GROUND CONTROL
ENGINEERING CONSTRUCTION LTD

COMPANY PROFILE

GROUND CONTROL

ENGINEERING & CONSTRUCTION LTD

ABOUT GROUND CONTROL

Tailored solutions. Leading technology. Lasting impact.

Ground Control Engineering Construction Ltd is a multidisciplinary engineering and construction company providing end-to-end turnkey solutions, covering design, implementation, operation, and maintenance across complex infrastructure and industrial projects.

CORE COMPETENCIES

GROUND & SLOPE STABILIZATION

Rock bolts, anchors, high-wall support, ground improvement, mesh systems and sprayed concrete applications—including shotcrete and gunite—to stabilize slopes and address challenging ground conditions.

CIVIL, INDUSTRIAL, ENERGY & UTILITIES INFRASTRUCTURE

Engineering, construction and maintenance of roads, bridges, railways, airports, ports, buildings and industrial parks, alongside water supply and drainage systems, waste management facilities, irrigation schemes, hydropower plants, Solar schemes, Substations, power networks and associated infrastructures.

TUNNELING & MINING WORKS | OIL & GAS SUPPORT SERVICES

Specialist tunneling and mining works, drilling, blasting and ground support, alongside oil and gas construction and technical services, geological and seismic surveys, site investigations and exploration support.

ENVIRONMENTAL & SOCIAL MANAGEMENT

Environmental and social impact assessments, protection, restoration and compliance support, alongside flood management and waste infrastructure services, integrated throughout project delivery to promote sustainability.

STRUCTURAL REPAIRS, REHABILITATION & MAINTENANCE

Restoring and maintaining of deteriorated or damaged civil, industrial and energy infrastructure through structural repairs, concrete rehabilitation, waterproofing, slope stabilization, drainage and flood protection works, supported by preventive and corrective maintenance for bridges, dams, roads and roadside slopes, railways, airports, mines, pipelines, power lines, substations, transformers, power plants, oil well pads, landfills, drainage systems, buildings, industrial parks and seismic monitoring stations.

SPECIALIST CONSTRUCTION & FACILITIES MANAGEMENT

Specialist construction and field services, including drilling and blasting, surface treatment and repairs, tank cleaning, pipe installation, traffic management, seismic station installation and servicing, infrastructure inspections and facilities management.

BRIDGE REPAIRS

TUNNELLING

SLOPE STABILIZATION

STATION MAINTENANCE

OUR DIRECTION

MISSION

To provide bespoke, cutting-edge engineering and construction solutions through innovation, quality, efficiency and technical excellence, delivering sustainable value tailored to the unique needs of our clients and communities across Uganda, Africa and beyond.

OUR GOAL

To understand local needs, strengthen participation, and deliver tangible economic and social benefits wherever we work.

STRATEGY

To deliver high-quality projects through skilled people, continuous training, and integrated design, construction, supervision, and project management.

ORGANISATIONAL STRUCTURE

BOARD OF DIRECTORS

MANAGING DIRECTOR

Crispus Omuut

GLOBAL CHIEF EXECUTIVE OFFICER

Andrew K. Bettison

CONCRETE/STRUCTURAL REPAIRS

Our concrete repair service offers a wide range of services, such as Structural Repairs – using high build light weight hand place materials to sprayed or poured concrete, on high rise buildings /bridges and many other structural buildings. We also offer a full range of coatings from decorative paints to anti – carbonation coatings which reduces the ingress of carbon dioxide, oxygen and water into the concrete surface, thus offering a longer life span to the structure. Grouting and crack injection can be applied by hand pumps or specialist high pressure pumps. Various methods can be used such as; crack injection into fine cracks or, void filling with grouts. We also offer fire protection whereupon we roll, or spray materials on to any given surface, significantly minimizing the chances of failure due to fire on the structure, thus increasing the time people have to safely evacuate the area.

