



HOUT BAY HARBOUR REPAIR

PROJECT AND PROGRAMME MANAGEMENT

ENGINEERING PERSPECTIVE

Different schools of thought adopt different roles for the project and programme manager. Virtual Consulting Engineers believes that projects in the built environment cannot be managed from textbooks alone. Contingency and surprise are the attributes of all projects that demand a dexterous approach to:

- Risk management
- Procurement management
- Scope and integration management
- Time, cost and quality management
- Human resources, communications and stakeholder management
- Occupational health and safety management
- Environmental impact management

These management areas can only be navigated successfully with the balance obtained from a deep understanding of the project's technical content.



PROFESSIONAL SERVICES

Our project and programme managers are experienced in construction monitoring and contract administration. The insights gained from years on site bring foresight to the first stage of the project. Virtual Consulting Engineers manages projects through the typical lifecycle stages, in accordance with the Project and Construction Management Professions Act No. 48 of 2000:

- Inception: Project initiation through briefing and definition
- Concept Development: Assessment of viability and confirmation of detail
- Design Development: Coordinate and integrate development processes
- Procurement: Bid documentation and the contracting of professional services providers and contractors
- Implementation: Construction, with an Operation and Maintenance phase
- Close-out: Handover to the client

As principal agent, we lead teams of architects, engineers, quantity surveyors and occupational health and safety agents.



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PROJECTS



Prison Repair Pilot Projects, Group 1 (1999 – 2004)

Department of Public Works / Correctional Services

In 1999, South African prisons were in a state of disrepair. Virtual Consulting Engineers developed contract documentation to roll out pilot projects for the Repair and Maintenance Contracts at Diepkloof, Leeukop, Odi, Atteridgeville, Zonderwater, Baviaanspoort, Losperfontein and Rooigrond, including buildings, fences, boiler and steam systems, water and wastewater treatment, solid waste handling, roads and stormwater.



Proclaimed Fishing Harbours (2002 – 2010)

Department of Public Works / Environmental Affairs

Implementation of 25 maintenance contracts, as programme manager with various engineering consultants, for repair of breakwaters, jetties, quays, buildings, civil infrastructure, electrical infrastructure, slipway installations and cranes at Lamberts Bay, Laaiplek, St Helena Bay, Saldanha Bay, Hout Bay, Kalk Bay, Gordon's Bay, Hermanus, Gans Bay, Struis Bay, Arniston and Still Bay.



Land Ports of Entry Pilot Projects (2004 – 2008)

Department of Public Works / Border Control Operation Coordinating Committee

South Africa shares 54 border control land ports of entry with neighbouring countries, where facilities are shared by different government departments. Virtual Consulting Engineers managed consulting engineers who worked on the first Repair and Maintenance Programme to restore buildings, services and infrastructure for all ports of entry that give access to Botswana, Zimbabwe, Mozambique and Eswatini.



National Health Insurance Pilot Projects (2015 – 2023)

National Department of Health

Virtual Consulting Engineers was appointed to centrally manage Infrastructure Backlog Maintenance Programme, to renovate buildings and associated infrastructure of health facilities, which included Community Health Centres, Clinics and Hospitals, covering at least 571 facilities in eight provinces through involvement of 108 professional services providers and 71 contractors, worth close to R1bn.



Langa fire department and MyCiti Bus depot (2023 – 2027)

City of Cape Town

The CoCT have implemented projects to provide services to the community. VCE led a professional team consisting of Architects, Engineers, Town Planner, Land surveyors, Environmental practitioners, H&S Agent, Landscapers and various specialist consultants to design SANS energy efficient facilities.



Social Labour Planning / Engineering support (2023 – 2028)

De Beers Venetia Diamond Mine

Venetia Diamond Mine near Musina is South Africa's biggest diamond producer. The recently completed underground project worth R40bn will bolster De Beers' global production until at least 2045. VCE supports Venetia's SLP programme requirements that focus on infrastructure provision, poverty eradication, job creation and community investment.