AZMET TECHNOLOGY & PROJECTS

SERVICES, CAPACITY, RESOURCE AND EXPERIENCE STATEMENT



AZMET
TECHNOLOGY & PROJECTS

AZMET would like to thank the Reader for the opportunity to present our applicable company structure, services, capacity, and experience.

AZMET Technology & Projects is an internationally recognized, multi-disciplinary engineering firm specializing in the development, marketing, and sales of innovative products and advanced process technologies in the mineral beneficiation industry.

AZMET is familiar with various global engineering standards and certifications for project executions.

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Our capabilities and experience will be highlighted as follows:

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1. AZMET PRODUCTS AND TECHNOLOGY SERVICES

AZMET Technology & Projects stands at the forefront of mineral processing innovation, setting the industry standard as a premier supplier of cutting-edge products and process technologies. As a globally recognized, multi-disciplinary engineering firm, we revolutionize mineral beneficiation with groundbreaking solutions that enhance efficiency, sustainability, and profitability. Our world-class products and technologies are backed by unparalleled engineering design and expert project management, ensuring seamless execution and maximum value for our clients.

When it comes to gold processing excellence, AZMET is the name the world trusts.

AZMET's success is built on four core pillars that drive our industry-leading innovations and exceptional service:

Products

AZMET's product range includes:

- Solution Wire Samplers
- Gold Desorption and Recovery Plants
- Direct Fired Elution Heating System
- Modular Acid Wash and Elution Systems
- Modular Reagent Plants
- Ammonia Gas Scrubbers

AZMET's innovative product offering through strategic development, marketing and sales agreements with AZTEC Mining:

- AZTEC Upflow Reactor (AZ-UFR)
- AZTEC Carbon Transfer Pump (AZ-CTP)
- AZTEC Carbon to Metal (AZ-CTM)
- AZTEC Bubble Pipe Plates (AZ-BPP)
- AZTEC Gas Scrubber (AZ-GSC)

Process Technologies

At AZMET, we are dedicated to pushing the boundaries of what's possible in the mining industry by continuously seeking value-added products and technologies to enhance our in-house offerings. One of our valued clients, AZTEC Mining, shares our innovative mindset. Their products and technologies perfectly complement AZMET's commitment to the ongoing development and improvement of mineral beneficiation.

AZTEC's innovative solutions:

- AZTEC Cyanide Reduction Process (AZ-CRP)
- AZTEC Copper Elution Process (AZ-CEP)
- AZTEC Mercury Scrubber System (AZ-MSS)

Research and Development

At the heart of our operations is a commitment to groundbreaking research and development, driving advancements in mineral processing. Our dedicated R&D facility transforms innovative concepts into commercially viable solutions, optimizing efficiency while prioritizing sustainability. By refining extraction and processing methods, we enhance value creation and close the value chain loop with environmentally responsible practices. Through in-house innovation and strategic collaborations, we deliver cutting-edge technologies that redefine responsible mining for a more sustainable future.

AZMET, GLOBAL SPECIALIST IN THE SUPPLY OF INNOVATIVE PRODUCTS AND TECHNOLOGIES FOR INCREASED GOLD RECOVERIES!

Engineering & Management

At AZMET, our strong organizational ethos aligns with the core values of our clients which are based on accountability, mutual respect, professionalism, and expertise. We are committed to ethical conduct, integrity, dedication, and passion in all we do. Our services are designed to **add value** for Mining Houses and Engineering Consulting Firms, benefiting all stakeholders.

