



Artist rendering only

A collaborative research project in Windhoek, Namibia, involving a professional team including Burmeister & Partners, Gachiku Kamau Architects and various research and development stakeholders, for the research into and the use of alternative, sustainable building materials, as well as the utilization of other by-products from the project.

The project has been divided in two phases:

Phase 1: Infrastructure and cultivation

A shipping container filled with industrial equipment for mushroom cultivation.

B&P designed and supervised the construction of the civil works (topographical survey, geotechnical investigation, access road, platforms, water, sewer, perimeter fence, parking areas, office), electrical and mechanical installations.

Phase 2: Construction of the lab

B&P has designed the platform, biomass storage area, building structure as well as the installations for the lab.

Due to the special characteristics of the project, the structure includes rammed earth walls. The way the dome is constructed is novel as well utilizing inflatables as formwork.

DIGITAL FABRICATION LAB

PROJECT STATS

- Value** NAD 4.4 million
USD 0.27 million (ROE 16.24)
- Location** Windhoek, Namibia
- Client** Gachiku Kamau Architects
- Start** 11/2019
- Finish** In progress



SERVICES

- Project Management
- Preliminary & detail design
- Geotechnical Investigation
- Topographical Surveying
- Construction Supervision
- Contract Administration

- Project Management
- Civil
- Structural
- Mechanical
- Electrical