RAM

Geotechnical
& Asset Maintenance

irata International
Industrial Rope Access Trade Association
MEMBER
4091/O

Front cover: Slope remediation, Mount Victoria Pass, NSW

Left: Rockfall protection, Middlemount Mine, QLD

RIX Asset Maintenance (RAM) delivers rope access and geotechnical solutions in environments where access is constrained, risk is elevated, and execution must be precise.

RAM operates across infrastructure, mining, and energy sectors, combining IRATA-certified rope access with engineering-led delivery, often where conventional access is not viable.

Within the RIX Group, RAM is backed by one of Australia's largest ground engineering contractors and the global engineering capability of Ghella, supporting targeted interventions and multi-site programmes alike.

RAM is increasingly supporting the renewable energy sector, with dedicated capability in wind turbine inspection, maintenance, and blade repair.

Our Values

These principles guide how RAM operates across all projects, embedded in systems, training, and how work is executed on site.

Safety

Controlled execution

RAM operates in environments where the margin for error is minimal.

RAM applies IRATA rope access systems, engineered controls, and task-specific procedures to manage risk at every stage of delivery. This includes access planning, exclusion zones, rescue capability, and continuous on-site supervision.

On rope, there's no improvising. Every step is planned, supervised, and rehearsed.

Environment

Minimising impact

RAM's approach is designed to reduce disruption, particularly in sensitive or constrained environments such as road corridors, waterways, and steep terrain.

Rope access techniques remove the need for large-scale access systems, reducing clearing, heavy plant use, and ground disturbance. This enables targeted intervention while maintaining environmental controls and compliance requirements.

Smaller access systems, smaller footprints.
By design, not by offset.

Quality

Engineered outcomes, delivered in the field

Quality at RAM is defined by execution against design intent. Engineers and supervisors ensure each stage of work, from drilling and anchoring through to shotcrete application, is completed to specification.

This is supported by modern plant, trained personnel, and repeatable processes that ensure consistency across sites and conditions.

Where the design and the field don't agree, the response is engineered, not improvised.

Key Milestones

2015 RAM established, delivering asset maintenance and shutdown works in the mining sector using rope access methodologies.

Asset Maintenance | Shutdowns

2016 Expanded into geotechnical stabilisation works, including slope stabilisation and ground support systems.

Slope Stabilisation | Asset Maintenance | Shutdowns

2018 Began installing rockfall and debris protection systems, strengthening risk-mitigation capability.

Slope Stabilisation

2019 Delivered large-scale catch fence installations and complex geotechnical stabilisation projects via rope access.

Slope Stabilisation

2020 Entered the bridge inspection and maintenance sector, broadening infrastructure asset capability.

Road Infrastructure | Emergency Response (DRFA)

2024 Delivered large-scale slope stabilisation and transport infrastructure projects.

Slope Stabilisation | Road Infrastructure

2025 Expanded into dam inspection, access, and maintenance services. Achieved IRATA Probationary Membership.

Dams | IRATA Probationary Member

2026 Ongoing dam infrastructure works and maintenance delivery. Progressing to full IRATA accreditation. Expanding into renewable energy asset maintenance and inspection (wind, solar, utilities).

Dams | IRATA Fully Accredited | Renewables

irata International Industrial Rope Access Trade Association MEMBER 832749

Key Strengths

Plant Matched to Access and Conditions

RAM operates a fleet of high-reach and difficult-access equipment — production drilling rigs, high-reach plant, and shotcrete application units.

Plant is matched to site constraints, terrain, and access requirements, supporting work across steep, confined, and remote terrain.

IRATA Workforce and Scalable Deployment

RAM maintains a large team of IRATA rope access technicians, backed by engineers and geotechnical specialists.

Crews mobilise quickly and scale from targeted works to multi-crew, multi-site operations.

Execution in Difficult-Access Environments

Steep slopes, live infrastructure, and remote sites demand precise sequencing, coordination, and method selection. RAM is structured to maintain control at every stage of the work, not just the access.

Scale Through the RIX Group and Ghella

As part of the RIX Group with in-house engineering capabilities, RAM draws on additional plant, personnel, and specialist ground engineering expertise to support delivery across large-scale and multi-site programs.

Engineering-Led Delivery

Engineering oversight aligns field execution with design intent. Methods adjust to site conditions while remaining within project specification.

