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For PSC # 7 - 7. November 2007

**URBAN ENVIRONMENT
MANAGEMENT PROGRAMME**

**Short Term Technical Assignments
Facility**

**Progress Report
2006 to Oct. 2007**

Annex 2

STTA - UEMP Assignment Descriptions

- Short Term Technical Assignments (STTA) of the Urban Environmental Management Programme (UEMP)

Introduction

The Short Term Technical Assignment facility of the UEM Programme is a short cut to the procurement of Technical Expertise.

This facility is available to the Programme partners, who can request a procurement to be executed by the PSC Secretariat and funded by the programme (not affecting the “on budget support”, i.e. the core funding of the partner.

This document, which is Annex 2 to the Progress Report for this facility, provides a short description of each assignment of the Short Term Technical Assignment facility of the Urban Environmental Management Programme. It includes projects already successfully executed, in execution or in the immediate pipeline (some of these).

For the exact status of each project, kindly refer to Annex 1, which is a table showing the actual status of each project..

For more specifics, please refer to Terms of Reference, Products, Completion reports and Press Releases, all available for each project, either on the Programmes web site, www.uemp.org.za or via the PSC Secretariat, ble@deat.gov.za. You may also contact the relevant colleague in the partner administration.

The descriptions appear in two sections, one for Municipal assignments and one for National and Provincial assignments. They appear in the order of file number (M-01, M-02,... resp. N-01, N-02...).

Municipal assignments

M-01-2006: Refinery Flaring - SA standards & benchmarking. eThekweni (Siva Chetty)

This project will produce a technical scheme for the monitoring all flares of refineries with regard to time, incidents, air pollution, cumulated air pollution etc., etc. With SA adaptation the scheme will be in line with and of the same quality as the prime standards of the EU, the USA and Canada.

While this project will establish the technical scheme proper, implementing it will require further initiatives from RSA governments (3 spheres). These required initiatives are political, budgetary and management initiatives.

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The project is executed by eThekwini in collaboration with a working group of eThekwini, Cape Town, Sedibeng, Johannesburg and DEAT.

M-02-2006: Catalogue of Renewable Energy options eThekwini (Jessica Ridge) Completed: September 2007

The project provided a catalogue of the technologies of renewable energy including assessments of their applicability in the eThekwini metro area, including the most relevant action plans will be drawn up. All of this tailor made for eThekwini.

Nationally, RSA, though the white paper of the RE has committed to high ambitions: To increase its share of the energy provision from 1 to 4 % (4 times) in 10 years. The success indicator for this project is that, based on the catalogue, eThekwini municipality will deliver well above this national target. The catalogue will be a part of the E-strategy being developed for eThekwini.

M-03-2006: LA-21 catalogue, tailor made for the City Municipality Ekurhuleni (Mandla Sithole, Oupa Mosia) (Awaits the project M-06 – see below).

ToR available (July 2007) for a project/ process to consult with stakeholders in the M administration etc. and provide the document with a 5 (or 10) year prioritized action plan for an overall LA21 correct management and development of the Municipality.

The project is currently on hold, awaiting the completion of M-06

M-04-2006: Air emission and modeling JBG (Lunelle Serobatse)

While the city of Johannesburg has invested in hardware and software for air quality monitoring and modeling of international standard, the staff does not have the training in this. Training is provided in two sessions from Cambridge Environment Research Institute in London (who has developed the software).

The assignment is enabling the City administration to produce, in house, air pollutions scenarios in relation to planning solutions. These will be of international standard, and comparable with other cities of RSA and in the world which uses similar software and methodologies.

M-05-2006: Environmental Retreat - Expert drafting of proceedings SED (Lizette Venter) Completed: July 2007

Sedibeng is a district municipality comprising 3 very different municipalities. Environmental management includes a great many responsibilities, distributed between the DM and the 3 M. In addition Sedibeng is a national high priority area and the focus for inter-

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ventions from DEAT on air pollution, EMF etc. No comprehensive strategy for the prioritization and execution of these responsibilities is in place to date.

Sedibeng took the initiative of a 2 d. WS with massive participation from the parties, including DEAT to flesh out the opportunities and to scope such a comprehensive plan. The assignment provided proceedings produced by an expert in the field, and can be used for a formal platform for further materialization of the plan. The drafting of the proceedings was assigned to experts from the School of Environmental Sciences and Development, North West University in RSA.