Process Engineering Services include:

- Trade-off studies to show comparative benefits of AZMET's offerings
- Process Flow Diagram (PFD) integration
- Equipment sizing and selection
- Product and Technology Process Descriptions
- Plant Layout Integration
- OPEX - Equipment and Process Technology Operating Costs
- Reagent Make-up & Dosing Systems
- Control Philosophies
- Product and Technology Test Work
- Participation in Client HAZOP studies, where applicable to proprietary equipment
- Functional Specifications
- Operating Manuals
- Commissioning Procedures
- Commissioning Supervision

Project Engineering Services Include:

- Project Management
- Project Engineering
- Procurement
- Logistics
- Product GA and layout drawings including 3D capabilities

2. AZMET COMPANY

AZMET employment methodology is to employ highly multi-skilled personnel, including

- Managers
- Mechanical Engineers
- Process Engineers
- Procurement & Cost Control Employees
- Civil & Structural Engineers
- EC&I Engineers
- Engineering Designers

AZMET Management & Staff includes the following:

- Qualified Person (QP)
- Professional Engineers (Registered with the Engineering Council of South Africa)
- Project Management Professionals
- Degrees
  - Master of Business Administration (MBA)
  - Masters in Chemical Engineering (M.Eng)
  - Honours in Chemical Engineering
  - Bachelor of Engineering Degrees (B.Eng)
    - Mechanical
    - Chemical (with specialization in Mineral Processing)
    - Metallurgical
- Qualified SHE Officer
- Qualified Designers
- Qualified and Trained Procurement & Cost Control personnel
- Administration & Document Control
- Cleaning & House Keeping

3. AZMET CAPACITY STATEMENT

Current Capacity

AZMET's current capacity for product and technology executions are as follows:

- Current Staff compliment has the capacity to execute projects up to the value of USD150 million

4. APPLICABLE AZMET REFERENCE LIST

AZTEC

Test Work References:

- Barrick
- GPM
- DRD Gold
- Sibanye Stillwater
- Pan African Resources
- Nevada Gold Mines
- Clients with Non-Disclosure Agreements in place

Barrick Gold Corporation Execution Project:

- Kibali Gold Mine – AZ-CRP supply, installation and commissioning

AZMET

AZMET Technology and Projects has executed the following projects for BARRICK

- Bulyanhulu Gold Mine
  - Design & Engineering, Upgrade Project
- Tongon Gold Mine
  - Crusher upgrade design and capital cost estimate study
  - Quaternary Crushing & Screening Upgrade Project, including installation and commissioning (±$3 million CAPEX)
  - Goldroom scrubber Project, including design, installation and commissioning
- Kibali Gold Plant
  - Desliming Cyclones SMPP Project, including installation and commissioning (±$1.3 million CAPEX)
  - Carbon Management System Training and Optimisation