DRILLING & BLASTING

Ground Control has broad based knowledge and experience in the field of drilling blast holes and loading them with explosives. Detonating the blast, followed by ventilation to remove blast fumes, removal of the blasted rock (mucking), scaling crown and walls to remove loosened pieces of rock, installing initial ground support, advancing rail, ventilation, and utilities.
The team provides both drilling consulting as well as on-site supervision. We emphasize health, safety and the environment in all our operations.

LAND STABILIZATION

We cover the whole spectrum of land stabilisation from slope protection using various methods such as rock bolting with SDA (self drilling anchors) normal rock bolts / swellex / split sets and rebar all fully grouted or with quick set resins.
We use various meshing techniques with tecco / quorax / and normal draped mesh with a wet shotcrete or gunite finish , along with this we also give the service of catch fencing / landslide fencing and debri control , we have rope access and high platform lifts available for any given situation with a full range of grouting methods from pressure grouting to free flow.

HIGH WALL SUPPORT/BOX CUTS

We offer the services in high wall support and box cuts. They are very much the same in supporting systems ,box cuts are generally in mines with high walls but we also cater for high wall support on highways (roads) where the road needs to be cut through hills or mountainous areas and the ground needs to be stabilized.
Such methods used are SDA bolts / rock anchors / gewi bars all fully grouted or use of resin (quick setting), various mesh can be used depending on design (we can offer design if so required) cable anchors are another option we have along with Oslo – straps and cable strapping. We install with the use of high access lifts of in extreme heights and locations we use rope access.

TUNELLING

We pride ourselves in our timely execution of our tunnels and meeting targets in extreme ground conditions. We use the NATM method as a rule and have a highly skilled motivated team that delivers a quality finished product. Our resident engineer designs the blasting patterns while calculating every single blast according to the ever changing ground condition to restrict the chance of over break and undercut. We're very familiar with all blasting products and can accommodate most into the design for a more economic excavation. We utilize modern machinery in all our projects, additionally we design new tunnel ventilation systems for each new project to ensure maximum safety, efficiency and productivity.

ENVIRONMENT AND SOCIAL ISSUES

Ground Control's qualified staff have a wealth of sector experience from assessing Social and Environmental impacts, evaluating alternatives, designing appropriate mitigation, management and monitoring measures . We also offer bespoke solutions for a range of infrastructure projects.

SPRAY CONCRETE GUNITE

Ground control provides a complete sprayed concrete package including the installation of anchors, rock bolts or soil nails, reinforcing or meshing, subsoil drainage and shotcreting.

KARUMA HYDRO POWER PLANT (2018)

Project facts

The 600Mw Karuma HPP located on the Nile River in Kiryandongo District in mid-northern Uganda.

Largest power-generating installation in Uganda.

Technical specifications: The comprises of a roller compacted concrete gravity dam, that measures 20 metres (66 ft) high and 312 metres (1,024 ft) long, six water intake towers each measuring 20 metres (66 ft) high and 29 metres (95 ft) wide , an underground chamber housing the six vertical Francis turbines of 100MW each measures 200 metres (656 ft) long, 21.3 metres (70 ft) wide, and 53 metres (174 ft) high.

Project cost U.S.D 1.7 Billion Dollars.

Services offered at Karuma

- Repaired Bio-Tunnels for Hydro Power (size: 15 km long, 16x12)
- Structure repaired using crack injection & various concrete repair methods with sika products

BUGOYE HYDRO POWER PLANT (2008)

Project facts

Bugoye is a 13 MW (17,000 hp) mini hydroelectric power station in Kasese district, Uganda.

The powerhouse accommodates two units generating 84 GWh in average annual production. A 6.5km long 33 kV transmission line evacuates the power from the hydropower plant to the national grid at the Nkenda substation.

Client is NOREMCO

Estimated project cost: US$35 million

Services offered at Karuma

- Tunneling. 300m Single Tube tunnel 6m * 6m all mining by hand in shallow conditions.
- NATM work and concrete works.