Core Capabilities

Rope Access & Slope Stabilisation

These disciplines are often delivered together to support geotechnical and asset maintenance works across a range of conditions and environments.

RAM's slope stabilisation capability focuses on managing geohazards and securing terrain through techniques including rockfall protection systems, mesh drapes, scaling, drilling, anchoring, and shotcrete.

RAM's rope access capability enables efficient execution of inspection, maintenance, and construction activities across difficult-access environments, including live infrastructure, confined spaces, and remote locations.

Full IRATA membership holds RAM to the international standard for rope-access safety, training, and supervision, applied across every scope and site.

Together, these capabilities allow RAM to deliver controlled, repeatable outcomes across a wide range of projects and conditions.

Our range of services

- Rock Fall Protection Barriers/ Catch Fences
- Scaling/Rock Removal, Drill and Blast
- Shotcrete
- Repairs, Maintenance, Blastings and Coatings
- Rock Fall Mesh Drapes
- Rock Bolts
- Non-Destructive Testing
- Advanced Rigging
- Emergency
- Specialist Concrete and Membrane

Slope Stabilisation

Managing geohazards and securing critical infrastructure

RAM delivers slope stabilisation works across road, rail, mining, and infrastructure environments where ground conditions impact safety and asset performance

RAM's approach combines engineering input with practical delivery methods to manage instability, control rockfall hazards, and maintain the integrity of slopes in both temporary and permanent conditions.

Works are carried out using a combination of rope access and high-reach plant, allowing installation of rockfall barriers, mesh drapes, anchors, soil nails, and shotcrete systems across steep and difficult terrain.

Methods are selected based on site conditions, access constraints, and design requirements, with sequencing and execution managed to maintain control of the work area at all times.

Rock Fall Protection Barriers/Catch Fences

RAM installs rockfall barriers that stop impact energies of up to 10,000 kJ, delivering rockfall protection and catch fences for mining, energy, and civil engineering sectors.

Rockfall Mesh Drapes

RAM installs rockfall drape systems without heavy equipment or machinery, with mesh systems available for slopes of any access difficulty, shape, or failure size. RAM partners with world leaders in rockfall protection systems.

Scaling/Rock Removal, Drill and Blast

Whether the job calls for hand tools, excavators, or drill and blast, RAM delivers contouring and reprofiling safely and efficiently. The same approach has been applied across mining and construction sectors.

Rock Bolts

RAM handles drilling for anchors and bolts in any access condition. Portable rope access equipment, production crawlers, and anchoring rigs reach difficult and high-access locations.

Shotcrete

The RIX Group has established itself as Australia's largest ground engineering shotcrete applicator, spraying in excess of thirty thousand cubic metres of shotcrete across the Asia Pacific each year, alongside several hundred thousand metres of anchors, soil nails, and rock bolts.

Rope Access

Access and execution to reduce setup time and limit disruption

RAM uses IRATA-certified rope access systems to carry out inspection, maintenance, and construction works in challenging environments.

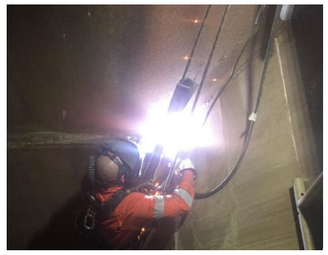
Rope access allows work to be performed safely and efficiently at height, over water, within confined spaces, and across live infrastructure, without the need for large-scale access systems.

This approach reduces setup time, limits disruption to surrounding operations, and provides a controlled method of accessing complex work areas.

Rope access is integrated with RAM's broader capabilities, supporting geotechnical works, asset maintenance, and structural repairs across a wide range of sectors.

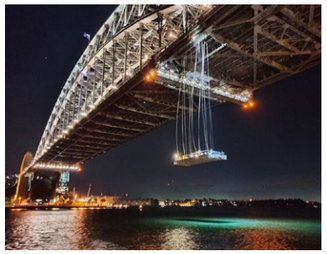
Asset Maintenance

RAM undertakes rope access non-destructive testing services for corrosion protection on plant and equipment in the mining, refining and energy sectors.



Repairs, Maintenance, Blasting and Coatings

RAM's rope access teams are multi-disciplined tradespeople, undertaking difficult-access repairs and maintenance including (but not limited to) blasting and coatings, welding, cutting, hot works, fitting, and confined space.



Advanced Rigging

The RAM rope access crews come self-contained with certified riggers and doggers and are capable of undertaking complex lifting plans in difficult access locations.

