



PROJECT NUMBER: 154169

APPOINTMENT OF SERVICE PROVIDER TO REVIEW CLIMATE
CHANGE RESPONSE (ADAPTATION AND MITIGATION)
STRATEGY AND IMPLIMENTATION PLAN FOR NKANGALA
DISTRICT MUNICIPALITY

NKANGALA DISTRICT MUNICIPALITY



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SCOPE OF WORK

PURPOSE

Nkangala District Municipality intends to appoint Service provider to review Climate Change Response (Adaptation and Mitigation) Strategy and Implementation Plan for Nkangala District Municipality which is currently outdated. The review of the strategy must be done and completed in this current financial year (2023/2024) with the approval of the strategy by Nkangala District Municipal Council and adopted by six (06) local municipalities Council and DARDLEA MEC in the province. The Strategy must align with the Integrated Development Plan (IDP) of Nkangala District, National, Provincial, and Local Climate Change Frameworks as outline, meaning the service provider should make use of the plans and frameworks when reviewing the strategy.

DETAILED SPECIFICATION

In 2012 the Nkangala District Municipality developed a district climate response strategy, to respond to the effect and impact of climate change by reducing climate risk vulnerabilities and the greenhouse emissions to build climate resilient society and economy. Again in 2017 National DFFE (former DEA) in collaboration with SALGA and Mpumalanga province developed district climate change risk and vulnerability assessment and response report, looking at high level sectors which calls for the development of specific municipal risks and vulnerabilities to be developed. The duties to be performed by the Service Provider are to review the Climate



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Change Response Strategy of the Nkangala District Municipality to align with the National and Provincial Climate Change frameworks and considering international agreements and commitments. All climate change indicators in terms of vulnerability, adaptation, mitigation, implementation plan and any other related services such as mainstreaming of climate change into municipal sector plans of the district and local municipalities must be reviewed.

The Nkangala District Municipality are governed by the following Integrated Development Plan (IDP) components that are affected by climate change and Just Transition, namely:

- Basic Service Delivery and Infrastructure
- Financial Management and Viability
- Municipal Institutional Transformation and Development
- Local Economic Development
- Good Governance and Public Participation
- Spatial Rationale
- Basic Service Delivery

BACKGROUND & CONTEXT

Climate change is already happening which calls for all climate actors to develop responses and interventions to realize the importance of livelihood and saving the humanity. South Africa is extremely vulnerable and exposed to the impacts of climate change due to its socio-economic and environmental context. Climate variability, including the increased frequency and intensity of extreme weather events. Mpumalanga province has already developed the climate change adaptation and mitigation strategies.

The provincial policies were developed in response to National Climate Change Response Policy (NCCRP White Paper 2011) for an effective climate change response and the long-term, just transition to a climate-resilient and lower-carbon economy and society and the policy outlines two objectives:

- Effectively manage inevitable climate change impacts through interventions that build and sustain South Africa's social, economic and environmental resilience and emergency response capacity.
- Make a fair contribution to the global effort to stabilize greenhouse gas (GHG) concentrations in the atmosphere at a level that avoids dangerous anthropogenic interference with the climate system within a timeframe that enables economic, social and environmental development to proceed in a sustainable manner.



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Furthermore, supported by National Climate Change Bill to enable the development of an effective climate change response and a long-term, just transition to a low-carbon and climate-resilient economy and society for South Africa in the context of sustainable development.

OBJECTIVES

Conduct a comprehensive review of climate change response (adaptation and mitigation) strategy and implementation plan for Nkangala District Municipality.

The appointed service provider will be expected to carry out the following functions to ensure the achievement of the objective:

- Develop Climate Change Risk and Vulnerability Assessments for the short- and medium term (i.e., from 2020 to 2050) with focus mainly on municipal sectors and relevant subsectors;
- Develop District GHG Inventories (in line with the National and provincial Inventories) and integrate greenhouse gas profiles in each municipality. For municipalities with no GHG emissions and removals profile, compile a comprehensive GHG inventory and highlight gaps and areas of improvement.
- Review existing Climate Change Response Strategy and develop Implementation Plans in each municipality, examine best practices and case studies, identify effective strategies for resilience, mitigation and preparedness (including early warning systems and disaster management), develop practical climate change responses with recommended appropriate implementation actions in each municipality;
- Develop the skill development plan (such as to build capacity, training, capabilities and knowledge-transfer) throughout the process so as to enhance implementation of the prioritized adaptation and mitigation options.
- Develop stakeholder engagement plan on how the climate actors such as private sector, government, civil society, academia, traditional leaders/faith-based organizations, researchers, communities be consulted, share information for appropriate and implementable actions.

The technical expert will carry out the following key tasks for the District Municipality through a participatory and consultative approach: The table below depicts the envisaged phased process to complete the assignment (All the phases should include both Adaptation and Mitigation components)

The service provider is required to:

Activity 1: Project inception

- Inception meeting conducted.
- Establishment of committees such as Project Steering Committee (PSC).
- Prepare stakeholder engagement plan in line with effective and inclusive approaches for review and approval by the Project Steering Committee.

Deliverables: Inception report; stakeholder engagement plan.



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Activity 2: Baseline review/assessment of adaptation and mitigation background documentation and identification of gaps, including:

- Conduct a baseline review and analysis of key climate-related documents (policies, strategies, action plans, programmes, projects and activities, and etc.), institutional capacity and organizational arrangements for different sectors;
- Conduct climate scenario analysis and projections. Review existing information on key weather elements including rainfall, and temperature over a select period of time. Identify the prevailing climate change hazards, their associated impacts on sectors and communities.
- Engage key stakeholders from different sectors to identify broader climate change issues.
- Assess the information gaps, evaluate and map the district and local municipality's situation with regard to climate change mitigation and adaptation.

