INFRASTRUCTURE DEVELOPMENT AND CONSULTING COMPANY LTD

(IDCC LTD)

"Driven by Expertise"

COMPANY PROFILE

Construction of Fuel Depot Civil Works — Tank Farms, Bunds, Drainage and Depot Infrastructure

Petroleum, LPG and Hydrocarbon Storage Facilities

LPG storage spheres and bunded compound — 17,100 m³ LPG storage & distribution plant, Rusororo

Company	Infrastructure Development and Consulting Company Ltd (IDCC Ltd)
TIN	103685986
Established	2015 — Kigali, Rwanda
Core focus	Safety-critical civil works for fuel and LPG depots and tank farms
Tagline	Driven by Expertise
Contact	Tel: +250 788 33 175	Email: idcclimited@gmail.com

Contents

1. Executive Summary✅

Infrastructure Development and Consulting Company Ltd (IDCC Ltd) is a Rwanda-registered engineering and construction firm specialised in safety-critical civil works for hydrocarbon facilities. This profile is presented in support of the construction of fuel depot civil works, and consolidates IDCC's corporate capability, methodology, plant and personnel for the delivery of a complete, bid-ready package for the construction of fuel tank farms and depots.

IDCC delivers the full civil scope required to build a fuel or LPG depot: tank foundations, ring beams and pads, bunds (dyke walls and floors) with impermeable lining, foundations for pump houses, pipe racks, weighbridges and hardstands, internal roads and drainage, interceptors and oil-water separators, fencing, gates and ancillary buildings. The firm combines hands-on construction capability with deep local regulatory knowledge and close coordination with relevant ministries and agencies, with a consistent focus on best practice, code compliance and sustainability.

The company's personnel have directly led and supervised the construction of major fuel and LPG storage facilities in Rwanda, including a 60-million-litre fuel depot at Rusororo, the rehabilitation of the Rwabuye fuel depot, depot works at Bigogwe, and a 17,100 m³ LPG storage and distribution plant currently under its final phase of construction. This direct, recent experience on live depot construction underpins IDCC's readiness to mobilise and deliver.

2. Company Overview

- **Identity.** Established in 2015; a Kigali-based multidisciplinary firm (TIN 103685986) serving the petroleum, LPG and fuel-depot infrastructure sector, alongside roads and utilities.
- **Services.** End-to-end delivery: feasibility, engineering design, regulatory compliance, construction supervision, and construction of fuel and LPG depots; close coordination with relevant ministries and agencies.
- **Depot construction track record.** Civil works essential for the installation and construction of fuel depots, including a 60-million-litre fuel depot in Rusororo, rehabilitation of the Rwabuye fuel depot, depot works at Bigogwe, and ongoing civil works for the 17,100 m³ LPG storage and bottling/distribution plant.
- **Standards.** Vertical storage tank foundations designed and built to API-650 / API-620; works executed to applicable petroleum and fire-safety standards and to client specifications.

3. Why IDCC for Fuel Depot Civil Works✅

For the immediate national priority of putting up depot and tank-farm infrastructure as a short-term solution to the strategic-reserve shortfall, IDCC offers a combination of capabilities that are difficult to assemble at short notice:

- **Proven depot delivery.** Direct, recent construction experience on large fuel and LPG depots in Rwanda — not only design, but built work.
- **Complete civil scope under one firm.** Tank foundations, bunds, drainage, roads, pump-house and pipe-rack foundations, weighbridges and ancillary civils delivered as an integrated package.
- **Mobilisation-ready plant.** An owned-and-hired fleet of heavy plant, concrete-production, lifting, dewatering and survey/QA equipment sized for multiple parallel work fronts.

- **Code compliance and QA/QC.** API-650/620 foundations, documented inspection and test plans, and an independent close-out and handover process.
- **Regulatory familiarity.** Established working relationships with MINICOM, RURA and sector stakeholders, and experience in fuel-sector studies and standards.