Specialist Concrete

RAM's association with The RIX Group provides access to the latest concrete and membrane techniques alongside modern plant and equipment, deployable in the most difficult-access locations using scaffold, boat, EWP, or rope access techniques.

Hervey Range
Rock Bolts & Debris Barriers

Slope Stabilisation

The 2019 North Queensland Floods caused significant slope failures and debris-flow risks along the critical Hervey Range regional transport corridor.

RAM delivered a comprehensive stabilisation package including 10,000 m² of structural shotcrete, debris barriers rated to 180 kN/m/hfl, and strategic rock bolting.

Using rope-access and high-reach drilling systems in challenging high-temperature conditions, RAM restored the corridor's long-term safety and resilience, reinstating public access and regional connectivity.

Currumbin Creek Rd
Gabion Baskets

DRFA Event 22AFI

The slopes along the road are continuously affected by the tidal movements of Currumbin Creek and the deterioration required immediate intervention to ensure public safety and maintain the road's usability.

RAM was engaged by SEE Civil as a subcontractor to perform the installation of 893 gabion baskets - at four different site locations - with a volume over 1,100 cubic meters. They were filled with design-specified rock and RAM utilised fall arrest and rope access support to ensure crew safety.

Further information and Case Studies are available online
www.rixam.com.au/projects/all

Eraring Power Station
Energy Sector

Non-Destructive Testing & Maintenance

RAM undertook multiple shutdown maintenance campaigns at Origin Energy's coal-fired power station, employing IRATA-qualified rope access technicians for high-risk boiler cleaning and inspection work.

Extensive ultrasonic thickness testing and NDT reporting under NATA signatory protocols were completed using rope access as the primary access method. The work ensured safe preparation for welding and NDT trades across complex internal plant geometry.

Rio Tinto Gove Refinery
Industrial Maintenance

Kiln Cladding Removal

RAM supplied IRATA-qualified technicians to remove cladding and insulation from inaccessible kilns at the Gove Refinery in temperatures exceeding 35°C.

Scaffolding and cranes were impractical due to cost and safety constraints; advanced rope access systems enabled safe access and removal operations. Full PPE and innovative rigging were deployed for NDT testing and weld repairs. The project was completed ahead of schedule with client commendations on safety performance.

Cooroy Rail
Above Live Railway – Infrastructure

Slope Stabilisation

RAM delivered slope stabilisation works along the North Coast Line above active Queensland Rail operations, eliminating rockfall risk without operational interruption.

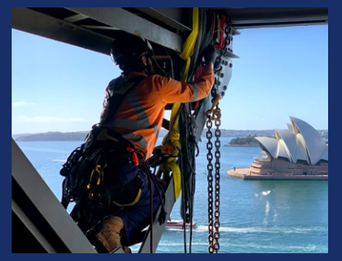
The 3-month project included 4,820 m² of scaling, 917 m of soil nails, mesh drape installation, and V-drain cleaning—all completed safely using rope access due to overhead electrical constraints. Proactive safety recommendations and collaborative delivery ensured project success with zero incidents.

Beyond Slope Stabilisation

While slope stabilisation and rope access remain at the core of RAM's operations, capability extends into specialised applications across infrastructure, mining, and renewable energy sectors.

Dam Works

Inspection, remediation and strengthening in critical environments



Bridge Repairs & Maintenance

Operating in live, high-exposure environments

Mining Works

Specialist access and stabilisation in operational environments

WTG Maintenance

Inspection, repair and blade services

Dam Works

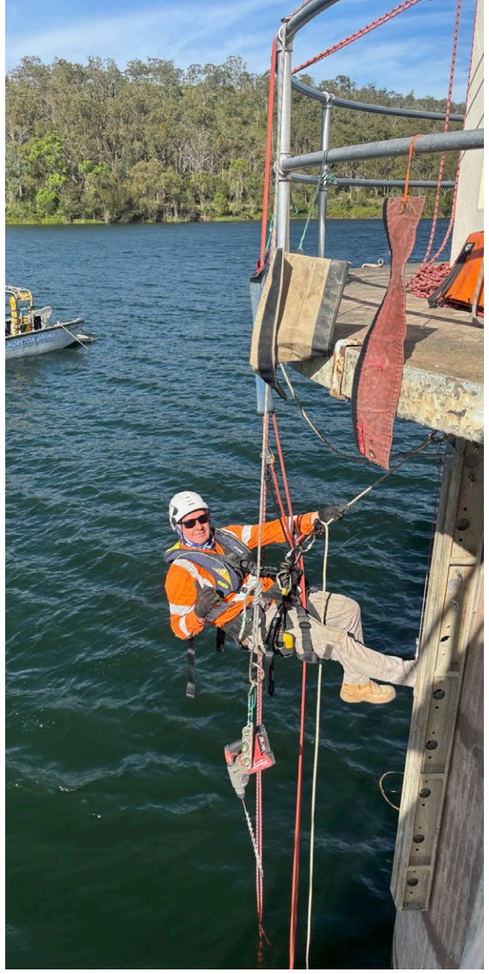
Inspection and maintenance without operational interruption