M-06-2007: Organizational structure of the Environmental Department Ekurhuleni (Mandla Sithole – Oupa Mosia)

After the Municipal election of 2005 the Municipality of Ekurhuleni embarked on a restructuring of the entire administration. One outcome so far is the formation of the new Environmental Department out of 4 previous directorates. The new department has a staff of some 5000.

The Department has embarked on setting up the (new) structure, based on the strategic needs and requirements to the department, the capacities and resources brought together, etc. In this assignment an international and a South African organizational specialist analyze the needs. They will set up proposals for the structure, and for principal job descriptions as well as for a plan of implementation and staff development.

M-07-2007: Energy Poverty Catalogue City of Cape Town (Craig Haskins)

The region of Cape Town Western Cape is by at large provided with electricity from one provider. This makes it technically feasible to set up schemes for consumption and payment for electricity, by which unnecessary and excessive overspending is taxed, and the achieved revenue recycled into energy saving measures directed at the poor.

Such schemes work in other parts of the world. International consultants will adapt these to RSA conditions and priorities. Schemes are of general interest as a fiscal tool for the promotion of better environment, health and social equality. The project will be hosted by CT in dialogue with interested partners, including, WC and DEAT.

M-08-2007: Air Pollution, Ferro Industry City of eThekweni (Siva Chetty) Draft for ToR further process (Oct 2007)

M-09-2007: Animals in townships City of Cape Town (Jacobus Scippers)

Many problems are experienced with the informal keeping of animals, in particular horses kept in backyards of residences causing health hazards. The other side of the coin

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is that the poor people depend on their animals, horses, donkeys, goats for necessary incomes and livelihood.

The City finds it necessary to quantify the problems, draft of a City wide and a set of recommendations to a City Task Team for this issue. This will be the aim of the project.

National and Provincial Assignments

N-01-2006: Industrial Process Engineer

DEAT-Air (Kelebigile Moroka, Peter Lukey)

N-02-2006 Toxicologist and Epidemiologist

DEAT-Air (Kelebigile Moroka, Peter Lukey)

In the national Department of Environmental Affairs and Tourism there are still gaps in knowledge and capacity in these two fields, in which new legislation and regulation will be crucial in the future.

The solution provided by these *two* parallel assignments is a capacity transfer from the international community of expertise into permanent advisor positions DEAT. Plans and budgets in place for a permanent technical advisor position in each of the fields. The knowledge transfer from abroad will come through by the foreign technical assistance in three sub tasks:

- Definition of the permanent position in DEAT
- Selection of the best qualified candidate
- Introduction and “mentorship” to the candidate in the first period of employment.

N-03-2006 WASTE MANAGEMENT BILL International Benchmarking

N-03a-2006 Extension

DEAT- Waste (Tinus Joubert, Zanele Music)

N-04-2006 WASTE MANAGEMENT BILL - Documentation of WMB

N-04a-2006 Extension

DEAT- Waste (Tinus Joubert, Zanele Music)

N-05-2006 WASTE MANAGEMENT BILL - Pricing of the Bill

DEAT- Waste (Tinus Joubert, Zanele Mvusi)

Completed: July 2007 (all three)

In the preparation of the Waste Management Bill these STTAs were mobilized to provide

N-03: Standards, benchmarking and other international technical inputs

N-04: Document and process the public participation procedure of the Bill

N-05: Financial overview of the costs and the distribution of costs between spheres of government and other stakeholders

Consultants from South Africa (N-04 and N-05) and international consultants (N-03) have provided these inputs which have contributed to the Waste Management Bill. The bill was later (July 2007) endorsed by the South African Cabinet and is on its way to the process by the Parliament. See also **N-10**

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**N-06-2006: UEMP - Website – Establishment + Year 1
DEAT-EQP (Ranjini Pillay - Bo Leth-Espensen)**

The web site is a Short term Technical assignment provided by an IT information company in collaboration with the International Programme Advisor.

The Web site is a face of the programme to the public and a working tool of the partners. It includes, inter alia:

- Presentations/descriptions of the Urban Environmental Management Programme, of the 10 partners, of the current and upcoming activities, the STTA facility, the knowledge sharing components, etc.
- Electronic archives of all documents produced by or having direct relation to the programme. Including a database of CVs of technical experts for the partners to engage via the programme.

Since 1 August 2007 the site can be visited on www.uemp.org.za. The user name is 'uemp' and there is a password. This is in order to give partners the opportunity to proof read and make their suggestions, e. g. using the feed back facilities for this. The site will be opened to the public shortly.

