



COMPANY PROFILE



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JREE

ABOUT US



WHO ARE WE

INTRODUCTION

JREE Environment Limited (JEL) is a local limited company duly registered under laws of Tanzania with registration number 159015726. JREE Environment Limited (JEL) is a company that provides environmental solutions and services to several of its clients.

The company has grown to become a key player in Tanzania, supplying and installing environmental equipment for waste management, clean energy, and other environmental projects. Serving the mining, construction, and agricultural sectors, JREE Environment Limited provides solutions for NGO's, Government, and large corporations.

Dedicated to sustainability and innovation, JEL offers top-quality equipment tailored to clients' needs. Their expert team uses modern techniques to achieve sustainable environmental management. Success is built on strong relationships with government, businesses, and the community, focusing on science, trust, and harmony. JREE Environment Limited helps clients develop responsibly while protecting the environment for future generations.

JREE

OUR VISION

We aspire to lead in environmental stewardship, recognized for our commitment to excellence and positive impact on communities.

OUR MISSION

To deliver innovative environmental solutions, addressing challenges and promoting sustainability.





OUR CORE VALUES



Integrity: We uphold the highest standards of honesty, ethics, and transparency in all our dealings.



Sustainability: We are committed to promoting environmental sustainability and minimizing our ecological footprint.



Safety: We prioritize the safety and well-being of our employees, clients, and communities in all aspects of our operations.



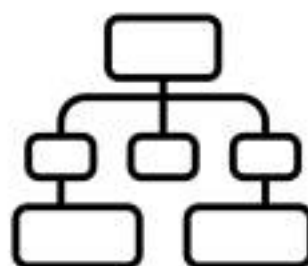
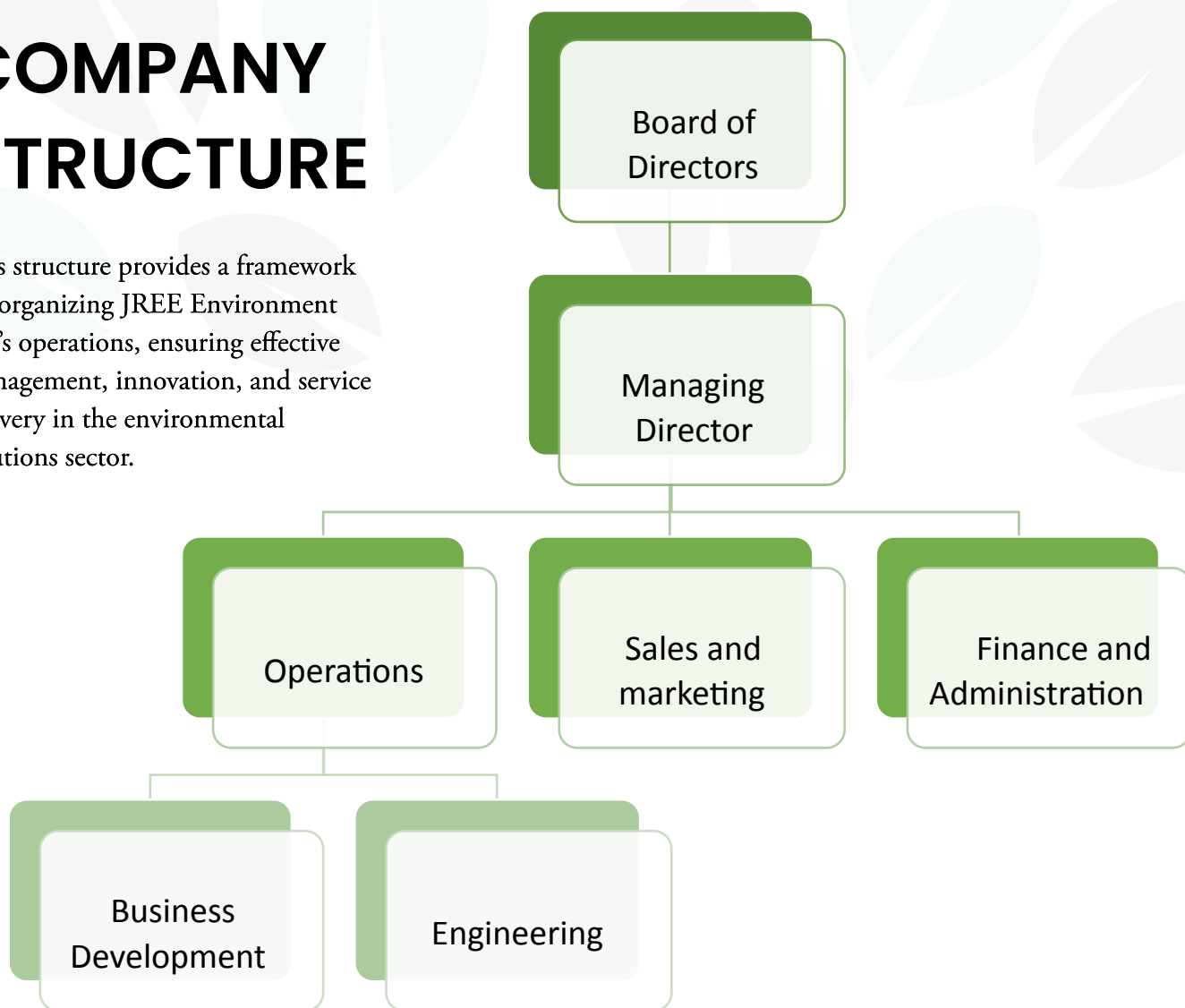
Technical Innovation: We embrace continuous innovation and strive to develop cutting-edge solutions to environmental challenges.