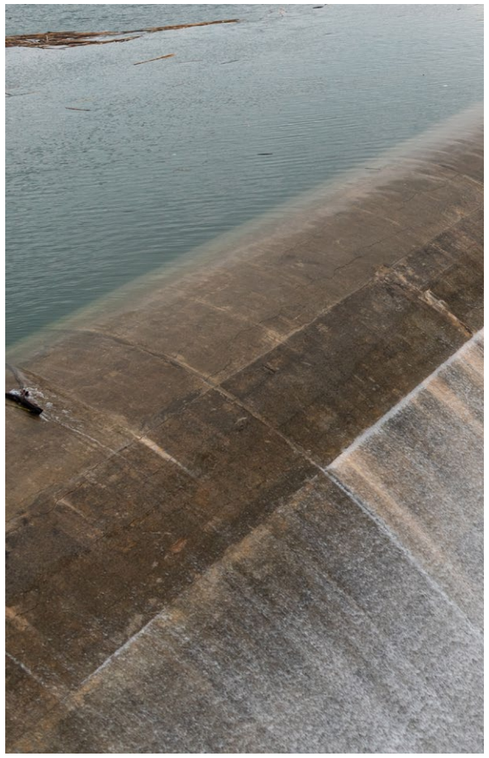
Critical water infrastructure cannot be taken offline. RAM stages inspection, maintenance, and remediation works around the asset's operating regime, not against it.

Rope access and high-reach methods give targeted reach into spillways, abutments, and dam structures without the temporary works, stage scaffolding, or partial dewatering conventional access demands. Programmes are staged around operational regimes and environmental controls, with engineering oversight from inspection brief to closeout.

Typical scope:

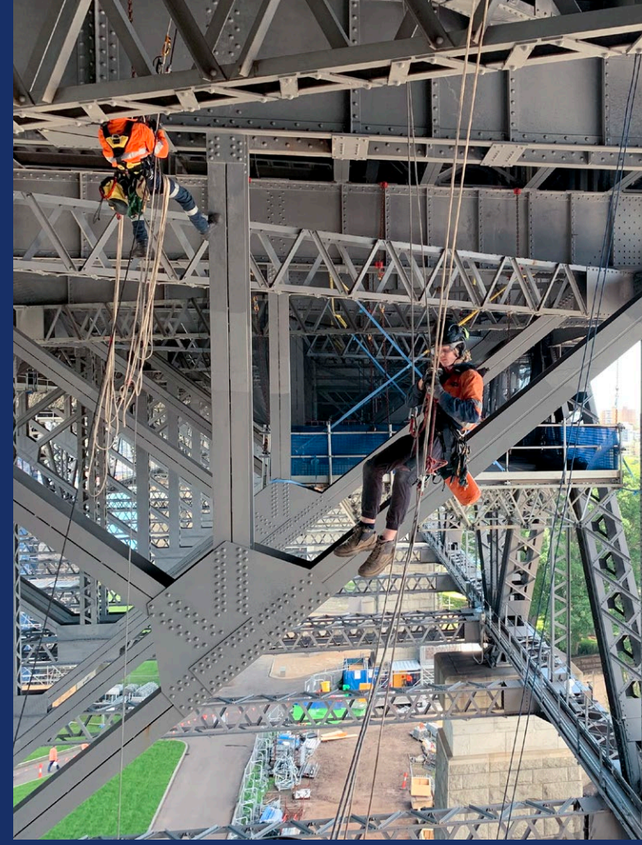
- Condition inspection and NDT
- Concrete repairs and structural maintenance
- Anchor installation and stabilisation works
- Protective coating systems





On a bridge, the asset and the road over or under it are inseparable. Inspection and repair happen without taking either out of service.

