

## **PROJECT EXPERIENCE PORTFOLIO**

Brian Colquhoun, Hugh O'Donnell & Partners (BCHOD)

### **1. Roads & Highway Engineering**

- T003 Dual Carriageway – Kitwe to Chingola (2017–2021): Upgrading and construction including new Mwambashi River bridge.
- Climate Resilience Pilot Project – Kalomo to Namwala (2017–2022): Rehabilitation of earth roads, drainage structures, embankments and realignments.
- T005 Solwezi to Mwinilunga (2014–2017): Periodic maintenance and supervision works.
- T002 Lusaka to Chirundu Escarpment (34.7km): Rehabilitation, widening, bridge construction and pavement strengthening.
- UNWTO Funded Livingstone City Roads (57km): Rehabilitation, surfacing, drainage, lighting and ancillary works.
- Urban Roads Upgrading – Lusaka (Lot 7 & 9): Upgrading to bituminous standard including drainage and junction improvements.
- Accelerated Urban Roads Rehabilitation – Solwezi, Mongu and Livingstone.
- ZARI Mount Makulu Roads – Design and supervision.
- Mozambique Road & Bridge Infrastructure Surveys (2010–2012).

### **2. Structural & Building Engineering**

- ABSA Head Office – Lusaka: Geotechnical investigations, traffic studies, structural and civil supervision.
- Cancer Diseases Hospital – UTH Lusaka: Structural design and construction supervision.
- Barclays Bank Buteko Branch – Ndola: Structural assessment and foundation investigation.
- ZANACO Data Centre – Lusaka: Drainage design and roof remediation.
- Levy Junction Mixed Development – Lusaka: Traffic, geotechnical and bulk services investigations.
- Danish Embassy Car Park – Lusaka: Detailed design including drainage and surfacing.
- Chirundu Border Post – Civil works design and supervision.

### **3. Geotechnical Engineering**

- Mvuvye Bridge – Nyimba: River geotechnical investigations for foundation design.
- TMD Roads Material Investigations – Zambia: Borrow pit and quarry investigations.
- Ngonye Falls Solar PV Project: Foundation testing and hydrological studies.
- King Abdullah Bin Salman Hospital – Lusaka: Soil profiling and foundation investigations.
- Barclays Bank Structural & Geotechnical Assessment – Ndola.

#### **4. Water Supply & Sanitation Engineering**

- Design and implementation of water supply systems including intakes, transmission and distribution networks.
- Stormwater drainage and flood management systems.
- Water treatment plants and pumping stations.
- Feasibility studies and detailed engineering design reports.