4. Scope of Civil Works — Fuel & LPG Depots

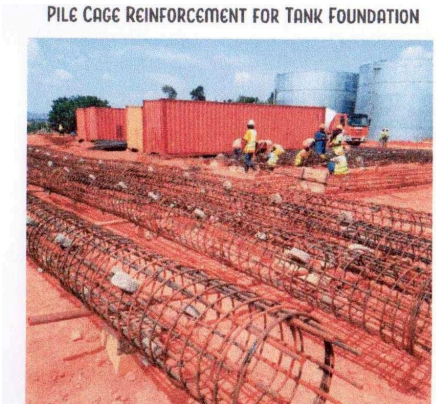
IDCC undertakes the complete civil works required for the construction of fuel and LPG depots, including:

- Geotechnical enabling and formation preparation, including proof-rolling and stabilisation.
- Piling (if specified), ringwall / raft foundations for vertical storage tanks per API-650 / API-620.
- Bund (dyke) walls and floors with impermeable lining and leak detection provisions.
- Foundations for pump houses, pipe racks, weighbridges and hardstands.
- Internal roads, paving, stormwater drainage, interceptors / oil-water separators, fencing, gates and temporary works.
- Firewater tank and firefighting civil foundations, loading / offloading bays, and ancillary buildings (admin, guard, workshop).
- Temporary works, dewatering, and erosion / sediment control.

5. Construction Methodology

5.1 Tank Foundations (Civil Works)

1. Survey & benchmarks: establish primary and secondary control, offsets, and formation levels.
2. Geotechnical confirmation: review SI, verify allowable bearing / settlement; finalise foundation type (ringwall / raft / piles).
3. Earthworks & subgrade: stripping; excavation to formation; moisture conditioning; compaction to specified density / CBR; install geotextiles if required.
4. Drainage & dewatering: provide temporary / permanent drainage and sumps to maintain dry formation during weather events.
5. Blinding: cast and finish blinding concrete; set centrelines and annulus; install anchor-bolt templates with survey verification.
6. Reinforcement & formwork: fabricate and place rebar to bar-bending schedule; form ringwall / raft; place sleeves / earthing / inserts per IFC drawings.
7. Concrete placement: batching controls; slump / temperature checks; continuous vibration; finish to tolerance; curing (membrane / wet).
8. Bunds & ancillary civils: construct dyke walls / floors with liner; gantry and pipe-rack foundations; weighbridge and hardstands; internal roads and culverts.
9. Testing & handover: field density, Proctor / CBR, concrete cubes (7 / 14 / 28-day); analyst survey; as-builts; dossiers with approvals and redlines.



Pile cage reinforcement for tank foundation

Bund wall and ring-beam foundation for a tank farm

5.2 Steel Structures, Roofing & Cladding

For bottling halls, sheds and ancillary structures, IDCC delivers procurement, fabrication, column and frame erection, roofing and cladding, including: isolated pad footings with pedestals and tie beams; anchor-bolt templates positioned and verified; grout pads roughened for bearing; structural-steel bolt-up with torque / tension logs, weld visual and NDT to ITP; and cladding / roofing with correct fastener pattern, lap and seal continuity and water-tightness inspection. Concrete acceptance is typically C25/30 (or per specification), with 7 / 14 / 28-day cube tests.

Construction of bottling hall for LPG cylinders

6. Quality Assurance & Quality Control (QA/QC)

- Inspection & Test Plans (ITPs) with hold / witness points for earthworks, reinforcement, concreting, curing and lining.
- Material traceability: material inspection requests (MIRs), mill certificates and lab test results, calibrated instruments.
- Testing regime: Proctor / CBR; field density (sand cone / nuclear); concrete cubes; rebar tests per specification.

- Survey controls: pre-pour and post-pour checks; independent verification for anchor-bolt positions.
- Non-conformance control: NCR / CAR process with documented close-out; handover dossier indexing.

7. Health, Safety, Environment & Social (HSE/E&S)

- PTW, TRA / JSA, inductions and toolbox talks; SIMOPS coordination with other disciplines.
- Controls: PPE, confined space, lifting, working at height, hot-work, excavation, traffic and plant management.
- Environmental & social: ESIA / ESMP / RAP alignment; GRM; waste segregation; dust / noise / runoff controls; spill prevention and response.
- Emergency readiness: drills, first aid, spill kits, fire watch and muster arrangements; incident reporting and lessons learned.

8. Organisation & Key Personnel

IDCC fields an experienced multidisciplinary team. The core roles and responsibilities are summarised below.