AZMET Desorption Recovery Plants

AZMET Technology and Projects also executed the following Gold Projects

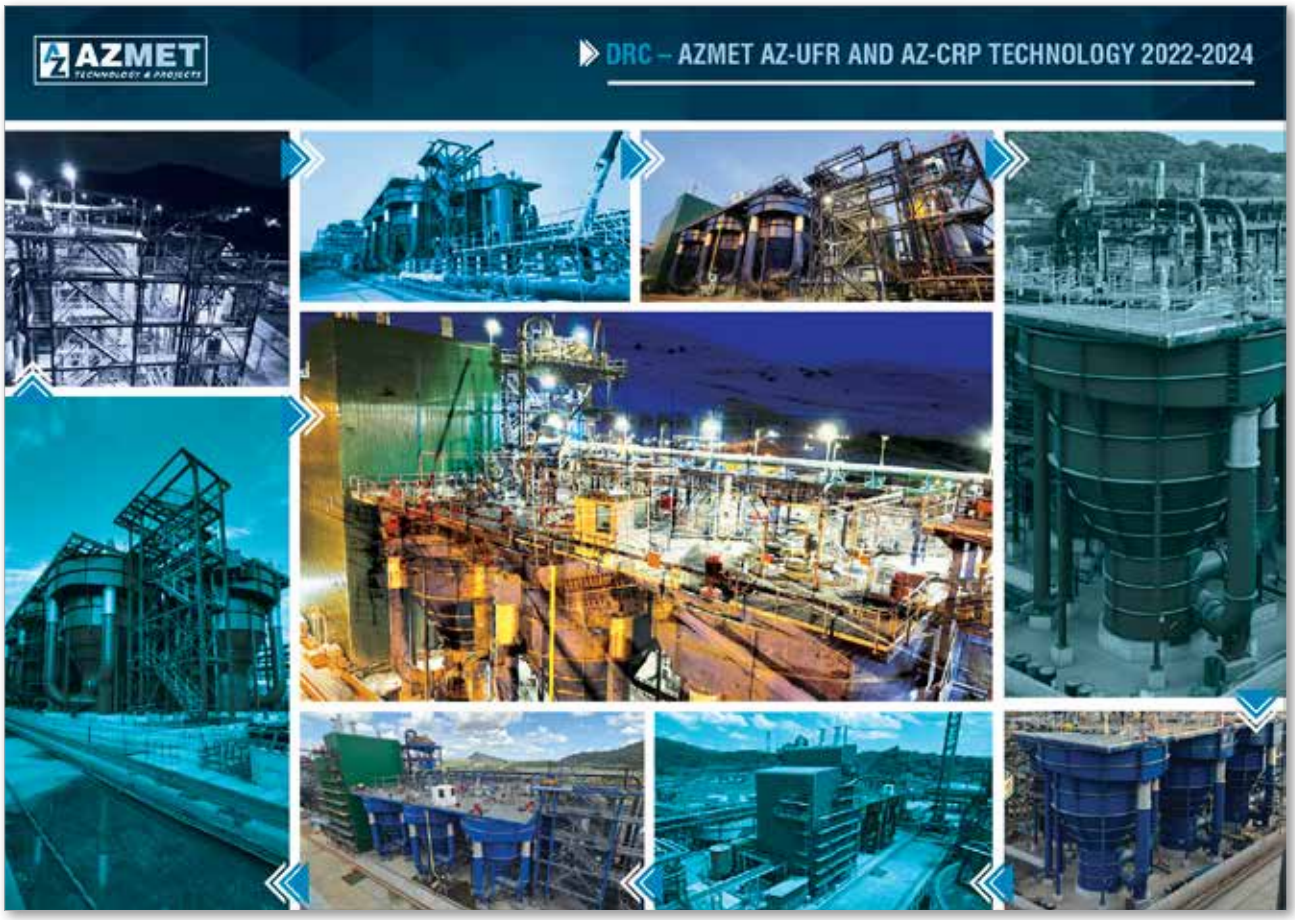
- Client with Non-Disclosure Agreement in place (Asia) - Gold 10 tpd Zadra Carbon Desorption and Recovery Plant



- J Resources, Doup Gold Project (Indonesia) - Gold 10 tpd Carbon Split AARL Desorption and Recovery Plant
- Adiprotec Envirodunia, Poboya Gold Project (Indonesia) - Gold 6 tpd Carbon Zadra Adsorption, Desorption & Recovery Plant
- Hassai, Gold and Silver Project (Sudan) – Gold 2tpd Carbon Split AARL Desorption and Recovery Plant (including Zinc Precipitation)
- Eti Bakir A.S, Gold and Silver Project (Turkey) - Gold 2 tpd Carbon Zadra Adsorption, Desorption and Recovery Plant
- CEMTEC, Meli Gold Project (Ethiopia) - Gold 2 tpd Carbon Zadra Desorption and Recovery Plant

» Other Design and Studies Completed

- Detail design and engineering for Gold and Silver 12 tpd Carbon Adsorption, Desorption & Recovery Plant, with Zinc precipitation and including Reagent Packages for a 10.5 Mtpa HL Project – Lydian, Armenia
- Komarovckoye gold plant detailed process design for execution (2.5MTPA, Kazakhstan)
- Asmara gold and copper bankable feasibility optimisation study, which focused on the trade-off between using Carbon in Leach (CIL) versus Heap Leach (HL) for the gold portion of the resource.
- VBKOM - Zandheuvel Phosphate Scoping Study
- Xtract Resources DFS for a 0.5MTPA gold production plant – Manica, Mozambique
- Copper, Silver & Gold study, including financial trade-off studies looking at Copper leach, SX-EW vs. precipitation, followed by Silver & Gold cyanide leaching and recovery - Morocco
- Luisha South Copper & Cobalt Optimisation study - DRC





AT **AZMET**, OUR STRONG ORGANIZATIONAL ETHOS ALIGNS WITH THE CORE VALUES OF OUR CLIENTS WHICH ARE BASED ON ACCOUNTABILITY, MUTUAL RESPECT, PROFESSIONALISM, AND EXPERTISE. WE ARE COMMITTED TO ETHICAL CONDUCT, INTEGRITY, DEDICATION, AND PASSION IN ALL WE DO.