Live traffic above, water or rail below, public exposure throughout. RAM reaches soffits, fascia, and parapet zones with rope access and engineered rigging, without lane closures or temporary works platforms. The access method is the traffic-management strategy. Programmes run within transport authority permit frameworks.

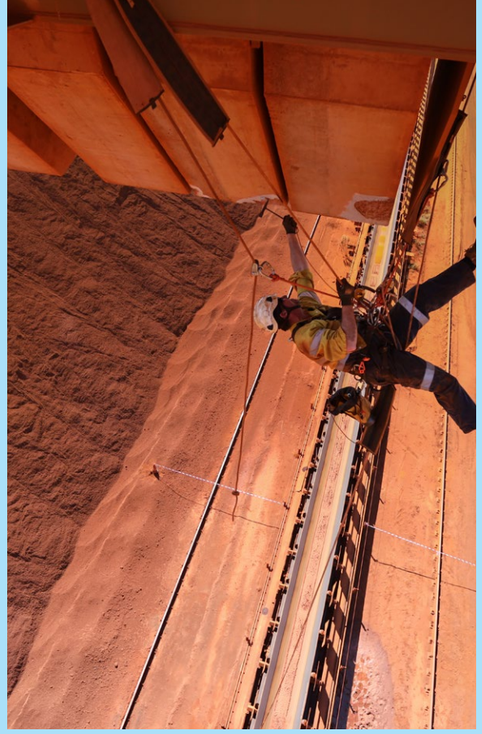


Typical scope:

- Condition inspection and NDT
- Concrete and steel repairs
- Protective coating systems
- Structural inspection across deck, soffit, and parapet

Bridge Repairs & Maintenance

Operating in live, high-exposure environments



Mining Services

Shutdown work, maintenance, and stabilisation: sequenced for production

Mine shutdowns run on a clock. RAM combines maintenance, stabilisation, and rope-access scopes into a single window. One crew, one programme.

Mining sites operate on tight tolerances: production, permits, and emerging ground risks all change shift by shift. RAM mobilises rope access crews quickly, scales them to the scope at hand, and works inside the site's existing safety and permit systems. When shutdown windows open, multiple scopes combine into a single mobilisation.

Typical scope:

- Highwall inspection and stabilisation
- Stockpile and processing infrastructure maintenance
- Geotechnical stabilisation and ground support
- Rope-access asset maintenance during shutdowns

Wind Turbine Generator Maintenance

Inspection, repair and blade services

Wind energy assets ask for three things at once: IRATA-aligned rope access, fast mobilisation across remote sites, and methods proven on heavier industrial work. RAM is configured for all three.

The rope access discipline RAM has proven across mining, industrial, and geotechnical work transfers directly to wind energy assets. Procedures, certifications, and supervision regimes are the same. Rope access reaches blade and tower work while turbines remain in service, supported by rapid mobilisation across remote sites.

Typical scope:

- Lightning protection systems
- Laminate and surface repairs
- Trailing edge and bond line repairs
- Protective coatings
- Tower and structural inspection

Enterprise Gold Mine, Rockfall

Rockfall Drape Installation

RAM mobilised a complete rope access team to Kalgoorlie within 24 hours to install 8,000 m² of Geobrugg DELTAX® mesh drape at the Enterprise Gold Mine.

Rapid mobilisation and smooth installation prevented major operational delays, allowing the mine to resume production without financial impact.

The project demonstrated RAM's capability to coordinate complex logistics and deliver critical safety systems in remote operational environments.

Cooby Dam Over-Water Platform Installation

Works were delivered over water within a reinforced structure, where drilling tolerances required precise anchor placement.

Each location was scanned prior to drilling, with non-compliant positions rejected and reset.

A rope access crew completed anchoring and platform installation within a constrained work area, with sequencing controlled to maintain structural integrity.