Role	Key responsibilities
Project Manager — Eng. Jean Clement NSHUBIJEHO	Overall delivery; client interface; HSE / quality leadership; programme and cost control; approvals.
Senior Civil Engineer — Eng. Jean Nepo UWAMUNGU	Earthworks, foundations, bunds, drainage; method statements; supervision and QA.
E&S / SHERQ Advisor — Dr. Noel J. B. NSENGIMANA	ESIA / ESMP / RAP implementation; OHS leadership; ESG reporting; audits and training.
Electrical / Controls Lead — Eng. Freddy SAYINZOGA	Earthing / bonding; hazardous-area compliance; electrical interfaces to pumps and instrumentation.
Finance & Admin — ITWAMUGIZE Jean Damascene	Project accounting; procurement support; cash-flow; payroll and compliance.
Survey & QA/QC	Survey control; ITP / QCP execution; laboratory coordination; dossiers and close-out.

8.1 Project Manager — Relevant Fuel-Depot Construction Experience

Eng. Jean Clement NSHUBIJEHO leads the team and brings direct, hands-on experience managing the construction of fuel and LPG depots in Rwanda. Acting as Project Manager and in a construction-supervision capacity, he has followed up and overseen the works listed below.

Facility / works	Role and scope	Status
60-million-litre fuel depot — Rusororo	Project Manager following up the construction of the fuel depot; supervision of tank foundations, bunds, drainage and ancillary civils.	Completed
Fuel depot rehabilitation — Rwabuye	Rehabilitation of the fuel depot; civil works supervision, foundation and bund refurbishment, and reinstatement.	Completed
Fuel depot — Bigogwe	Depot civil works; foundation, containment and ancillary infrastructure supervision.	Completed

Facility / works	Role and scope	Status
17,100 m³ LPG storage & distribution plant	Civil works for LPG storage and distribution, including foundations, bunds and bottling-hall civils.	Under construction (final phase)

Note: *the Rusororo, Rwabuye and Bigogwe works were carried out in a Project-Manager / construction-supervision capacity with MM&RJD and EDCL. Sector experience is further supported by the Project Manager's service with RURA (Head of Section, Gas, Petroleum and Renewable Energy) and EDCL (Manager / Senior Engineer, Methane, Peat & Oil), and by specialist training in Storage Tank Design, Construction & Maintenance (Petro Knowledge, Dubai) and HSE Management in the Petroleum Sub-Sector (PIEA).*

8.2 Project Manager — Current Duties on the 17,100 m³ LPG Storage & Distribution Plant

On the 17,100 m³ LPG storage and distribution plant (Rusororo), currently in its final phase of construction, Eng. Jean Clement NSHUBIJEHO serves as Project Manager with overall responsibility for delivery, safety and client interface. His current duties include:

- **Overall project delivery.** Day-to-day leadership of the civil works, programme and cost control, and reporting to the client and stakeholders.
- **LPG storage civil works.** Supervision of the foundations for the LPG storage spheres / bullet tanks and daily tank, including ring-beam / pedestal foundations, bunding and impermeable containment, to API and applicable LPG safety standards.
- **Bottling hall and distribution facilities.** Coordination of the bottling-hall structure, filling and distribution areas, loading / offloading bays and associated hardstands.
- **Safety-critical interfaces.** Management of hazardous-area, earthing / bonding, firewater and gas-detection civil interfaces, and SIMOPS coordination between civil, mechanical and E&I teams.
- **Quality and handover.** Oversight of the ITP / QCP, anchor-bolt setting-out and survey verification for tank fit-up, and compilation of the handover dossier for the final phase.
- **HSE leadership.** Enforcement of permit-to-work, exclusion zones, hot-work controls and emergency-readiness arrangements appropriate to a live LPG facility.

Handrails, staircases and LPG bullet gantries

Completed LPG storage spheres and bunded compound

9. Plant, Machinery & Equipment

IDCC deploys a comprehensive fleet of civil-works plant and equipment — from heavy plant to hand tools — to support multiple parallel work fronts on fuel-tank foundations, bunds, drainage, roads and ancillary foundations. Equipment is held on an owned or hired basis as indicated, with spare capacity for critical small tools to avoid downtime.

Civil works machinery and equipment mobilised on site

A. Heavy Plant & Earthworks / Haulage

Item	Typical specification	Primary use	Own / Hire
Crawler Excavator (×1)	20–22 t, 0.9–1.2 m³	Bulk excavation, trenches, services, trimming	Hire
Bulldozer (×1)	D6 / D65 class	Cut / grade tank platforms	Hire
Motor Grader (×1)	140–160 HP	Final levelling, roads	Hire
Wheel Loader (×1)	2.5–3.5 m³	Stockpiles / loading	Hire
Dump Trucks (×4)	15–19 t rigid	Earth / aggregate haul	Hire
Water Bowser (×1)	10–15 kL	Dust & compaction moisture	Hire
Padfoot Roller (×1)	10–12 t vibratory	Fill-layer compaction	Hire
Smooth Drum Roller (×1)	10–12 t vibratory	Sub-base / base, pads	Hire
Pneumatic Tyred Roller (×1)	20–25 t	Asphalt / finishing (yards / roads)	Hire
Backhoe Loader (×1)	80–100 HP	Small digs / utility	Own
Pickup / Utility Vehicles (×2)	4×4	Supervision / logistics	Own