Deliverables: Baseline Review & Analysis report/s.

Activity 3: Assessment and prioritisation of climate change risks and vulnerabilities, including:

- Vulnerability assessment and risk assessment: Short term to medium-term Climate Change Vulnerability Assessment and Mapping
- Identify broader climate change issues and projections further, review existing and past climate change interventions at national, provincial and local level.
- Assess climate change profiles and vulnerability scenarios for systems/sectors and communities in the district and its local municipalities.
- Identify the prevailing climate change hazards, their associated impacts on sectors and community livelihood as well as the most targeted and vulnerable groups (such as gender, persons with disabilities and older persons).
- Analyse the exposure and sensitivity of sectors and community livelihood as well as the most affected groups, etc.
- Assess current coping mechanisms and overall adaptive capacity and their extent of effectiveness to develop a vulnerability profile of the communities
- Develop vulnerability index of each municipality in the district using a set of selected biophysical and socio- economic indicators to reflect exposure, sensitivity, and adaptive capacity of sectors and populations at local level.

Deliverables: Vulnerabilities and climate change risk assessment and prioritization report/s

Activity 4: Assessment of GHG emissions sources, sinks and removals (GHG emissions inventories)

- Assess the GHG emissions inventory for district and local municipalities.
- Develop district GHG Inventory report
- Mitigation GHG emissions and removals profiles and potentials.



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- Profile main sources and sinks of greenhouse gases in the district and develop a comprehensive greenhouse gases emissions inventory and highlight data gaps;
- Identify the activity data needed to estimate GHG emissions for 2004 - 2014 and 2004 – 2021 consistent with latest available National GHG Inventory Report;
- Identify the appropriate data sources and references for the collection of the activity data, emission factors and other parameters required. Document any assumption made for this purpose while ensuring consistency with the data and methodologies for the latest available national GHG inventory Report.
- Provide an interpretation of the results with the identification of main drivers and underlying factors driving the trend.
- Apply a QA/QC plan and undertake uncertainty assessment following the established guidelines, conduct Mitigation Potential Analysis with the view to identify mitigation options for key economic sectors and communities.
- Development of Climate Change Response Strategy and Implementation Plan (including both adaptation and mitigation)
- Based on the outcomes of the district GHG emissions and removals profiles, climate change mitigation potential analysis, propose implementation plan for the district to achieve climate change mitigation outcomes.

Deliverable: District GHG emissions inventory report.

Activity 5: Draft Climate Change Response (Mitigation and adaptation) strategy and implementation plan.

Activity 6: Final Climate Change Response (Mitigation and adaptation) strategy and implementation plan.

The service provider is required to:

1. Set up a project management team to develop and manage the project and to ensure a skills transfer between the Service Provider, District and local officials.
2. Conduct all relevant research and analysis required to complete assignment.
3. Liaise with the project steering committee and various stakeholders in where necessary to gather information, present findings and to get guidance on project progress. All project steering meetings will take place in provinces unless agreed by all parties otherwise.
4. Engage with stakeholders in a way that encourages information exchange, enables collaborative decision making, and fosters buy in through transparency.

ADAPTATION SPECIFIC REQUIREMENTS

- a) Review Climate Risk and Vulnerability Assessment with respect to alignment with the following:
- b) National Climate Change Risk and Vulnerability Framework (NRVF);



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- c) Projected and observed (where possible) data available, including trends, other documented data by the district, South African Weather Services, South African Risk and Vulnerability Atlas etc.
- d) Climate Change Scenarios and sector impact studies from Long Term Adaptation Strategies (LTAS) phase 1&2;
- e) Climate Risk Profiles as outlined in the Green book;
- f) Current Provincial and District Climate Change Adaptation Response Plans.

Based on risk and vulnerabilities above:

- a) Assess current adaptive capacity such as plans, institutional arrangements, resources (human resources, funding, etc.).
- b) Compile a risk and adaptation profile that describes the climate vulnerability in the short term to medium term for the areas identified above, adaptive capacity, adaptation strategies and tools to prioritise and select adaptation options as consistent with the NRVF but elevate district specific issues.

MITIGATION SPECIFIC REQUIREMENTS

- a) Revise and compile each province context Greenhouse Gas emissions from sources and removals from sinks/GHG emissions and removals profiles, covering all the mitigation sectors (and district relevant subsectors) that are in the existing (where available or new where not available) provincial GHG Emissions Inventories and updating should be consistent with the latest available national GHG Inventory Report. The district GHG emissions and removals profiles will make use of the most up to date data and information, in cases of data gaps, these should be highlighted and recommendations of approaches to collect data for this purpose included in the report.
- b) Consider current Air Quality Management Plan available in the district and municipalities as well as other available documents that relates to the identified sectors for mitigation plans.
- c) For the Agriculture, Forestry and Other Land Use (AFOLU) sector, the service provider should make use of existing data and research of the National Terrestrial Carbon Sinks Assessments and data and resources contained in the National Terrestrial Carbon Sinks Atlas as consistent with the national GHG inventory.

ADAPTATION AND MITIGATION INTEGRATED REQUIREMENTS

Review and compile district specific context with respect to alignment with the following:

- a) IPCC 1.5 degrees' report and the AR5 report;
- b) The Global Climate Change issues – climate information, forecasts models etc. As per IPCC reports (specifics to be determined at inception meeting)
- c) National Climate Change Bill of 2011;
- d) National and Province green economy strategies and plans;
- e) National and Province climate change plan;
- f) Let's Respond Toolkit and Guideline.



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