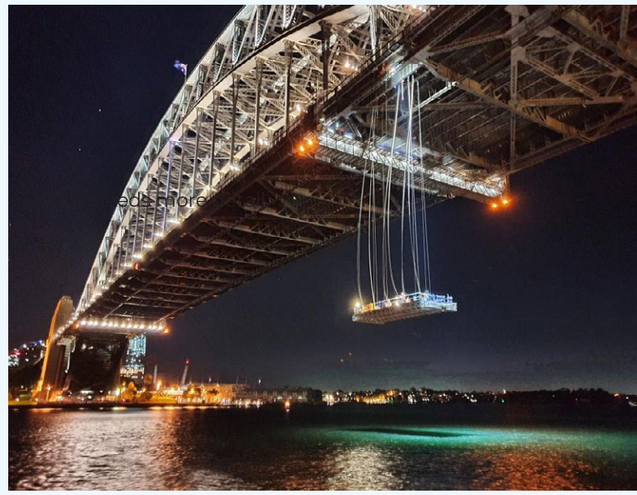
Completed to programme with zero incidents.

Sydney Harbour Bridge Maintenance & NDT

RAM was sub-contracted over a two-year programme to deliver specialised maintenance on the Sydney Harbour Bridge, with strict operational requirements to maintain uninterrupted traffic flow.

Scope included non-destructive testing, surface preparation and protective coating systems, advanced rigging, and access platform installation across complex structural geometries — work delivered exclusively from rope-access and engineered-platform positions to keep deck and arch structure operational at all times.

Completed with zero incidents, this demonstrated RAM's capability to deliver high-consequence work on visible, public-facing infrastructure under continuous-operations constraints.



Middlemount Mine Rock Fall Protection

Design & Installation

Following a high-wall failure that destroyed mining equipment at Peabody's Middlemount Mine, RAM designed and installed a comprehensive rock fall protection system to protect personnel during equipment recovery.

Collaboration with Geobrugg on drape design, combined with 100-tonne crane and rope access installation by IRATA crews, delivered a turnkey solution within budget and on schedule.

All work completed with zero incidents.

Further information and Case Studies are available online
www.rixam.com.au/projects/all

Teams of expert
IRATA personnel ready
within 24 hours.

Emergency Response

RAM has established itself as a leader in geotechnical and emergency response services, delivering dependable solutions that protect communities and infrastructure.

RAM is ready to attend to damage caused by:

Bushfires
Flooding
Landslides
Cyclones
Earthquakes

The full Emergency Response Capabilities brochure is available on request.

Case Study Examples

Mt Tamborine, QLD
Rockfall hazard

DRFA Event 21C

A significant rock fall hazard required a slope stabilisation solution to make the Tamborine Mountain Road safe.

This high-level location could only be accessed using rope access techniques and RAM were contracted to install anchoring and Geobrugg TECCO® Mesh as well as rock fall barriers.

Cunningham Highway
Bushfire

Severe bushfires in 2019 caused extensive damage to a 2 km section of the highway

The reconstruction design was informed by detailed LiDAR, photogrammetry, and 3D slope modelling to map instability zones. RAM was engaged to undertake specialist rope-access ground-engineering works as part of the highway's reconstruction program, restoring safe connectivity and improving long-term slope resilience within the environmentally sensitive Main Range National Park and Gondwana Rainforests World Heritage Area.

We have the network

Longstanding and valued relationships ...

... with specialist contractors, emergency response services, and government organisations support rapid mobilisation and confident delivery.

Backed by Rix Group and Ghella

With extended capabilities through the RIX Group, one of Australia's largest ground engineering contractors, and in-house engineering capabilities, RAM brings both regional depth and international capability to every project.

RAM is ready to respond quickly, effectively, and at scale.

Scale, expertise, proven execution. That's the foundation.

RIX Asset Maintenance (RAM) delivers specialist rope-access and difficult-access solutions across civil and construction engineering, maintenance, and mining projects. RAM operates throughout Australia, New Zealand, and the greater Asia-Pacific region.

RAM

WWW.RIXAM.COM.AU

RAM is the rope access and slope stabilisation specialist subsidiary of The RIX Group, backed by additional plant, personnel, and ground engineering expertise, plus the global engineering capability of Ghella.

irata International
Industrial Rope Access Trade Association
MEMBER
8127/O

OFFICES

WESTERN AUSTRALIA

Capital Square
Level 25
3/1 Spring Street
Perth WA 6000

NEW SOUTH WALES

Edward Park Unit 1
274 Captain Cook Drive
Kurnell NSW 2231

12 Kanimbla Street
Katoomba 2780

QUEENSLAND

Unit 1/5
Enterprise Street
Molendinar QLD 4214

Unit 5/33-35 Owen Street
Craiglie Qld 4877

GET IN CONTACT

PH: 1300 RIX ASSET

estimating@rixam.com.au

employment@rixam.com.au

accounts@rixam.com.au