**N-07-2007: DEAT-EQP (Ranjini Pillay-Joanne Yawitch)
Greening of stadia, 2010**

Following dialogue with FIFAs South African Organizational Committee, DEAT has embarked on offering a complete environmental screening of each of the 12 stadia which have been identified for the Soccer World Cup of 2010. The offer is since June 2007 extended to each stadium authority.

The screening will be conducted by a team of environmental architects and constructors, according to the prime standards of RSA and the World. All activities will happen in collaboration with the relevant staff of each stadia and aim to supplement and enhance the greening activities already in process or in the pipeline. Outputs include financial analysis and suggested plans for implementation.

In the UEMP, PSC (#5) made a special budget allocation for this undertaking, and the PSC Secretariat has subsequently been in dialogue with all stadia authorities, facilitating the idea and collecting buy-ins to the offer. eThekweni, Cape Town (2 stadia) and Bafo-keng have accepted the offer and more are expected to follow.

**N-08-2007 Green accounts
DEAT, International Co-operation (Vinny Pillay, Judy Beaumont)**

The National Treasury of South Africa has recently developed a draft policy paper, entitled, "a framework for considering market-based instruments to support environmental fiscal reform in South Africa". The aim of this paper is to outline the role that market-based instruments, specifically environmentally-related taxes and charges, *could* play in

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supporting sustainable development in South Africa, and to outline a framework for their potential application.

This project is a desk top study which aims to

- Review existing environmentally related policies and research conducted by national authorities and identify specific priority areas for South Africa
- Collate and assess existing economic valuation literature relevant to South Africa; and identify gaps in literature to further support the need to address environmental concerns identified above.

N-09-2007 Health Care Waste Specialist DEAT, Waste (Kelello Ntoampe)

Since the last surveys of Health Care Waste were made in 2005, the capacity of each province has changed, presumably diminished considerably, leading to dumping and other illegal and hazardous (to human health etc.) procedures, countrywide.

The project will produce a report with an updated **survey of Generation Rate, Treatment Capacity and Minimal Cost for Treatment of Health Care Waste in South Africa**. This input will contribute to inform the decision whether DEAT should conduct a feasibility study for a HCW public private partnership.

N-10-2007 Legal specialist, Waste Management Bill DEAT, Waste (Obed Baloyi)

While DEAT has delivered the final version of the Bill in May 2007 and the bill was later approved by cabinet, a number of additional legislative measures need to be conducted in collaboration between DEAT and the office of the Chief state Law Advisors (CSLA). Furthermore, legislative work is needed for the development of Waste Information and Health Care Risk Waste Regulation in relation to the bill.

The assignment provides for these legal specialist measures.

N-11-2007 Tender and costing: Obsolete pesticides DEAT Waste (Dee Fisher)

(In the Pipeline)

DEAT plans to set up a country wide clean up operation for obsolete pesticides. This project is expected to provide the following steps towards this:

- The document for international/South African tender of this service
- A framework for DEATs assessment of qualities and prices of incoming bids
- Training of DEAT staff in the drafting of these two types of documents and in the international tender process as such

N-12P-2007 Technical inputs to form an EMF for the Port of uMhlathuze KZN Province (Spume Novele and Christian Tham)

(In the Pipeline)

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The Port of uMhlathuze (Richards Bay) is expected to grow tremendously over the next decades, perhaps to become the major port of the RSA, after the port of eThekweni (Durban) will be extended to the limits possible in few years from now. At the same time the area makes up the Umhlathuze Estuary and the Lake Nsese one of the finest habitats of the country. Informed and intelligent strategic decisions are to be made and subsequent planning to be carried out to make the best of this.

An Environmental Management Framework will be produced over the next budget years, in collaboration between the Province, the city and stakeholders, such as the Port and the national Port authority. This is supported by the UEMP via on-budget support. In addition, to get this exercise off the ground in a good way this project will make the technical (EMF, planning etc) expertise available to the Province and the process.

N-13P-2007 Revision of the KZN Guidelines for the Development of Municipal Integrated Waste Management Plans

KZN (Dr. Shauna Costley)

(In the Pipeline)

The existing guidelines are from 2003. With the Upcoming National Waste Management Bill they need to be amended to incorporate the provisions of new bill. Amongst other things the review of the guidelines will ensure a more updated approach to 3Rs (reduce, re-use and re-cycle). Also the reviewed guideline will be more user-friendly taking into account the current capacity of the municipalities in KZN.