

## TECHNICAL ASSISTANCE FOR PROJECT PREPARATION

### A. Justification

1. The transaction (project preparatory) technical assistance (TRTA) is required to
  - (i) ensure the proposed project complies with the Asian Development Bank (ADB) policy requirements including technical, economic and financial, procurement, governance, poverty, gender, environment and social safeguards;
  - (ii) provide support to the Ministry of Environment and Energy (MEE) to maximize project readiness and reduce start-up delays by undertaking advance contracting actions; and
  - (iii) assist MEE by working directly with the feasibility study team to streamline inputs into the project design and environmental impact assessment (EIA).

### B. Major Outputs and Activities

2. The major outputs and activities are summarized in Table A3.1.

**Table A3.1: Summary of Major Outputs and Activities**

Major Activities	Expected Completion Date	Major Outputs	Expected Completion Date
TA consultant mobilization	May 2017	DDRs	October 2017
Assist in feasibility studies and designs	August 2017	Feasibility studies and procurement plan	October 2017
Disclose draft EIA	September 2017	EIA	September 2017
Undertake due diligence (technical, safeguards, economic and financial, etc.)	September 2017	Resettlement framework, EARF, IEEs, resettlement plans/DDRs, financial /economic assessment reports, etc.	September 2017
Assist in advance contracting actions	September 2017	Draft RFP, bidding documents	December 2017
Grant processing and approval	January 2018	Approved RRP	June 2017

DDR = due diligence report, EARF = environmental assessment review framework, EIA = environmental impact assessment, IEE = initial environmental examination, RFP = request for proposal, RRP = report and recommendation of the President, TA = technical assistance.

Source: Asian Development Bank.

### C. Cost Estimate and Proposed Financing Arrangement

3. The technical assistance (TA) is financed on a grant basis from the ADB Technical Assistance Special Fund (TASF-VI). The government will provide counterpart support in the form of domestic transportation, provision of office space, and other in-kind contributions. The detailed cost estimate is presented in Table A3.2.

**Table A3.2: Cost Estimates and Financing Plan**  
(\$'000)

Item	Total Cost
<b>Asian Development Bank<sup>a</sup></b>	
1. Consultants	
a. Remuneration and per diem	
i. International consultants (21 person-months)	363.0
ii. National consultants (10 person-months)	85.0
b. International and local travel	100.0
c. Reports and communications	1.0
2. Workshops, training, seminars, and conferences	

Item	Total Cost
a. Facilitators	2.0
b. Training program	13.0
3. Surveys	3.0
4. Miscellaneous administration and support costs	3.0
5. Contingencies	30.0
<b>Total</b>	<b>600.0</b>

<sup>a</sup> Financed by the Asian Development Bank's Technical Assistance Special Fund (TASF-VI).  
Source: Asian Development Bank estimates.

#### D. Consulting Services

4. Eleven individuals (9 international consultants and 3 national consultants) providing 31 person-months of input will be engaged to undertake the technical assistance project. Table A3.3 summarizes the consulting services requirement for the individuals. The consultants will be recruited using Individual Consultants Selection method with lumpsum contracts. The consultants will be mobilized to help ADB adequately address the following aspects relating to the ensuing grant project and undertake the following tasks, among others: (i) detailed grant executing agency and implementing agency capacity assessment, and suggested remedial action plan to build executing agency and implementing agency capacity to minimize procurement and financial management risks; (ii) proposed or indicative grant related procurement plan with suggested level of priority or, if applicable, postreview based on executing agency and implementing agency capacity assessment; and (iii) indicative implementation schedule with proposed sequencing of consultant recruitment and procurement bidding and awarding.

**Table A3.3: Summary of Consulting Services Requirement**

Positions	Person-Months Required
<b>International</b>	
Solid Waste Management Specialist	3
Environmental Specialist	3
Information, Education, and Communication and Community Sanitation Specialist	2
Project Economist (Urban)	2
Financial Specialist	2
Urban Climate Change and Disaster Risk Reduction Specialist	3
Institutional Specialist (Municipal Solid Waste Management)	2
Procurement Specialist	3
Pool (To be determined)	1
<b>National</b>	
Environmental Engineer	5
Pool (To be determined)	3
Social Development and Gender Specialist	2

Source: Asian Development Bank estimates.

5. The outline terms of reference for the TRTA consultants are described in paras. 6 to 15.

6. **Solid Waste Management Specialist** (international, 3 person-months). Will be the lead technical specialist of the TRTA team. He or she will (i) review and guide the feasibility study, project scoping findings, and bidding documents prepared by MEE consultants; (ii) identify sustainable waste management solutions for the project considering economy and efficiency of implementation; (iii) provide technical inputs and quality control over project design, including institutional capacity building, and introduce international best practices; and (iv) support analysis of carbon emission reduction related to landfill or waste-to-energy components. Work experience of 15 years and postgraduate degree in engineering, planning, or related field preferred.

7. **Environmental Specialist** (international, 3 person-months). He/she will (i) guide government's EIA for purpose of clearances and permits and address all issues as per ADB's environmental requirements; (ii) prepare EIA in accordance with ADB's Safeguards Policy Statement, 2009; (iii) ensure that land reclamation and dredging avoid impacts to biodiversity, and WTE facility meets strict international emission standards; (iv) prepare a detailed environmental management plan to minimize and/or avoid environmental risks; (v) identify institutional capacity gaps in environmental monitoring and regulatory enforcement of relevant standards associated with the project; (vi) support institutional capacity building of the Environmental Protection Agency; (vii) ensure environmental measures are incorporated into relevant contracts, and support climate change measures in the design; and (viii) work closely with other members to prepare a project meeting ADB's funding requirements. Work experience of 15 years and postgraduate degree in environmental science, or related field preferred.

