of IC/R ▲ PGR 2 ▲ Project Final Report (F/R)														
Legend											Original	9.9	0.0				
■ Dhaka (Original) ■ Dhaka (Revised) ■ Dhaka (Actual)											Revised	11.9	0.0				

Total assignments is 11.9 MM

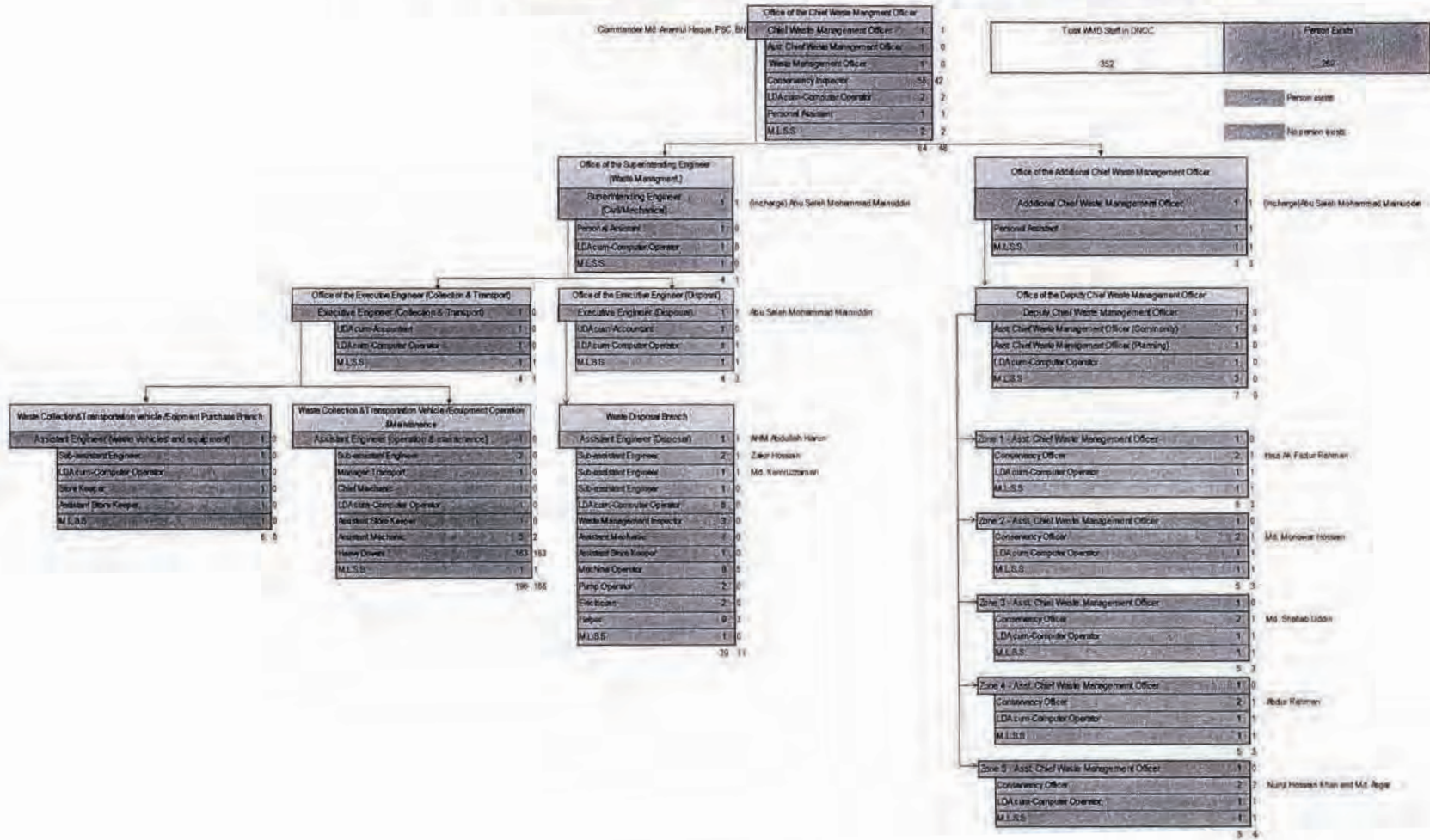
Annex 3: Assignment of Bangladesh Counterpart  
 Personnel  
 As of November, 2012