Environmental Stewardship: We take proactive measures to protect and preserve natural resources, contributing to a cleaner and healthier planet.

COMPANY STRUCTURE

This structure provides a framework for organizing JREE Environment Ltd's operations, ensuring effective management, innovation, and service delivery in the environmental solutions sector.





JREE

PRODUCTS
& SERVICES



DAM INSTRUMENTATION

JREE Environment Ltd offers advanced dam instrumentation solutions providing comprehensive monitoring and measurement capabilities for dam infrastructure.

01 RANGE OF INSTRUMENTS

Piezometers: Measure water pressure within dams to monitor water levels and detect potential leaks or seepage.



Standard Piezometers (VW)
| Model 4500S(V) ·
4500SH · 4500AL(V)



Small Diameter Piezometers
(VW) | Model 4500B(V) ·
4500C



Drive Point Piezometers
(VW) | Model 4500DP



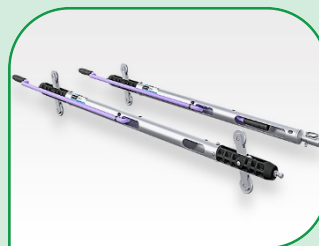
Casagrande Piezometer Tip |
Model 4590

Tilt-meters: Detect movements or tilts in dam structures, providing early warning of potential failures

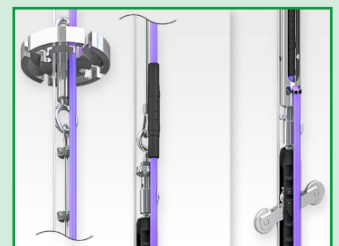


Tiltmeter (VW) | Model 6350

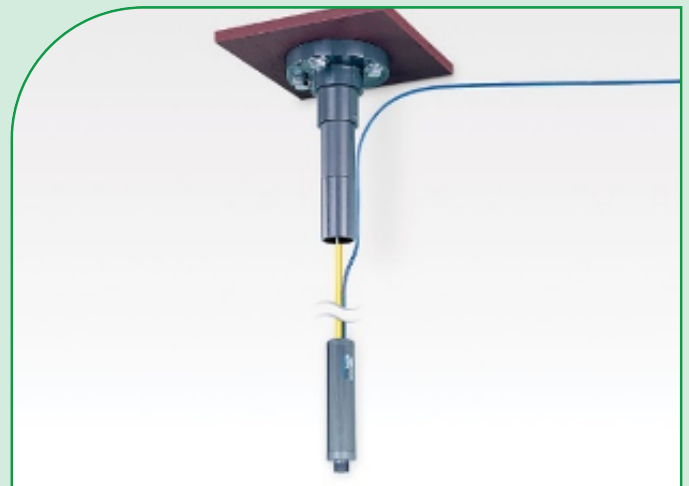
Inclinometers: Monitor structural stability by measuring changes in slope or inclination of dam embankments.