B. Concrete Production, Placement & Rebar

Item	Typical specification	Primary use	Own / Hire
RM 800 Reversible Mixer Batching Plant (×2)	12 m³/h	Concrete supply	Own
Boom Concrete Pump (×1)	32–36 m	Ring beams / slabs	Hire
Line Pump (×1)	60–80 m³/h	Pads, tight access	Hire
Poker Vibrators (×6)	38–50 mm	Concrete compaction	Own
Screed / Surface Vibrator (×1)	2,800–15,000 vpm	Slab finishing	Own
Rebar Cutting Machine (×1)	32–40 mm	Cut bars	Own
Rebar Bending Machine (×1)	32–40 mm	Bend bars	Own
Bar Tying Tools (×6)	auto / hand	Fixing rebar	Own
Welding Machines (×2)	300–500 A	Inserts / plates	Own
Generators (×1)	60–100 kVA	Site power / back-up	Own
Air Compressor + Hoses (×2)	7–8 bar	Tools / cleaning / metal paint	Own
Scaffolding & Access (full set)	Cuplock / tubes	Safe access	Own
Forklift (×1)	3–5 t	Palletised materials	Hire

C. Lifting & Erection

Item	Typical specification	Primary use	Own / Hire
Truck-Mounted Crane (×1)	8–12 t	Day-to-day lifting	Hire
Chain Blocks (×3)	1–3 t	Localised lifting	Own

D. Drainage, Dewatering & Utilities

Item	Typical specification	Primary use	Own / Hire
Diesel Dewatering Pumps (×1)	6″ (high head)	Excavation dewatering	Own
Submersible Pumps (×4)	2–3″	Sumps / pits	Own
Plate Compactors (×3)	80–100 kg	Trenches / edges	Own
Rammer Compactors (×4)	60–80 kg	Tight corners	Own

E. Survey, QA/QC & Laboratory

Item	Typical specification	Primary use	Own / Hire
Total Stations (×1)	1″–3″ accuracy	Setting out / as-builts	Hire
Auto Levels (×2)	—	Levels / checks	Own
RTK GPS (×1)	Dual-frequency	Control network	Own
Concrete Cube Moulds (×60)	150 mm	Strength tests	Own
Curing Tank / Room (×1)	—	Cube curing	Own
Slump Cones / Thermometers (×1)	—	Fresh-concrete QC	Own
Rebound Hammer (×2)	Type N	In-situ concrete check	Hire

Item	Typical specification	Primary use	Own / Hire
Core Drill, wet (×1)	100–150 mm	Concrete coring	Own
Soil Density Kits (×2)	Sand cone / nuclear	Compaction QC	Hire
Sieves / CBR Moulds (1 set)	Standard set	Gradation / CBR	Hire

F. Small Tools & Site Equipment (pooled)

Rotary hammer drills, SDS-Max (×6); angle grinders, 9″/5″ (×8); circular / disc saws (×2); floor saw / concrete cutter (×2); electric hand breakers (×4); impact wrenches (×4); small portable mixers (×2); pressure washer (×1); wheelbarrows (×30); shovels / spades (×60); picks / mattocks (×30); sledgehammers (×10); bolt cutters (×4); levels / tapes / staffs (10 sets); diesel lighting towers (×4); site containers (offices / stores, as required); first-aid / spill kits and fire extinguishers per workfront and machine.

G. Temporary Works & Ancillaries

- Formwork consumables: release agents, ties, wedges (rolling stock).
- Road plates / trench covers for crossings.
- Safety: barriers, cones, signage, harnesses and lifelines — issued per crew.