8. **Information, Education, and Communication (IEC) and Community Sanitation Specialist** (international, 2 person-months). Will design IEC and community sanitation components, engage in preproject community consultations, and prepare the Community Action and Participation Plan. Will work closely with the social development and gender specialist to incorporate good practices in other development partner community-based island waste management projects. Work experience of 15 years and postgraduate degree in communications, sociology, or related field preferred.

9. **Social Development and Gender Specialist** (national, 2 person-months). Will undertake social, poverty, and gender-related assessments in accordance with ADB guidelines. This will include undertaking gender analysis and collection of sex-disaggregated baseline data. The specialist will ascertain the labor distribution (sex disaggregated) at various stages of the waste management cycle and any informal recycling practices that are prevalent in the Greater Male area to identify project components that will have positive and negative impacts on women in particular. She or he will propose mitigation measures for any negative impacts on women arising from the project and suggest ways to improve women's livelihood through project interventions.<sup>1</sup> Work experience of 10 years and postgraduate degree in sociology or related field preferred.

10. **Project Economist (Urban)** (international, 2 person-months). Will lead economic assessment for the proposed project under the TRTA. He or she will work closely with the government, MEE feasibility consultants, and other members of the TRTA team to support and help prepare a project meeting ADB's funding requirements. He or she will conduct rigorous economic analysis in compliance with ADB requirements including the 10 Key Areas of Economic Analysis of Investment projects. Work experience of 15 years and postgraduate degree in economics preferred.

11. **Financial Specialist** (international, 2 person-months). He/she will (i) prepare and update project cost estimates and financing plan; (ii) conduct financial management assessment of the executing and implementing agencies; (iii) conduct financial viability evaluation of the project; (iv) conduct financial analysis and sustainability assessment of the executing and implementing agencies; (v) design funds flow and disbursement arrangements; (vi) design reporting and auditing arrangements; and (vii) design financial covenants and financial management action plan. He/she will conduct such work in accordance with ADB's technical guidance note (TGN) for Financial Management Assessment (2015), 2015 TGN for project financial reporting and auditing,

<sup>1</sup> For example, providing training and/or facilitating livelihood opportunities for women using recyclable wastes and providing training and employment (if feasible) in the operation and management of island community-based waste management centers. Terms of reference includes preparation of livelihood assistance development plan in collaboration with ICE specialist.

and the 2014 TGN for preparation of cost estimates. For all other issues not covered by these three TGNs, the 2005 publication *Financial Management and Analysis of Projects* should be referred to. Work experience of 15 years and postgraduate degree in business administration, finance, or related field, with professional accountancy or finance qualification such as a Chartered Accountant, Certified Public Accountant, or equivalent preferred.

12. **Urban Climate Change and Disaster Risk Reduction Specialist** (international, 3 person-months). Will integrate climate change and disaster risk reduction into project design. Also support analysis related to potential carbon emission reduction components including landfill closure and WTE facilities under the project. Expert to assess needs and other donor support for (i) climate change and natural hazard mapping, (ii) strategic environmental assessment, (iii) flood mapping, and (iv) greenhouse gas emissions reduction calculation with baseline. Work experience of 15 years and postgraduate in planning, engineering, or related field preferred.

13. **Institutional Specialist (Municipal Solid Waste Management)** (international, 2 person-months). Will lead the institutional assessment of Waste Management Corporation Limited (WAMCO), MEE, and island councils for the proposed project under the TRTA. Work experience of 15 years and postgraduate degree in public policy, planning, or related field preferred.

14. **Procurement Expert** (international, 3 person-months). He or she will (i) review and guide the feasibility study, project scoping findings, and bidding documents prepared by MEE consultants; (ii) assess procurement capacity and procurement system of executing and implementing agencies, and identify risks and capacity development requirements and mitigation measures; (iii) prepare a Procurement Plan following ADB procurement requirements; (iv) perform an assessment/survey for both international and national markets for competitive biddings; (v) provide hand-holding support and training to agencies and support project readiness for smooth start-up; and (vi) assess fraud and corruption risks. Work experience of 15 years and postgraduate degree in engineering or related field preferred.

15. **Environmental Engineer** (national, 5 person-months). The environmental engineer will be the local technical specialist of the technical assistance team. He/she will work closely with others and liaise with members of the TRTA team. Work experience of 15 years and postgraduate degree in civil or environmental engineering, or related field preferred.

## E. Implementation Arrangements

16. The Ministry of Finance and Treasury will be the executing agency. A project management unit consisting of officials from MEE and WAMCO will be set up under the MEE to coordinate project activities. The proposed TA processing and implementation schedule is listed in Table A3.4. The TA amount will be disbursed in accordance with the ADB *Technical Assistance Handbook* (2010, as amended from time to time).

**Table A3.4: Technical Assistance Processing and Implementation Schedule**

Major Milestones	Expected Completion Date
Project concept paper clearance	March 2017
Consultant mobilization	May 2017
Environmental impact assessment disclosure	September 2017
Due diligence reports finalization	September 2017
Project approval	January 2018
Technical assistance completion	March 2018

Source: Asian Development Bank.