Vertical In-Place Inclinometer System (MEMS) | Model 6180



Settlement Sensors: Measure settlement or subsidence of dam foundations or structures, indicating potential stability issues.



Borehole Type Settlement System (VW) | Model 4600

02

INSTRUMENTATION
SERVICE

These services are essential for assessing soil conditions, foundation stability, and groundwater levels in dam construction and monitoring projects.

Cone Penetration Test (CPTu):

- Measures soil properties and stratigraphy.
- Essential for dam foundation design and safety assessment.



Cone Penetration Test with Pore Pressure Measurement (CPTu)

Standard Penetration Test (SPT):

- Determines soil resistance and compaction.
- Integral for characterizing foundation materials and optimizing dam design.



Sonic Drilling:

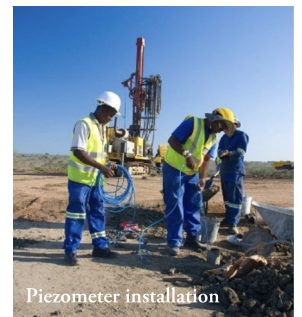
- Extracts high-quality soil samples with minimal disturbance.
- Provides precise sampling for geotechnical investigations in dam construction.
- For Tailing Storage Facilities (TSF) and water dam projects, including beach and foundation areas.



03

INSTALLATION AND
SERVICE

Expert installation and calibration services ensure accurate measurement and reliable performance, meeting project specifications and regulatory requirements.



Piezometer Installation

04

CALIBRATION AND
MAINTENANCE

Regular calibration checks and preventive maintenance to maintain optimal performance and data accuracy of instrumentation systems.

05

COLLABORATION
AND SUPPORT

Close collaboration with clients to tailor solutions to their specific needs, along with ongoing technical support, training, and assistance for successful implementation and operation.

APPLICATIONS:

- Hydropower dams.
- Irrigation dams
- Water supply dams
- Environmental Impact Assessment



LINERS

JREE Environment specializes in high-quality geosynthetic solutions for industries like mining, civil engineering, environmental protection, and infrastructure development. They focus on three key products: geomembranes, geotextiles, and geosynthetic clay liners (GCLs), each tailored to meet specific client needs.

01 GEOMEMBRANES:

- High-Density Polyethylene (HDPE) Geomembranes
- Polyvinyl Chloride (PVC) Geomembranes



02 GEOTEXTILES:

- Non-woven Geotextiles
- Woven Geotextiles
- Composite Geotextiles
- High-Strength Geotextiles
- Drainage Geotextiles



03

GEOSYNTHETIC CLAY LINERS (GCLs):

- Bentonite-based GCLs
- Polymer-enhanced GCLs
- Self-sealing GCLs



APPLICATION IN MINING

- Tailings Management; Prevents seepage and contamination.
- Heap Leach Pads; Contains leachate and protects groundwater.
- Mine Closure and Rehabilitation; Aids landfill management and erosion control.
- Pond and Pit Liners; Ensures liquid containment and water management.
- Erosion Control; Stabilizes slopes and prevents soil loss.
- Drainage Systems; Manages water and seepage.
- Vegetation Establishment; Promotes growth and soil stabilization.

APPLICATION IN OTHER SECTORS

- Road construction, slope stabilization.
- Employed in landfill liners, erosion control, and soil remediation projects.
- Railway stabilization, shoreline protection, stormwater management



PIPES

We offer a comprehensive range of pipes. Our pipes serve as essential conduits in various environmental and industrial applications, providing reliable conveyance and distribution of fluids, gases, and materials.

TYPES OF PIPES AVAILABLE:

- 1 PVC (Polyvinyl Chloride):** Lightweight, durable, and corrosion-resistant, ideal for water supply, drainage, and irrigation.
- 2 HDPE (High-Density Polyethylene):** Known for its strength, flexibility, and chemical resistance, used in sewage systems, culverts, and industrial piping.
- 3 Steel:** Strong, durable, and capable of withstanding high pressure and temperature, commonly used in industrial, oil and gas, and construction sectors.



INSTALLATION

- Trenching and backfilling for underground installations,
- Horizontal Directional Drilling (HDD) for environmentally sensitive areas,
- Pipe joining methods include solvent welding, heat fusion, welding, or threading for watertight and durable connections.