GAUTRAIN RAPID RAIL LINK (2007)

Project facts

The Gautrain, based in Gauteng province, is the first high-speed train to operate in South Africa as well as on the African continent

The 80km Gautrain rail line included the construction of 15km of tunnelling and a number of viaducts, stations, depots, and parking bays

The Client is Bombela Concession Company.

Project cost: R30 billion

Services offered

- NATM Tunneling works between mushroom park farm station and Sandon station.

RUFFJI HYDRO POWER PROJECT (2018)

Project facts

The 2,100MW Rufiji hydropower project was built on the Rufiji River in Stielger's Gorge, Selous Game Reserve of Tanzania.

The Rufiji hydro power project includes the construction of a roller compacted concrete (RCC) dam on the Rufiji River. The dam is 134m-tall and have a storage capacity 34 million cubic metres (Mcm) of water.

The reservoir is 100km-long and 1,350km^2 in area, while the earth embankment will be 3.7Mcm

The Client is Tanzania Electric Supply Company Limited (TANESCO).

Its $2.9 billions project value.

Services offered

- Created diversion tunnel, adtits, all portals, head race and tail race tunnels.

Z-MORH – ZOJILA PROJECT (2019)

Project facts

Z-Morh Tunnel is a road tunnel project in India.

The project includes a 14.15-km tunnel, an 18-km approach road between Z-Morh and Zoji-La tunnel as a single integrated package, besides carriageway, two snow galleries, four major bridges and 18 avalanche-protection dams.

The Client is National Highways & Infrastructure Development Corporation Ltd India

Project cost is Rs 8,000

Services offered

- Tunnelling with NATM, ventilation shafts and all portals.

RUFFJI HYDRO POWER PROJECT (2018)

Project facts

The Chenani-Nashri tunnel is a single-tube bi-directional tunnel, with a 9.35-metre carriageway, vertical clearance of 5 metres, and a parallel escape tunnel with cross passages connecting to the main tunnel

The 9.00 km Chenani-Nashri tunnel, India's longest and safest tunnel

The Client is Leighton India Contractors Pvt. Ltd/ National Highway Authority of India (NHAI)

Project cost: R47bn ($724m).

Services offered

- Construction of the Patnitop Tunnel (13.3m of diameter) and the parallel escape tunnel (6.4m of diameter).
- The excavation of the main tunnel was carried out simultaneously from both portals by conventional Drill & Blast method

BOOYSENDAL PLATINUM MINE HIGH WALL SUPPORT (2013)

Project facts

The South Mine Expansion Operation located in South Africa, EMEA includes the development of N Booysendal

Central Box-Cut and associated infrastructure, N Booysendal Central Merensky, N BCM 1 Merensky, N BCM 2 Merensky , N Operations on the acquired Everest, and Mine

The Client is Northam Platinum

The project cost: $580 million

Services offered

- High wall support method of support anchors length up to 11m Sda & Gunite/Mesh/Grouting *7 portal entrances constructed.

LOSKOP DAM ROAD EXTENSION (2015)

Project facts

55km road and dam Located in Mpumalanga, South Africa

The canal, which runs down the left hand side of the river measures 480km.

The Client is South African National Roads Agency (SOC) Limited (SANRAL) led the project

Project value is R404-million.

Services offered

- 55km road refurbishment with various road cuttings. Methods of support and access, various high high lift machinery and rope access. Supporting system used: anchor bolting, high strength mesh, guniting.

HEALTH & SAFETY

Ground Control Engineering and Construction is committed to the highest standards of Health and Safety and ensuring that reasonable steps are taken at all times to ensure health and safety of employees and all involved in the project

