

TERMS OF REFERENCE
LOW-EMISSION CAPACITY BUILDING (LECB) PROJECT- EGYPT
Mitigation Action Database
NATIONAL EXPERT ONLY

I. BACKGROUND

In accordance with the commitment of all parties to the UNFCCC to support climate change efforts at the national level, the LECB project will enable Egypt to strengthen national capacities to do the following: 1) Design a low-emission development strategy (LEDS); 2) Identify opportunities for Nationally Appropriate Mitigation Actions (NAMAs) in the context of national development; 3) Facilitate the design and adoption of mitigation actions by selected industries; and 4) Design systems for Measuring, Reporting, and Verifying (MRV) mitigation actions. The Project will target the Public and Private Sectors.

The project will, also, develop the capacity of experts and institutions in Egypt to respond to opportunities that have been identified for engaging Public Sector and Industry support and participation in addressing the issue of climate change. The Project seeks to build on various initiatives already developed by UNDP and partners.

II. OBJECTIVE

The objective of the ToR is to design a desktop (with friendly user interface)/web-based mitigation database using one of the powerful known database software (e.g. Microsoft SQL, Microsoft Access, ...etc) that includes the summary results of the prepared documents by LECB project as well as any other information relating to mitigation actions provided by stakeholders and/or national reports.

III. KEY INFORMATION/DATA FIELDS

This database shall include, but not limited to: -

1. Sector name;
2. Date of (Start/Finish) the study/mitigation action;
3. Description of the action
4. Consultant (Developer) name and his/her contacts details;
5. Name of the projects/programme;
6. Saving per project/programme (electrical energy, thermal/fuel energy, water, .. etc);
7. Potential GHG reduction (by type of gas if available);
8. Estimated investment and running costs;
9. Operation & maintenance requirements;
10. capacity building needs assessment;
11. Social and other co-benefits;
12. Replication opportunity (if relevant);
13. Has the sector/Egypt done similar project/programme? (yes/No);

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14. Brief on the existing or proposed MRV ;
15. Stakeholders and implementing agency of both the project/programme and MRV;
16. Status of the project/programme: ongoing implementation or completed or proposed. In case ongoing implementation or completed , please mention the year of start and/or completion, as relevant;
17. Proven or new technology with short description; and
18. Create some figures/table to summarize the database output in a formal presentation; and
19. Others parameters (based on the available documents)

IV. DOCUMENTS TO BE INCLUDED IN THE DATABASE

There are 10 Preliminary NAMA doc, 11 NINO documents and 6 full NAMA documents in addition to 4 Mitigation Action Plans in Industrial Sector studies. All these documents will be available to the consultant upon signing a Confidentiality Agreement.

NAMA Mapping in 10 Sectors

1. Power generation
2. Renewable Energy
3. Industry
4. Transport
5. Housing
6. Tourism
7. Oil & Gas
8. Agriculture
9. Waste
10. Irrigation & sanitation pumps

NINO Documents

1. Efficient lighting in governmental buildings
2. Energy efficiency in residential buildings
3. Efficient street lighting
4. Energy Efficiency in industry
5. Renewable energy in industry
6. Industrial processes in fertilizer/nitric acid industry
7. Waste to energy
8. Oil shale
9. Gas flaring
10. Sustainable transport
11. Bio-energy

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NAMA Documents

1. Waste to Energy with focus on Residual Dispose Fuel (RDF)
2. Improved Charcoal Kiln
3. River Freight Transport
4. Improved Boilers and Water Heating Systems for Industrial Sector
5. Energy efficiency and Renewable Energy in Industry
6. Solar Water Pumping

Mitigation Action Plans (MAP) in Industry

1. MAP in SEMADCO Fertilizer Co.
2. MAP in EHC Fertilizer Co.
3. MAP in Port-Saied Steel Co.
4. MAP in Alexandria Steel Co.

Other documents

1. NAMA Mapping quantification studies in energy, industry and transport
2. Low Emission Development Strategy Framework
3. Intended National Determined Contributions (INDCs)
4. Low Emission Development Strategy in Tourism

V. DELIVERABLES

The database must be designed to let the LECB project and other official users be able to hide some data from the Web Based Application. (Client /server Database, user permission, security level, off line can convert online easily).

Consultant must submit the database outline (that includes all parameters) to be discussed/approved before designing the draft database.

The consultant shall deliver: -

1. Outline of the database;
2. Draft Database
3. Final Database
4. Presentation

VI. CONFIDENTIALITY AGREEMENT

The consultant will sign a confidentiality agreement to not to release all/part of the available documents.

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VII. QUALIFICATIONS

- Advanced degree in areas relevant to Information Technology (IT), experience with climate change, environment and national development is preferable;
- Good knowledge of global and national climate change issues
- A minimum of 5 years of professional experience in IT and database designing ;
- Good interpersonal/communication skills; and
- Good oral and written communication skills.

VIII. DURATION

The duration of conducting the assignment is 30 working days to be implemented in 50 days.
The assignment is expected to start in 1.May and end in 20.Jun

IX. DEADLINES

Deliverables to be submitted by consultant/s to LECB according to the following deadlines;

- Outline of the database two weeks from contracting date
- Draft Database 40 days from receiving comments on outline
- Final database & presentation 50 days from receiving comments on First Draft

Offers (technical and financial) to be sent to

Dr. Samir Tantawi,
Project Manager, LECB-Egypt
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