5. EXCO MEMBERS' EXPERIENCE

Collectively the executive members of AZMET have been involved in:

- More than **36 execution projects** with project values ranging up to US$500M.
- More than **46 successfully completed project studies**
- The execution of projects in over **24 different countries.**

Studies and Projects - Applicable EXCO members Gold References

The EXCO Members of AZMET has been involved in the following referenced projects:

»» 2013 to 2014: True Gold, Burkina Faso

Project Execution, Karma Heap Leach
(4 Mtpa, ±$170 million CAPEX)

Crushing, Agglomeration, Stacking, Recovery Circuit, Plant Services, Reagents

»» 2013 to 2014: True Gold, Burkina Faso

Feasibility Study, Karma Heap Leach
(4 Mtpa, ±$170 million CAPEX estimate)

Crushing, Agglomeration, Stacking, Recovery Circuit, Plant Services, Reagents

»» 2013: Goldfields, Mali

De-risking Scoping Study, Yanfolila Gold Plant
(2 Mtpa, ±$105 million CAPEX estimate)

Crushing, Milling, CIL, Recovery Circuit, Plant Services, Reagents

»» 2013: Altyn Almas, Kazakhstan

Prefeasibility Study, Akbakai Gold Plant
(1.0 Mtpa, ±$300 million CAPEX estimate)

Crushing, Milling, Flotation, BIOX, CIL, Recovery Circuit, Plant Services, Reagents

»» 2012 to 2013: Sunridge, Eritrea

Feasibility Study, Asmara Project
(4 Mtpa, ±$665 million CAPEX estimate)

Crushing, SAG & Ball milling, Gold plant and Copper & Zinc Flotation with Fine Grind, Pressure Filtration

»» 2011 to 2013: Nyota, Ethiopia

Feasibility Study, Tulu Kapi Gold Plant
(2 Mtpa, ±$288 million CAPEX estimate)

Crushing, SAG & Ball milling, CIL, Gold Recovery Circuit

»» 2012: Gold Fields, Ghana

Prefeasibility Study, Greater Damang Gold Plant
(10 Mtpa, ±$489 million CAPEX estimate)

Two Stage Crushing, HPGR & Ball milling, CIL, Gold Recovery Circuit

»» 2012: Randgold, Mali

Project Execution, Upgrade Loulo Gold Project
(4.2 Mtpa, ±$32 million CAPEX)

Addition of Stockpile and 3rd Mill into existing CIL plant, new Gravity Screens, new Linear Screens and changing Tailings Thickener to Preleach Thickener duty

»» 2012 to 2013: Altyn Almas, Kazakhstan

Feasibility Study, Bakyrchik Gold Plant
(1.5 Mtpa, ±$450 million CAPEX estimate)

Crushing, Milling, Flotation, BIOX, CIL, HiTeCC, Aster, Recovery Circuit, Plant Services, Reagents

»» 2012: Endeavour Mining, Cote D'Ivoire (Ivory Coast)

Feasibility Study, Agbaou Gold Plant (1.6 Mtpa, ±$160 million CAPEX estimate)

Crushing, Milling, CIL, Recovery Circuit, Plant Services, Reagents

»» 2012: AXMIN, Central African Republic

Detailed Design, Passendro Gold Plant
(2 Mtpa, ±$315 million CAPEX estimate)

Crushing, Milling, CIL, Recovery Circuit, Plant Services, Reagentsoje86 11AZMET (29638) fax +27 86 628 azmet.co.za

»» 2012: Anglogold Ashanti, Guinea

Pre-Feasibility Study, Siguiri Gold Plant
(±$45 million CAPEX estimate)

Increasing plant capacity from 12 Mtpa to 14 Mtpa by debottlenecking the process plant and reviewing conveyor designs