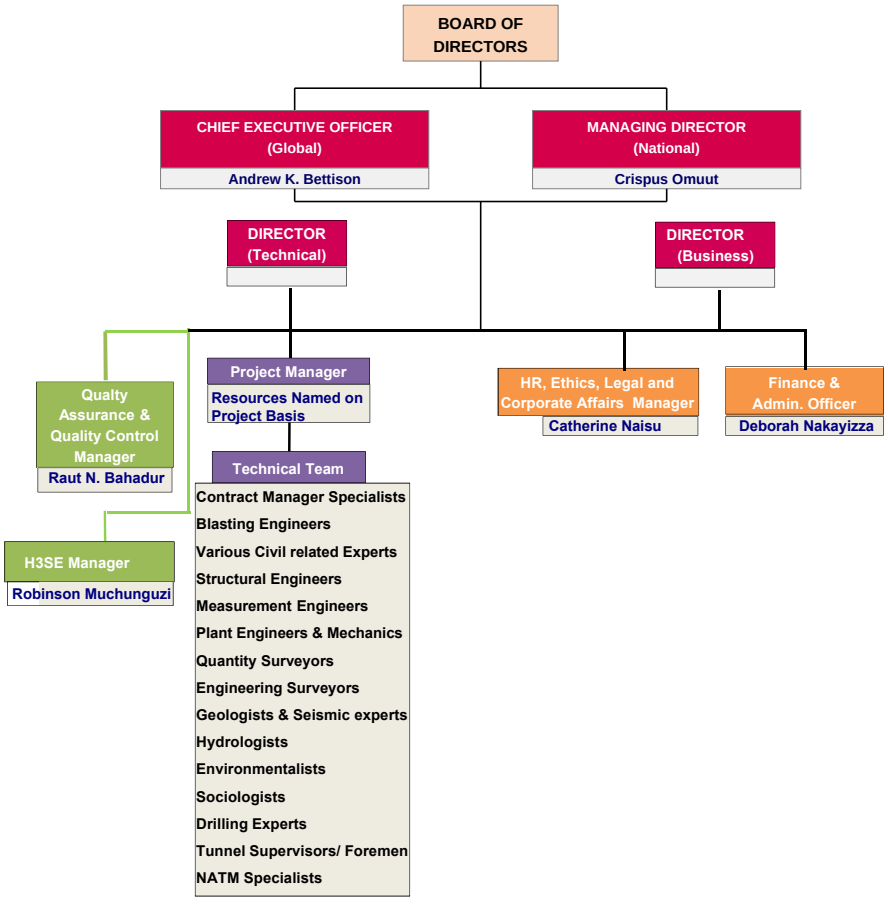
QUALITY

The quality management system adopted by Ground Control Engineering and Construction is a strategic decision which is structured and influenced accordingly by organizational environment, changes in that environment, and the risks associated with that environment, its varying needs and those of the client.

Projects objectives

- The processes employed to deliver the work
- The size and organizational structure