10. Risk Register — Key Mitigations

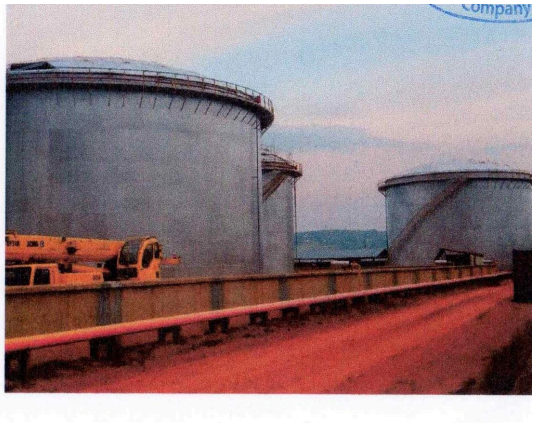
Risk	Impact	Mitigation
Water ingress during rains	Formation degradation; delay	Advance drainage; sump pumps; rapid blinding; weather windows.
Subgrade fails compaction	Rework; cost	Stabilisation (lime / cement); geotextiles; re-test before pours.
Anchor-bolt misalignment	Tank fit-up issues; rework	Two-stage survey checks; independent verification; template jigs.
Interface clashes (civil / mech / E&I)	Schedule conflicts	SIMOPS plan; interface matrix; daily coordination meeting.
Safety incident	Harm; stoppage	PTW, JSA, exclusion zones; supervision ratios; drills and audits.

11. Work Programme & Deliverables

A typical tank-foundation package spans 10–16 weeks depending on design and weather. A baseline bar-chart and S-curves are provided at kick-off. Key deliverables include: method statements, ITP / QCP set, TRA / JSA register, inspection / test logs, survey reports, material traceability book, daily / weekly progress reports, and handover dossiers (as-builts, redlines, test certificates).

12. Experience & Completed Assignments

IDCC and its personnel have delivered a range of fuel, LPG and energy-sector assignments, several certified by clients and Government. Selected completed depot works are illustrated below, followed by a reference summary.

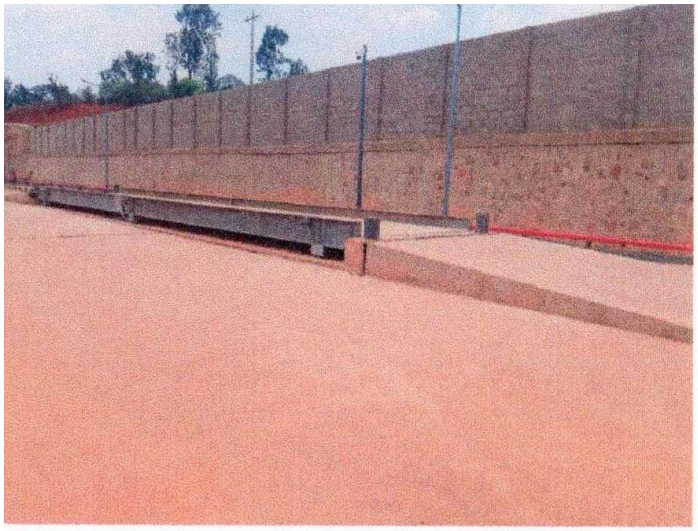


Fuel storage tanks — completed depot

6 m retaining wall under construction — depot platform

Completed firewater tank foundations

Completed loading / offloading bay



Completed weighbridge and retaining wall

Assignment	Client	Period / value	Evidence
LPG storage and bottling plant (≈17,100 m³) — civil interfaces: foundations, bunds and drainage	Rusororo	Final phase of construction	Project records
Fuel depot construction — 60 million litres (foundations, bunds, ancillary civils)	Rusororo	Completed	Project records
Fuel depot rehabilitation — Rwabuye	Rwabuye	Completed	Project records
Fuel depot civil works — Bigogwe	Bigogwe	Completed	Project records
National LPG Supply & Distribution Strategy	MINICOM	35,945,903 RWF	Certificate of Good Completion
Fuel Marking Feasibility Study (independent country assessment)	MINICOM	49,870,200 RWF; 2024/2025	Certificate of Good Completion
Business Plan — LPG Filling Plant, Kamonyi District	Lake Petroleum Rwanda	2015	Work Completion Certificate

Assignment	Client	Period / value	Evidence
Pipeline & Instrumentation Diagrams (P&ID), Brewery Gisenyi	BRALIRWA	2018	Certificate of Completion
110 kV Transmission Line & Substations — technical feasibility (sub-consultancy)	IBC Group for REG	Mar–Jun 2020	Work Completion Certificate

References, certificates and project photographs are available on request. IDCC confirms its readiness to mobilise plant and personnel for the immediate construction of fuel depot civil works as a short-term measure to strengthen national strategic reserve capacity.