APPLICATIONS

- Used in municipal infrastructure for water supply, sewage, and stormwater management.
- Employed for slurry transport, mine dewatering.
- Essential for plumbing, HVAC, and drainage systems.
- Used for irrigation and water distribution.
- Valued for their corrosion resistance, strength, and durability.



FLOW METERS

We offer modernized flow meters for open channels. These meters ensure accurate fluid flow measurement and monitoring, aiding in water resource management and environmental monitoring. We offer standard and customized solutions for various flow types, including liquid/ gas flow, slurry/ pulp, with products like open channel/closed channel.



DFM2-2 Doppler flow meter



Electromagnetic flow meter

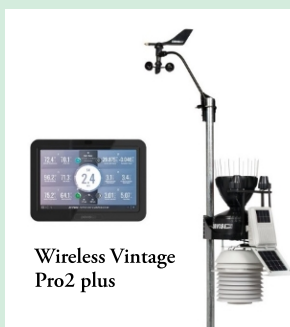
APPLICATIONS

- Monitoring water flow and regulatory compliance.
- Measuring flow rates in Irrigation Channels and monitoring flow in Drainage System.
- Environmental Monitoring.
- Monitoring water flow into hydroelectric plants.
- Monitoring flow in drainage channels and measuring flow in canals and culverts.
- Industrial Applications.



WEATHER STATION SOLUTIONS

JREE Environment Ltd offers advanced weather station solutions providing comprehensive weather monitoring and alert services for various industries.



INSTALLATION

Our weather station solutions are installed and maintained by experienced technicians, ensuring accurate and reliable data collection.



SERVICES

They offer a range of services including real-time weather monitoring, data logging, and remote access capabilities.

CALIBRATION

Our weather stations undergo regular calibration to maintain accuracy and reliability.



Alert Services: They are equipped with alert systems that notify users via SMS and email, ensuring timely response and risk mitigation.

COLLABORATION AND SUPPORT

We collaborate closely with Weathershop.co.za and Davis Vantage to provide customized weather station solutions. Our team offers comprehensive support from consultation to maintenance, ensuring accuracy and reliability. These solutions deliver valuable insights and peace of mind across industries.

APPLICATION IN MINING

- Provide data on temperature, humidity, wind speed, and precipitation.
- Help monitor safety conditions, plan operations, and manage environmental risks.

APPLICATION IN OTHER SECTORS

- **Agriculture:** Optimize crop management and irrigation.
- **Construction:** Ensure site safety and work scheduling.
- **Transportation:** Improve route planning and emergency response.

ROCKFALL PROTECTION

Rockfall protection systems are essential for safeguarding infrastructure, roads, and communities from the hazards posed by falling rocks. JREE Environment Limited provides comprehensive solutions for rockfall protection, leveraging advanced technology and engineering expertise to ensure safety and stability in areas prone to rockslides and debris flows.

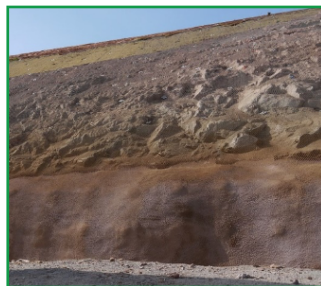
TYPES OF ROCKFALL PROTECTION SYSTEMS

01 ACTIVE SOLUTIONS

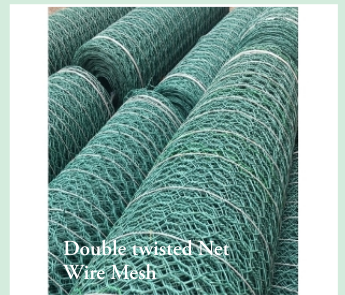
Rock Bolts and Anchors: Reinforcement systems that stabilize rock masses by anchoring them to the stable bedrock, preventing movement and detachment.



Shotcrete: A concrete mixture sprayed onto rock surfaces to provide support and prevent rockfall.

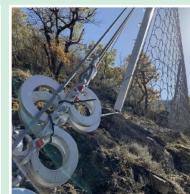


Wire Mesh and Netting: Installed directly on rock faces to stabilize loose rocks and prevent them from falling.



02 PASSIVE SOLUTIONS

Rockfall Barriers: Flexible barriers made from high-tensile steel wire mesh designed to absorb the energy of falling rocks and stop them before they reach infrastructure.