THE ORGANOGRAM



GOALS AND

OBJECTIVES

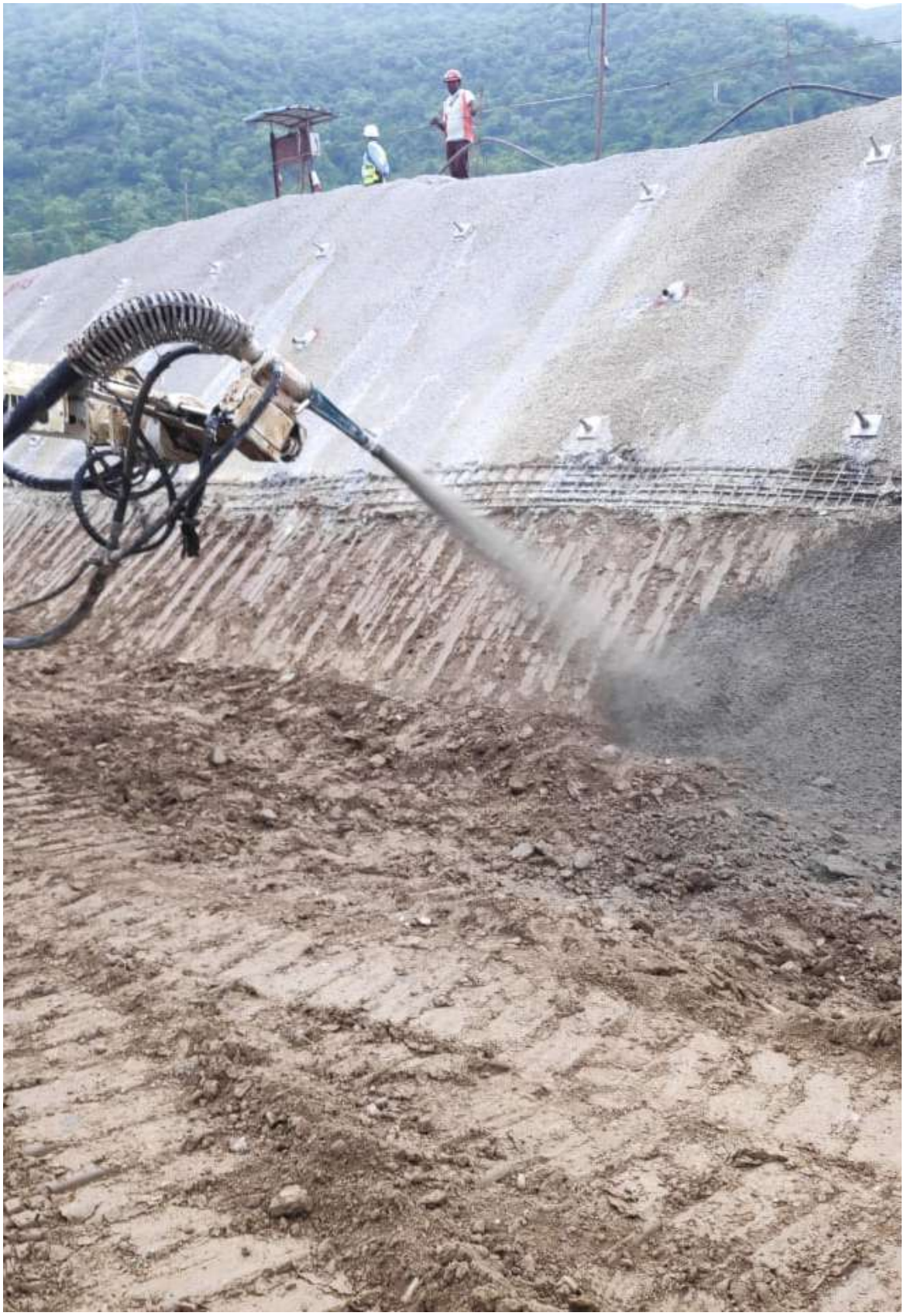
Our business disciplines include: Mining Rehabilitation, Bridge Construction/Repairs, Storm water systems repairs, Carbo Fibre High Wall Support, Concrete Patch Repairs, Spray Concrete & Gunite Repairs of graffiti damages, Structural Repairs & Maintenance, Drilling & Blasting, and Land Stabilization

The Core objectives of the project team as defined are to ensure successful delivery for work by:

- Defining the project objectives
- Defining project start and end dates
- Defining project scope
- Adhering to funding limits
- Utilizing human and non-human resources effectively for sound delivery of project throughout from the project initiation stage to project complexion stage.

Ground Control Engineering and Construction Ltd is committed to the highest standards of Health and Safety and ensuring that reasonable steps are taken at all times to ensure health and safety of employees and all involved in the project.