**Dhaka North City Corporation**





# Dhaka South City Corporation



#### Annex 4: Training of Counterpart Personnel

##### Training in Indonesia

SL	Name	Position
1	Abul Hasnat Md. Ashrafal Alam	Executive Engineer
2	KM Kabir Ahmed	Zonal Executive Officer
3	Md. Nurul Hossain Khan	Conservancy Officer

##### Training in Japan

SL	Name	Position
1	Captain Bipan Kumar Saha	CWMO, DNCC
2	Captain Md. Anamul Haque	CWMO, DSCC
3	AK Fazlur Rahman	CO (Zone - 1), DSCC

#### Annex 5: Provision of Equipment

There is no equipment provided in the extension phase of the project.



Annex 6: Evaluation Grid

10/11/2012

Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note	
	Primary Questions	Secondary Questions					
Verification of the results	Overall Goal is expected to be realized as planned?	More than 66% (or 3054 ton/day) of wastes is transported to landfill sites and disposed properly by 2015.	<ul style="list-style-type: none"> <li>• Volume of waste transported to landfill sites before and during the project (change in time series)</li> </ul>	<ul style="list-style-type: none"> <li>• Reports of WMD</li> <li>• Project Annual Reports</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> </ul>		
	Project Purpose is expected to be realized as planned?	More than 2,540 ton/day (or 58 % of total amount of waste) of wastes is transported to landfill sites and disposed properly by the end of extension period.	<ul style="list-style-type: none"> <li>• Volume of waste transported to landfill sites before and during the project (change in time series)</li> <li>• Properness of disposition.</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>		
	Outputs were/are expected to be realized as planned?	1-1 WMD can formulate SWM Activity Plans(annual) for SWM.		<ul style="list-style-type: none"> <li>• Annual activity plan</li> <li>• Quality of annual activity plan</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		1-2 Proper monitoring system of SWM activities by WMD is established and managed.		<ul style="list-style-type: none"> <li>• Implementation structure for monitoring (organization, human resource, etc.)</li> <li>• Official document which stipulates the monitoring method and procedures</li> <li>• Budget for monitoring</li> <li>• Implementation status of monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		1-3 Periodically collecting and analyzing landfill weighbridge data in the WMD's Headquarters for SWM operational management.		<ul style="list-style-type: none"> <li>• Status of weighbridge installation</li> <li>• Collecting status of weighbridge</li> <li>• Collected data of weighbridge</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	

Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Verification of the results (contd.)		1-4 Framework for promoting WBA including personnel assignment and duties in WMD is clarified and institutionalized as WMD order.	<ul style="list-style-type: none"> <li>• What is the framework?</li> <li>• Status of personnel assignment of WMD</li> <li>• WMD's job descriptions</li> <li>• Appropriateness of WMD's job descriptions</li> <li>• Applications of WMD's job descriptions</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		2-1 Functions of more than 10 newly constructed or renovated "Ward Office" are successfully strengthened by the end of project. (WBA1)	<ul style="list-style-type: none"> <li>• Number of functioning Ward Office</li> <li>• Activities of Ward Office</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		2-2 Data for number of traffic accident of cleaners are periodically collected and analyzed. (WBA2)	<ul style="list-style-type: none"> <li>• Data of traffic accident of cleaners</li> <li>• Collection status of the data of traffic accident of cleaners</li> <li>• Accuracy of the data of traffic accident of cleaners</li> <li>• Status of analysis and application of the data of traffic accident of cleaners</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		2-3 More than 3 wards (3 units) composes "Community Action Plan." (WBA3)	<ul style="list-style-type: none"> <li>• Community Action Plans</li> <li>• Number of ward who made Community Action Plan</li> <li>• Quality of Community Action Plan</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	



Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Verification of the results (contd.)		2-4 More than 3 wards (3 units) improve conventional collection system. (WBA4)	<ul style="list-style-type: none"> <li>• Number of ward in which conventional collection system improved</li> <li>• Status of improvement of conventional collection system</li> <li>• Will WMD be able to improve conventional collection system in other wards through this experience? (The meaning or intention of this Output in unclear.)</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
	Inputs (human, physical, financial) were provided as planned?	Inputs from Japan side Quality, number and timing of JET dispatched	<ul style="list-style-type: none"> <li>• Input list</li> <li>• Opinions of C/Ps</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Inputs from Japan side Quality, number and timing of equipment provided	<ul style="list-style-type: none"> <li>• Input list</li> <li>• Opinions of C/Ps</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Inputs from Japan side Quality, number and timing of training in Japan/ third country	<ul style="list-style-type: none"> <li>• Input list</li> <li>• Opinions of C/Ps</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Inputs from Japan side Quality, number and timing of missions such as advisory mission.	<ul style="list-style-type: none"> <li>• Input list</li> <li>• Opinions of C/Ps</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Inputs from Bangladesh side Quality, number and timing of C/Ps assigned	<ul style="list-style-type: none"> <li>• Input list</li> <li>• Opinions of JET</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	

Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Verification of the results (contd.)		Inputs from Bangladesh side Quality, number and timing of land, building and other necessary facilities provided	<ul style="list-style-type: none"> <li>• Input list</li> <li>• Opinions of JET</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
			Inputs from Bangladesh side Amount and timing of operational cost provided	<ul style="list-style-type: none"> <li>• Input list</li> <li>• Opinions of JET</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>
Verification of the project implementation process	Activities were implemented as planned?	Were there any obstacles in the process of technology transfer? If any, what were the causes, and what are the solutions overcoming those obstacles?	<ul style="list-style-type: none"> <li>• Progress of activities compared with the plan</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
	Technology transfer was adequately realized?	Were there any obstacles in the process of technology transfer? If any, what were the causes, and what are the solutions overcoming those obstacles?	<ul style="list-style-type: none"> <li>• Progress of technology transfer</li> <li>• Understanding and learning of C/Ps</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
	Project management was properly performed?	Monitoring of the project achievements and progress was implanted in the project management?		<ul style="list-style-type: none"> <li>• Ways of monitoring and frequency</li> </ul>	<ul style="list-style-type: none"> <li>• Monitoring System</li> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>
		Internal communication of the project was smoothly realized?	<ul style="list-style-type: none"> <li>• Communication channels and system such as regular meeting</li> <li>• Topics discussed in those meetings</li> </ul>	<ul style="list-style-type: none"> <li>• M/M of regular meetings</li> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Communication and collaboration with JICA HQs and JICA Bangladesh office was smooth and adequate?	<ul style="list-style-type: none"> <li>• Communication and collaboration with JICA HQs and JICA Bangladesh office</li> </ul>	<ul style="list-style-type: none"> <li>• M/M of meetings</li> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	



Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Verification of the project implementation process (contd.)		Communication and collaboration with DCC and WMD was smooth and adequate?	<ul style="list-style-type: none"> <li>• Communication and collaboration with DCC and WMD</li> </ul>	<ul style="list-style-type: none"> <li>• M/M of meetings</li> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
	Bangladesh government and parties concerned highly recognize the project?	DCC and WMD had a high ownership on the project?	<ul style="list-style-type: none"> <li>• DCC budget for the project (change in time series)</li> <li>• Implementation of project activities</li> <li>• Communication and collaboration</li> <li>• Opinions of DCC and WMD staff</li> </ul>	<ul style="list-style-type: none"> <li>• Budget report of DCC</li> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> <li>• Managers and staff of DCC and WMD</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
	Bangladesh organizations and parties concerned highly recognized and participated in the project?	Stakeholders such as CIs, COs, CSIs, CUWGs, PCSPs, drivers and cleaners highly recognized the project and participated in the project activities?	<ul style="list-style-type: none"> <li>• Opinions of parties concerned</li> <li>• Recognition of CIs, COs, CSIs, CUWGs, PCSPs, drivers and cleaners</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> <li>• CIs, COs, CSIs, CUWGs, PCSPs, drivers and cleaners</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
	What were the hindering and promoting factors affected the progress of the project?	What were the hindering and promoting factors affected the progress of the project? If any, what were the causes, and what are the solutions overcoming those obstacles?	<ul style="list-style-type: none"> <li>• Progress of activities compared with the plan</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
	Communication and collaboration with other projects and programs were adequate?	Communication and collaboration with the development study, JDCE, JOCV, grass roots grant aid and environmental program grant aid were effective and efficient?	<ul style="list-style-type: none"> <li>• Communication and collaboration</li> <li>• Project progress</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
	Relevance	Development effects targeted by the project are aligned with the Bangladesh national policies?	What are targeted by the SWM in the Bangladesh national environment policies and strategies?	<ul style="list-style-type: none"> <li>• Target of the SWM in the Bangladesh national environment policies and strategies</li> <li>• Target of the SWM in the Dhaka</li> </ul>	<ul style="list-style-type: none"> <li>• Bangladesh national environment policies and strategies</li> <li>• Dhaka city development plan</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> </ul>

Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Relevance (contd.)			<ul style="list-style-type: none"> <li>city development plan</li> <li>DCC budget for the SWM (change in time series)</li> </ul>	<ul style="list-style-type: none"> <li>Budget report of DCC</li> </ul>		
	Development effects targeted by the project are aligned with the Japanese international cooperation policies?	What were targeted by the JICA's country-specific aid implementation policy for Bangladesh?	<ul style="list-style-type: none"> <li>Japan's aid implementation policy for SWM in Bangladesh?</li> </ul>	<ul style="list-style-type: none"> <li>JICA's country-specific aid implementation policy for Bangladesh</li> </ul>	<ul style="list-style-type: none"> <li>Literature Survey</li> </ul>	
	Development effects targeted by the project met the needs of the target groups?	Strengthening of SWM is required by the DCC?	<ul style="list-style-type: none"> <li>Social, managerial and technical problems and issues relating to SWM</li> </ul>	<ul style="list-style-type: none"> <li>DCC documents</li> <li>C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>Literature Survey</li> <li>Interview</li> </ul>	
		Improvement of SWM is required by the residents in Dhaka city?	<ul style="list-style-type: none"> <li>Requirement of residents in Dhaka city for SWM</li> </ul>	<ul style="list-style-type: none"> <li>DCC documents</li> <li>C/P, JET and other stakeholders</li> <li>residents in Dhaka city</li> </ul>	<ul style="list-style-type: none"> <li>Literature Survey</li> <li>Interview</li> </ul>	
	Approach adopted by the project was relevant for achieving the Project Purpose and the Overall Goal?	Combination of two outputs, i.e. the improvement of the capacity of management and coordination of WMD and the capacity for promoting WBA of WMD were relevant for achieving the Project Purpose and the Overall Goal?	<ul style="list-style-type: none"> <li>Opinions of parties concerned</li> </ul>	<ul style="list-style-type: none"> <li>Development Study Report</li> <li>Ex-post evaluation report</li> <li>C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>Literature Survey</li> <li>Interview</li> </ul>	
	Japan has a predominant SWM technology and experiences?	Japan's SWM technology and experiences were properly employed in the project?	<ul style="list-style-type: none"> <li>Opinions of parties concerned</li> </ul>	<ul style="list-style-type: none"> <li>Development Study Report</li> <li>Ex-post evaluation report</li> <li>C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>Literature Survey</li> <li>Interview</li> </ul>	
		Experiences of the development study were effectively employed in the project?	<ul style="list-style-type: none"> <li>Opinions of parties concerned</li> </ul>	<ul style="list-style-type: none"> <li>Development Study Report</li> <li>C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>Literature Survey</li> <li>Interview</li> </ul>	
		Collaboration with the development study, JDCF, JOCV,	<ul style="list-style-type: none"> <li>Collaboration and its effects on the project</li> </ul>	<ul style="list-style-type: none"> <li>Project Progress Report</li> <li>Project Annual Reports</li> </ul>	<ul style="list-style-type: none"> <li>Literature Survey</li> </ul>	



Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
		grass roots grant aid and environmental program grant aid were effective and efficient?	• Opinions of parties concerned	• C/P, JET and other stakeholders	• Interview	
Effectiveness	Project Purpose was achieved by the attribution of the Outputs?	Indicators of Project Purpose were achieved? (See "Verification of the results.")	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results."	
		Achievements of indicators of Project Purpose were realized by the achievements of Outputs?	• Achievements of indicators of Project Purpose (See "Verification of the results.") • Achievements of indicators of Outputs (See "Verification of the results.") • Opinions of parties concerned	(See "Verification of the results.") • C/P, JET and other stakeholders	See "Verification of the results." • Interview	
		Cause and effect relationships between Outputs and Project Purpose were logical and relevant? (See "Relevance.")	(See "Relevance.")	(See "Relevance.")	See "Relevance."	
	What were the factors hindered and/or promoted the achievement of the Project Purpose?	Necessary cooperation and supports from WMD, other department in DCC and concerned ministry (LGRD and MOE) are secured (Important Assumption)	• Status of cooperation and supports from WMD, other department in DCC and concerned ministry (LGRD and MOE) • Policy of cooperation and supports for SWM of WMD, other department in DCC and concerned ministry (LGRD and MOE).	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
	Recruitment of 120 WMD staff are completed in the first half of extension period (Important Assumption)	• Recruitment of 120 WMD staff	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview		

Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Effectiveness (contd.)		How has the division of DCC affected the achievement of the project purpose?	<ul style="list-style-type: none"> <li>• Activity record of the project</li> <li>• Opinions of parties concerned</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Were there any other promoting and hindering factors?		<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
Efficiency	Quality, quantity and timing of the Inputs were appropriate for achieving Outputs?	The number, fields, capacity, timing and duration of dispatch of Japanese experts were relevant and appropriate? (See "Verification of the results.")	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results."	
		The number, specifications, timing and quality of equipment granted were relevant and appropriate? (See "Verification of the results.")	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results."	
		The number of participants, contents, duration and timing of trainings in Japan were relevant and appropriate? (See "Verification of the results.")	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results."	
		The number, capacity and assignment timing of the counterparts were relevant and appropriate? (See "Verification of the results.")	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results."	
		Buildings and facilities provided by the Bangladesh side were relevant and appropriate? (See "Verification of the results.")	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results."	
	What were the hindering and/or promoting factors affected efficiency	Communication and collaboration with the development study, JDCF, JOCV, grass roots grant aid and environmental program grant	(See "Relevance.")	(See "Relevance.")	See "Relevance."	



Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Efficiency (contd.)	of the project?	aid were effective and efficient? (See "Relevance.")				
		Project management such as regular meeting and Steering Committee contributed the efficiency of the project?	• Opinions of parties concerned	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Were local residents participative and has their cooperation contributed to the efficient implementation of the project?	• Activity record of the project • Opinions of parties concerned	• Project Progress Report • Project Annual Reports • local residents, C/P, JET and other stakeholders	• Literature Survey • Interview	
		How has the division of DCC affected the efficient implementation of the project?	• Activity record of the project • Opinions of parties concerned	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Were there any other promoting and hindering factors?		• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
Impact	Overall Goal is expected to be realized as planned?	Indicators of Overall Goals are expected to be realized? (See "Verification of the results.")	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results.")	
	What are the factors hindered and/or promoted the achievement of the Project Purpose?	Commitment to attainment of Clean Dhaka Master Plan from Dhaka City Corporation and other stakeholders is sustained. (Important Assumption)	• Ratio of the budget for waste management out of the total of DCC budget (change in time serious) • Commitment of other stakeholders	• Budget report of DCC • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Were there any other promoting and hindering factors?		• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	

Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Impact (contd.)	Achievements of Overall Goal would be realized by the achievements of the Project Purpose?	Cause and effect relationships between Overall Goal and Project Purpose are logical and relevant?	• Opinions of parties concerned	• Ex-ante Evaluation Report • C/P, JET and other stakeholders	• Literature Survey • Interview	
	Were/are there any other impacts and influences of the project?	Introduction of WBA has given any impact on the communities?	• Opinions of parties concerned	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Introduction of the new collection and transportation system has given any impact on PCSPs, drivers, cleaners, etc.?	• Opinions of parties concerned	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Improvement of O&M of landfill has given any impact on the surrounding environment?	• Opinions of parties concerned	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Is the satisfaction rate of local residents who have participated in the project activities high?	• Activity record of the project • Opinions of parties concerned	• Project Progress Report • Project Annual Reports • local residents, C/P, JET and other stakeholders	• Literature Survey • Interview	
		Is the satisfaction rate of local residents high for the improvement of DCC's SWM?	• Activity record of the project • Opinions of parties concerned	• Project Progress Report • Project Annual Reports • local residents, C/P, JET and other stakeholders	• Literature Survey • Interview	
		How has the division of DCC affected the achievement of Overall Goal and waste management of the city?	• Opinions of parties concerned	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Are there any other positive/negative impacts?	• Opinions of parties concerned	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	



Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Sustainability	The government will support DCC to sustain its activities, outputs and outcomes?	Commitment to attainment of Clean Dhaka Master Plan from DCC and other stakeholders is sustained? (See "Impact.")	(See "Impact.")	(See "Impact.")	See "Impact."	
	WMD is capable of continuing implementation of the SWM effectively and efficiently?	Management capacity of WMD is high enough to sustain its activities, outputs and outcomes?	<ul style="list-style-type: none"> <li>• Budget of WMD (change in time series)</li> <li>• Manpower supply and retention in WMD (change in time series)</li> <li>• Management capacity of WMD</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Maintenance and operation of equipment provided will be properly carried out by WMD in future?	<ul style="list-style-type: none"> <li>• Budget of WMD (change in time series)</li> <li>• Manpower supply and retention in WMD (change in time series)</li> <li>• Technical capability of WMD staff</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Budget for WMD including recurrent budget will be adequately prepared?	<ul style="list-style-type: none"> <li>• Budget plan of WMD</li> </ul>	<ul style="list-style-type: none"> <li>• WMD's budget plan document</li> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Has the organizational arrangement for financial management and budgeting of WMD been made?	<ul style="list-style-type: none"> <li>• Opinions of parties concerned</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		Cooperation of other stakeholders will be sustainable?	<ul style="list-style-type: none"> <li>• Opinions of parties concerned</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	
		How has the division of DCC affected the sustainability of the positive effects made by the project?	<ul style="list-style-type: none"> <li>• Opinions of parties concerned</li> </ul>	<ul style="list-style-type: none"> <li>• Project Progress Report</li> <li>• Project Annual Reports</li> <li>• C/P, JET and other stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>• Literature Survey</li> <li>• Interview</li> </ul>	

Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Contribution to M/P	Achievement of objectives of M/P	More than 3,054 ton/day of waste is collected and transported to landfill sites by 2015.	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results.")	
		More than 2,406 ton/day of waste is collected and transported to landfill sites by 2012.	(See "Verification of the results.")	(See "Verification of the results.")	See "Verification of the results.")	
		More than 3,032 ton/day of waste is disposed to landfill sites by 2015.	• Volume of waste disposed to landfill sites (change in time series)	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		More than 2,387 ton/day of waste is disposed to landfill sites by 2012.	• Volume of waste disposed to landfill sites (change in time series)	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		More than 672 ton/day of waste is recycled by 2015.	• Volume of waste recycled (change in time series)	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Unidentified disposal will be less than 920 ton/day by 2015.	• Volume of Unidentified disposal (change in time series)	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
		Contribution of other assistances such as JDCF, JOCV, grassroots grant aid and EGAP to the achievement of objectives of M/P	• Data of objectives (above) in time series • Years of implementations of other assistances • Opinions of parties concerned	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
	Implementation of priority projects and programs	Institutionalization of Ward Solid Waste Management System	• Activities record	• Project Progress Report • Project Annual Reports • C/P, JET and other stakeholders	• Literature Survey • Interview	
	Establishing a System of Approval and Monitoring of Primary Collection Service Providers	do.	do.	do.		



Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Contribution to M/P (contd.)		Supporting Primary Collection Service Providers	do.	do.	.do.	
		Initial Implementation of Ward Solid Waste Management System (20 Wards)	do.	do.	.do.	
		Organization of Bangladesh Solid Waste Management Conference	do.	do.	.do.	
		Increase of New Containers and Trucks	do.	do.	.do.	
		Increase of driver and truck cleaner	do.	do.	.do.	
		Formation of Chain of Management in SWM	do.	do.	.do.	
		Setting up Operation and Management Plan	do.	do.	.do.	
		Capacity Development of Workers	do.	do.	.do.	
		Improvement of Existing Matuail Dump Site	do.	do.	.do.	
		Securing Future Landfill Site	do.	do.	.do.	
		Closure of Berri Band Dump Site	do.	do.	.do.	
		Establishment of Management Organization for Final Disposal	do.	do.	.do.	
		Capacity Development of Disposal Section	do.	do.	.do.	
		Compliance with Environmental Conservation Act/ Rules and Preservation Act	do.	do.	.do.	
		Legal Training to DCC Staff	do.	do.	.do.	
		Enforcement of Section 150 against Illegal Garbage Throwing and Dumping	do.	do.	.do.	
	Preparation of Annual Operation Plan according to Master Plan	do.	do.	.do.		