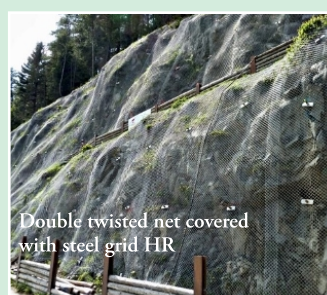


Hybrid and dynamic rockfall barriers

Rockfall Netting: Passive netting installed over slopes to prevent loose rocks from detaching and falling.



Rockfall Drapes: Netting that drape over rock faces to guide falling debris safely to the ground.



Catch Fences: Rigid barriers placed at the base of slopes to catch and contain falling rocks.



Bio Engineering: Helps with erosion protection. Erosion control blanket



KEY FEATURES AND BENEFITS

- **Durable Materials:** Utilizes high-tensile steel wire mesh and netting to withstand extreme forces.
- **Versatile Applications:** Suitable for various terrains, including steep slopes, cliffs, and unstable rock faces.
- **Customizable Solutions:** Tailored designs to meet specific site conditions and project requirements.
- **Long-Term Stability:** Provides permanent protection with minimal maintenance.

INSTALLATION SERVICES

- Site Assessment.
- Design and Engineering.
- Professional Installation.
- Quality Assurance.

MAINTENANCE AND SUPPORT

- Scheduled inspections to monitor system integrity and performance.
- Prompt repair and reinforcement services to address any damage or wear.
- Ongoing technical assistance and advice for optimal system maintenance.

APPLICATIONS

- Infrastructure Protection
- Residential Areas
- Mining and Quarrying
- Tourist Sites



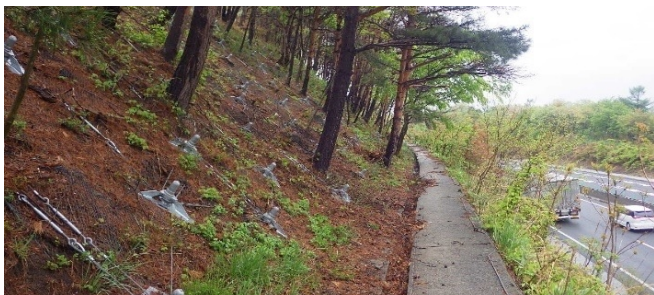
Erosion and Landslide Solutions

JREE Environment Ltd specializes in providing advanced solutions to prevent erosion and landslides, safeguarding infrastructure and natural landscapes. Our innovative products and techniques are designed to stabilize soil, protect against erosion, and mitigate landslide risks in various environments.

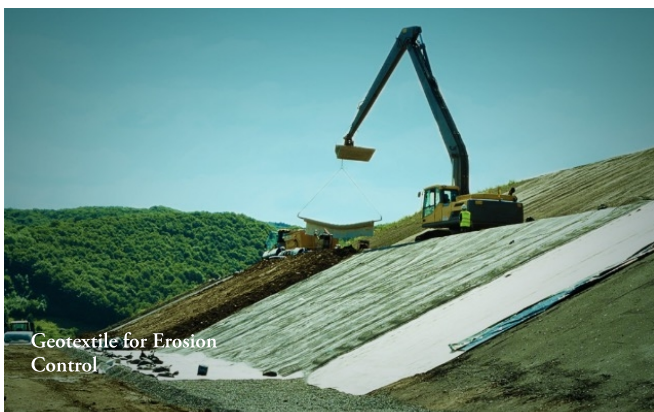
TYPES OF SOLUTIONS

01 EROSION CONTROL PRODUCTS

Plants and Vegetation: Utilizing native plants to stabilize soil and reduce erosion, effective in bioremediation and enhancing slope stability.



Geotextiles: Permeable fabrics used to reinforce soil, prevent erosion.



Erosion Control Blankets: Biodegradable mats placed on slopes to stabilize soil and support seed germination, ideal for steep slopes and recently disturbed soils.



Erosion Control Blankets

Turf Reinforcement Mats (TRMs): Synthetic mats that provide long-term erosion protection and support vegetation in high-flow channels and slopes.



Turf Reinforcement Mats

02 LANDSLIDE MITIGATION PRODUCTS

Gabions: Wire mesh baskets filled with rocks, used to stabilize slopes and prevent erosion.