ESCARPMENT CUTTING WITH A DRILL & BLAST METHOD AND HIGH WALL SUPPORT



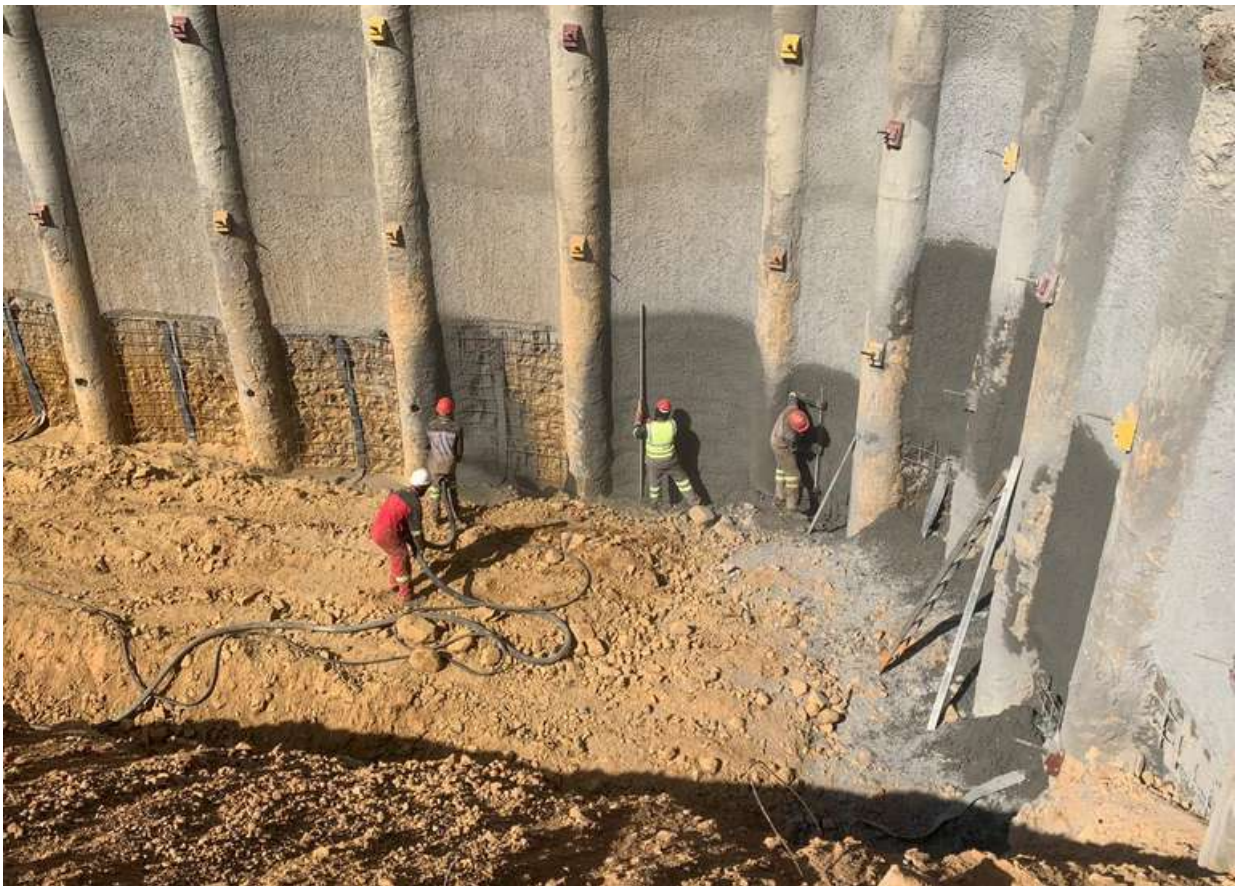
MECHANICAL SHOTCRETE SPRAYING FOR SLOPE STABILISATION

TWIN TUBE ROAD TUNNELS

SLOPE STABILISATION

MINING EXPERIENCE

GENERAL TUNNELING WORKS



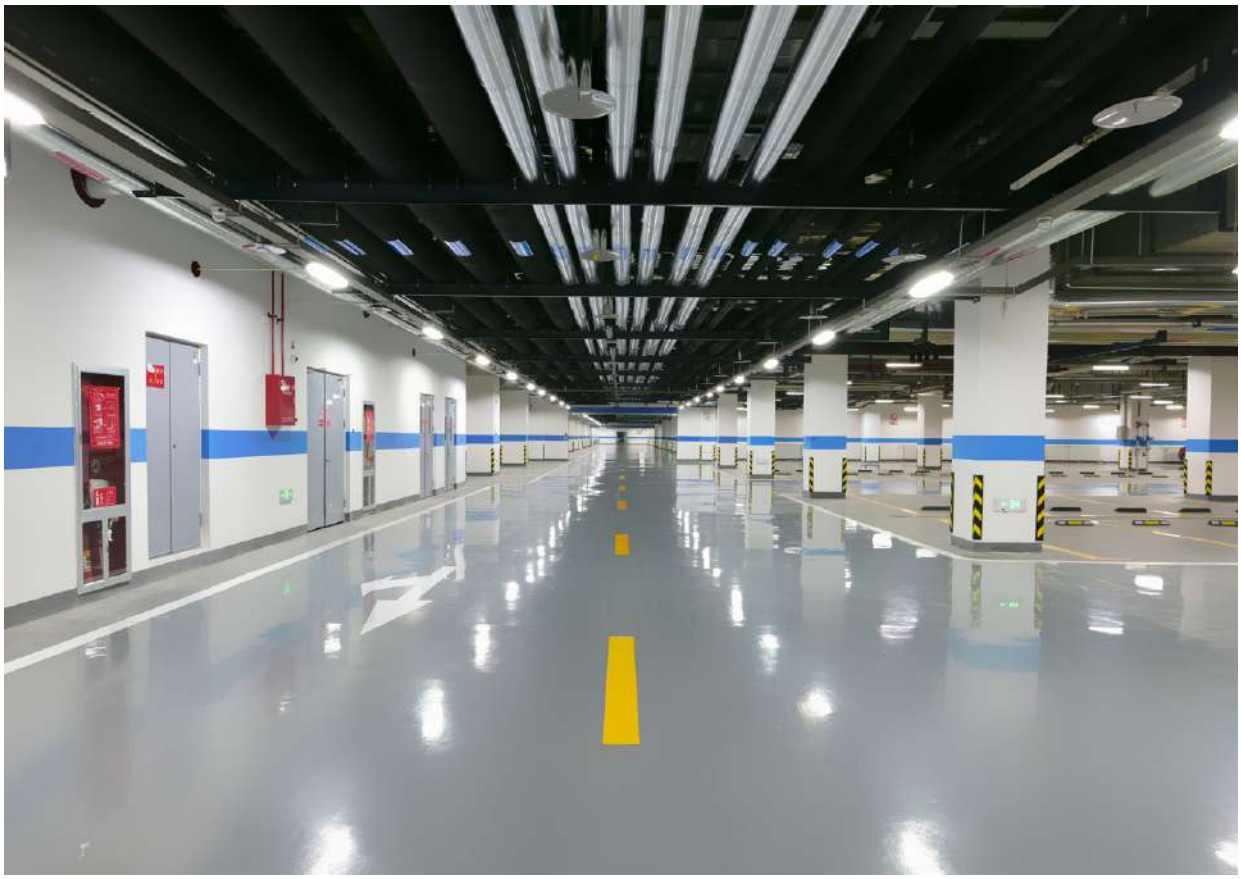
DEEP BASEMENT SUPPORT WORK

RAILWAY EMBARKMENT SLOPE STABILISATION

BOX CUT

SLOPE STABILISATION USING MESH

CONCRETE WORKS



EPOXY FLOORING

CONCRETE CRACKS REPAIRS

ROADS AND BRIDGES PORTFOLIO

ENVIRONMENTAL RESTORATION

CONSOLIDATION AND ROCK BOLT GROUTING

SEWERAGE PONDS

DRAINAGE WORKS

AIRPORT PARKING LOTS

ASPHALT ACCESS ROADS AND PARKING LOTS

SITE CLEARING AND GRADING

LET’S BUILD LASTING VALUE.

GROUND CONTROL ENGINEERING CONSTRUCTION LTD

VISIT US

Plot 1878, Bukoto–Kisaasi Road
P.O. Box 135100
Kampala GPO, Uganda

CALL US

+256 200 911 299
+256 773 694 017
+91 87555 54225

EMAIL US

info@groundcec.com
a.bettison@groundcec.com
c.omuut@groundcec.com

www.groundcecltd.com