



**water & sanitation**  
Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

**MEDIUM TERM WORK PLAN**

on

**TECHNICAL COOPERATION IN THE FIELD OF SUSTAINABLE WATER  
INTEGRATED MANAGEMENT IN RESPONSE TO CLIMATE CHANGE  
ADAPTATION AND CLIMATE RESILIENCE**

between

**THE MINISTRY FOR THE ENVIRONMENT, LAND AND SEA  
OF THE REPUBLIC OF ITALY**

and

**THE DEPARTMENT OF WATER AND SANITATION  
OF THE REPUBLIC OF SOUTH AFRICA**

*Handwritten signature or initials*

Following the Memorandum of Understanding (MoU) signed in Johannesburg, on 18<sup>th</sup> October 2016, between the Ministry for the Environment, Land and Sea of the Republic of Italy and the Department of Water and Sanitation of the Republic of South Africa, the Parties agree to implement the following medium term Work Plan.

### **Objectives**

The objectives of the present medium term Work Plan are to identify and select activities that correspond to the general objectives of the MoU that are to:

- (a) strengthen and coordinate the efforts of adaptation to climate change and address its adverse effects;
- (b) promote measures and techniques aimed at enhancing the regional and local resilience in both countries cooperating on the sustainability and the efficiency of water resources;
- (c) develop activities and projects aimed at reducing climate change vulnerability through the provision of sustainable and integrated water management initiatives; and
- (d) facilitate cooperation at a sub-national and regional level with public territorial entities from both countries to address the main topics such as education and training, research, development and innovation, technologies and techniques in the field of the water quality enhancement, water resource management, water service management, on-site and off-site and rural sanitation technology, especially in affected remote areas and wherever the water-energy-food nexus is concerned.

The intention is to make a substantial contribution to the implementation of both adaptation and mitigation actions, to properly address and manage the current and future impacts of climate change in South Africa.

In accordance with Paragraph 4.(3) of the aforementioned MoU, in the implementation of the coming projects and activities, consideration will be given to the participation of the public, private and no-profit sectors and, where appropriate, universities, scientific and technical research bodies and non-governmental organizations, as well as Institutions coming from Italy and South Africa.

### **Description of Activities**

This Work Plan aims to focus on sustainable Water Integrated Management through the following main sectors of intervention:

1. Governance;
2. Capacity Building;
3. Pilot projects and initiatives.



## 1. Governance

The objective is to deepen the knowledge about the Water System in SA, including the Regulatory Framework of the water resources management.

To this end, cooperation will be focused on the following possible activities:

- reduction of the effects of drought and water scarcity by increasing the efficiency of both supply and demand side measures;
- improvement of water management by increasing resilience of new and existing critical water infrastructure;
- strengthening of institutional settings by fine tuning the legislative and regulatory framework.

The action will be performed through the elaboration of an Environmental Performance Review for the whole Water Sector in SA.

## 2. Capacity Building

The increased knowledge of the Water System in SA will identify the need for training at different levels of government of the resource hierarchy, agreeing with the DWS specific training programs by providing mutual thematic and periodic missions in both countries.

The activities will include the following:

- training and know-how transfer through the involvement of central and local competent authorities, scientific institutions, academia, and key actors in the field of water management;
- development of educational programmes in the field of integrated water management system;
- study visits in selected sites in South Africa and Europe.

## 3. Pilot projects and initiatives

A number of long-term pilot projects will be selected in order to assess the applicability and the effectiveness of the strategies taken into account, involving operators and institutions of both countries.

The activities will include the following:

- drafting of a *Pilot River Basin Management Plan* in a selected sensitive catchment to enhance, protect and monitor the qualitative and quantitative status of surface and ground water bodies;
- implementation of the *Integrated Water Cycle Management* approach in a selected area where all water service segments, from the abstraction to the discharge, are operated in a coordinated way, according to the "water value chain" concept;
- design and implementation of a demonstration project selecting solutions for the sustainable management of groundwater, including artificial recharge strategies (MAR);
- design and implementation of a pilot treatment plant for urban waste water reuse;

- implementation of a demonstration project to improve sanitary conditions and water availability in a selected informal settlement throughout sustainable sanitation solutions;
- design and implementation of pilot plant for acid mine drainage water treatment.

### **Implementation**

Each funded activity will include a budget for missions and travels, that will cover also travel expenses of both sides experts and officials, according to the UN regulations.

### **Entry into force**

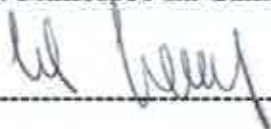
This mid-term Work Plan will come into force after signature by the Parties.

This mid-term Work Plan is agreed and signed in Pretoria on 21<sup>st</sup> October 2016 in English.

**For the Ministry for the Environment, Land  
and Sea of the Republic of Italy**

– **Director General**

**Dr. Francesco La Camera**



---

**For the Department of Water and  
Sanitation of the Republic of South Africa**

– **Director General**

**Mr. Sifiso Mkhize**



---