Gabions

Geocell: Rigid plastic grids used to reinforce soil and stabilize slopes.



Geocells for landslide prevention

Retaining Walls: Engineered structures designed to hold back soil and prevent landslides, used in residential, commercial, and infrastructure projects.

Geogrids: Geosynthetic material used to reinforce soils and similar materials.



Geogrids

Soil Nailing: A technique involving the insertion of steel bars into slopes to provide stability and prevent landslides.



Soil Nailing for Landslide mitigation

APPLICATIONS

- Mining
- Road and/or Highway Engineering
- Civil Engineering
- Environmental Protection
- Infrastructure Development
- Agricultural sector

DUST SUPPRESSION SOLUTIONS

JREE Environment Ltd provides advanced dust suppression equipment, including atomized mist systems, soil stabilization products, and polymer dust control solutions. These solutions ensure regulatory compliance, promote a safe and healthy work environment, and minimize environmental impact.

KEY FEATURES AND BENEFITS

- **Effective Dust Control:** Advanced technologies efficiently suppress airborne dust particles, reducing health risks and environmental pollution.
- **Cost-Effective Solutions:** Minimize water usage and operational costs while maximizing dust control effectiveness.
- **Environmental Sustainability:** Eco-friendly formulations and biodegradable additives promote sustainability and responsible resource management.

SERVICE AND SUPPORT

- Expert Consultation.
- Professional Installation.
- Comprehensive Training.
- Regular Maintenance.



INSPECTION CAMERA

JREE Environment Ltd offers advanced inspection camera equipment designed for high-definition visual inspections in industrial and environmental settings. Our solutions feature pan-and-tilt functionality, integrated lighting, and rugged construction for reliable performance in challenging environments.

SPECIFICATIONS

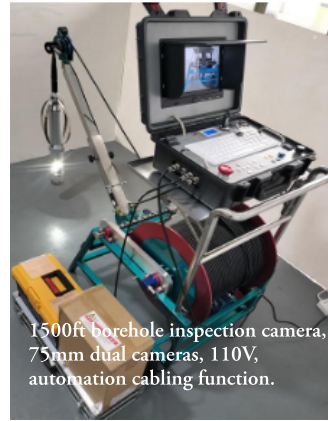
- 100m-2500m borehole inspection cameras used in water wells, boreholes, geothermal wells, gas wells and oil wells.
- One probe connection rod can connect with different camera probes such 41mm dual cameras, 42mm rotary camera, 50mm dual cameras, 75mm dual cameras and 90mm rotary camera.



300m borehole inspection camera with 41mm dual camera, 75mm dual cameras with temperature measuring and 90mm big rotary camera with temperature measuring.

KEY FEATURES AND BENEFITS

- **Accurate Inspection:** High-resolution imaging and advanced controls ensure precise visual inspection.
- **Enhanced Visibility:** Integrated lighting and pan-and-tilt features provide optimal visibility in confined spaces.
- **Efficient Operation:** User-friendly interfaces enable efficient navigation and operation during inspections.
- **Versatile Applications:** Suitable for various industries, offering versatility in inspection needs.



1500ft borehole inspection camera, 75mm dual cameras, 110V, automation cabling function.



SERVICES AND SUPPORT

- **Consultation and Installation:** Tailored solutions and professional installation services.
- **Training and Maintenance:** Comprehensive operator training and ongoing maintenance support.
- **Technical Support:** Prompt assistance and troubleshooting services for any issues.

APPLICATIONS

- Mining Operations
- Water supply and Sewage system
- Gas and Oil





TRANSPORTATION SERVICES

We offer a comprehensive range of transportation services tailored to meet the diverse needs of our customers.

OUR TRANSPORTATION SERVICES INCLUDE

- **Fieldwork Support:** We offer logistical support for site visits, sample collection, and monitoring operations, ensuring efficient transportation for field teams.



CLIENT BASE

JREE Environment Ltd has worked with a range of clients, in a variety of industries, to help them create a sustainable company, these include;



OUR PARTNERS

JREE Environment Ltd has worked with a range of clients, in a variety of industries, to help them create a sustainable company, these include;





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“ Choose JREE Environment Limited for
superior environmental solutions and services that
make a difference. Let's work together towards a
cleaner, greener future. ”