

INTRODUCTION

Environment Agency – Abu Dhabi's (EAD) requires the services of a consultant to create an “Abu Dhabi Odorous Gases Monitoring Network”. This consultant is expected to install operate and maintain fixed and mobile odorous gases detecting devices to provide continuous real-time monitoring data and odorous gases tracking in areas near odor-generating facilities and activities.

The expected outcomes of this project are:

- Propose an innovative ideas, technologies and technique to measure, monitor and manage odour in Abu Dhabi Emirate.
- Purchase, install, operate and maintain EAD fixed and mobile odorous gases detecting devices network, these devices should be accurate odour monitoring equipment specially developed to monitor critical toxic and hazardous odour parameters;
- Develop a comprehensive odour management and information dissemination solution (system) for use in supporting EAD's environmental regulatory compliance and emergency response programs;
- Provide EAD and the government with continuous, accurate and reliable “real-time” odour and meteorological monitoring data at a high capture rate;
- Provide EAD and the government with a monitoring system can act as an alarm system in cases of accidental releases of odour pollutants;
- Measure and report odourful parameters like Sulfur Dioxide (SO₂), Hydrogen sulphide (H₂S), Ammonia (NH₃), Methyl Mercaptan, TVOC (Benzene, Toluene, Xylene), Formaldehyde (CH₂O), Nitrogen Dioxide (NO₂), Chlorine (Cl₂)..etc.
- Measure meteorological parameters like wind speed, wind direction, temperature and humidity to serve the monitoring network;
- Proper identification of odour sources and the implementation of appropriate mitigation control strategies as part of EAD's regulatory compliance program to reduce the impacts from these sources:
 - Landfills;
 - Waste Transfer Stations;
 - Sewage Treatment Plant;
 - Agriculture;
 - Animal By-Products Processing and livestock farms;
 - Composting Facilities;
 - Food and Drink Industry;
 - Oil and Gas Activities;

Scope Brief

Abu Dhabi Odorous Gases Monitoring Network

- Chemical Facilities;
- Others.
- reduce nuisance complaints from the public;
- assess and evaluate the effectiveness of odour abatement;
- conduct a measurement of odour emissions across all types of industry;
- conduct an odour plume dispersion and odour source backtrack when will be requested;
- assist EAD to set an odour standard that comply with the national and international technical and quality standards;
- visit the key polluting facilities in Abu Dhabi Emirate to assess the current satiation and plan for needed action plan;
- establish odour monitoring and management framework;
- develop technical resources related to odour monitoring and management (SOP, guidelines, protocols, training material, etc.);
- training and capacity building of staff;
- develop, enhance and adapt core odour input datasets;
- develop professional reports - monitoring outputs; status reports; progress reports, etc.;
- perform continuous QA/QC at the different stages and processes.

IMPLEMENTATION

For the successful implementation of this scope of work, the following requirements should be considered:

- The company/consultant should have 10 years' experience in similar projects;
- The company/consultant have previous experience with similar projects for a minimum of 10 projects;
- Individual experts in the company/ consultant should have experience of 10 years or more;
- The company/consultant should have sufficient manpower and resources available to carry out this work.

TIME FRAME

- The duration of this project will be 5 years