Evaluation Criteria	Evaluation Questions		Data Required	Data Sources	Data Collection Methods	Note
	Primary Questions	Secondary Questions				
Contribution to M/P (contd.)		Improvement of Operational Organization	do.	do.	.do.	
		Reforming Organization for SWM	do.	do.	.do.	
		Training of DCC Staff for SWM	do.	do.	.do.	
		Modification of Accounting system to Exhibit Actual SWM Cost explicitly	do.	do.	.do.	
		Financing for Master Plan Implementation	do.	do.	.do.	
		Continuation of Pilot Project on Privatization with In-depth Evaluation	do.	do.	.do.	



## Annex 7: Interviewees List

No.	Name	Designation
1	Captain Bipan Kumar Saha	CWMO, DNCC
2	Captain Md. Anamul Haque	CWMO, DSCC
3	Mr. Md. Mesbajul Karim	Superintendent Engineer, DNCC
4	Mr. Abu Saleh Md. Main Uddin	Superintendent Engineer/ Additional CWMO, DSCC
5	Mr. Md. Ekramu Hoque Khondoker	Assistant Engineer (Mechanical), DNCC
6	Mr. Abul Hasnat Md. Ashraful Alam	Executive Engineer (Collection and Transportation), WMD, DNCC
7	Dr. Abdur Razzak	Executive Engineer (Disposal), WMD, DNCC
8	Mr. Mizanur Rahman	Budget Officer, DSCC
9	Md. Basudev Sarker	Conservancy Officer, Zone-5, DNCC
10	Md. Shahidul Islam	Conservancy Inspector, Ward 27, Zone 5, DNCC
11	Md. Masum Hossain	Conservancy Inspector, Ward 2, Zone 2, DNCC
12	Md. Habibur Rahman	Conservancy Inspector, Ward 11, Zone 4, DNCC
13	Md. Rafiul Hashan	Conservancy Inspector, Ward 2, Zone 2, DNCC
14	Md. Bengir Ahmed	Conservancy Inspector, Ward 29, Zone 5, DNCC
15	Md. Anowar Hassain	Conservancy Inspector, Ward 14, Zone 4, DNCC
16	Rokib Hasan	Conservancy Inspector, Ward 26, Zone5, DNCC
17	Md. Rabiullah	Conservancy Inspector, Ward 19, Zone 3, DNCC
18	Mr. Md. Monwar Hossain	Conservancy Officer, Zone-2, DSCC
19	Mr. Md. Nurul Hossain Khan	Conservancy Officer, Zone-5, DSCC
20	Mr. Abdul Motaleb	Conservancy Inspector, Ward-13, Zone-2, DSCC
21	Mr. Rashedur Rahman Rassel	Conservancy Inspector, Ward 21, Zone-1, DSCC
22	Mr. Md. Shafiqul Islam	Conservancy Inspector, Ward-33, Zone-3, DSCC
23	Mr. Md, Abu Jafar	Conservancy Inspector, Ward-15, Zone-1, DSCC
24	Mr. Md. Shah Kamal	Conservancy Inspector, Ward-27, Zone-3, DSCC
25	Mr. Bikash Chandra Dash	Conservancy Inspector, Ward-48, Zone-5, DSCC
26	Mr. Md, Hanif Uddin	Conservancy Inspector, Ward-19, Zone-1, DSCC
27	Mr. Abu Taher	Conservancy Inspector, Ward-40, Zone-5, DSCC
28	Drain Cleaners	DNCC, DSCC
29	Ward Cleaners	DNCC, DSCC
30	PCSPs	CUWG, DNCC, DSCC
31	Local Residents	CUWG, DNCC, DSCC

32	Mr. Akio Ishii	JET, Chief Advisor
33	Mr. Takatoshi Arai	JET, Deputy Chief Advisor
34	Ms. Ayumi Koyama	JET, Project Administrator
35	Mr. Satoshi Sakai	Senior Volunteer, JICA
36	Mr. Takashi Ikeda	Representative (Volunteer), JICA
37	Ms. Miyuki Oku	JOCV, JICA
38	Ms. Kudo	JOCV, JICA
39	Mr. Higashino	JOCV, JICA