»» 2012: Gold Fields, South Africa

Prefeasibility Study, KDC Tailings Re-treatment
(28 Mtpa, $200 million CAPEX estimate)

Hydraulic Reclamation, Gold Flotation with Fine Grind, CIL, Recovery Circuit

»» 2011 to 2012: Cluff Mining, Sierra Leone

Feasibility Study, Baomahun Gold Plant
(2 & 4 Mtpa, ±$315 million CAPEX estimate)

Crushing, Milling, Oxidation via High Shear Reactors, CIL, Recovery Circuit, Plant Services, Reagents

»» 2008 to 2011: Randgold, Ivory Coast

Project Execution, Tongon Gold Plant (3.6 Mtpa, $160 million CAPEX)

Three Stage Crushing, Ball milling, Flash Flotation with Fine Grind, Oxidation via High Shear Reactors, CIL, Recovery Circuit

»» 2010 to 2012: Sunridge, Eritrea

Feasibility Study, Debarwa Copper & Gold Plant
(270 ktpa, ±$159 million CAPEX estimate)

Three Stage Crushing, Ball milling, Direct Shipping Ore, Copper Flotation with Fine Grind, Pressure Filtration

Three Stage Crushing, Ball milling, CIL, Gold Recovery Circuit

»» 2010 to 2011: Randgold, Senegal

Feasibility Study, Massawa Gold Plant
(3.6 Mtpa, ±$484 million CAPEX estimate)

Three Stage Crushing, Ball milling, Gold Flotation with Fine Grind, Pressure Oxidation, CIL, Recovery Circuit

»» 2010 to 2011: Randgold, Democratic Republic of the Congo

Feasibility Study, Kibali Gold Plant
(4 Mtpa, ±$508 million CAPEX estimate)

Three Stage Crushing, Ball milling, Gold Flotation with Fine Grind, Oxidation via High Shear Reactors, CIL, Recovery Circuit

»» 2009 to 2011 Banro, Democratic Republic of the Congo

Project Execution, Twangiza Gold Plant
(1.3 Mtpa, ±$86 million CAPEX)

Crushing, Scrubbing, Milling, CIL, Recovery Circuit, Plant Services, Reagents

»» 2007 to 2011: Nevsun - Bisha Mining Share Company, Eritrea

Project Execution & Commissioning – Bisha Gold - Phase 1 (2 Mtpa, ±$252 million CAPEX)

Crushing, SAG & Ball milling, CIL, Gold Recovery Circuit

»» 2011: Anglogold Ashanti, Guinea

Scoping Study, Siguiri Gold Plant
(±$30 million CAPEX estimate)

Determining of the optimal processing route for gold recovery from transition ore body through the current CIP circuit.

»» 2010 to 2011 Banro, Democratic Republic of the Congo

Scoping Study, Twangiza Gold Plant
(±$20 million CAPEX estimate)

Upgrading of the 1.3 Mtpa plant to 1.7 Mtpa

»» 2010: Centamin PGM, Egypt

Feasibility Study, Sukari Gold Plant Expansion
(10 Mtpa, ±$130 million CAPEX estimate)

Three Stage Crushing, Ball milling, Gold Flotation with Fine Grind, CIL, Recovery Circuit

»» 2010: Centamin PGM, Egypt

Feasibility Study, Sukari Crushing & Screening Upgrade (5 Mtpa)

Three Stage Crushing

»» 2008 to 2009 Anglogold Ashanti, Guinea

Pre-Feasibility Study, Siguiri Gold Plant
(±$40 million CAPEX estimate)

Increasing plant capacity from 10 Mtpa to 11.5 Mtpa by debottlenecking the process plant

»» 2009: Banro, Democratic Republic of the Congo

Feasibility Study, Twangiza Gold Plant (5 Mtpa, ±$380 million CAPEX estimate)

Crushing, Sag & Ball Milling, CIL, Recovery Circuit, Plant Services, Reagents

»» 2007 to 2009 Redback Mining, Mauritania

Plant Expansion, Tasiast Gold Plant
(2.5 Mtpa, ±$26 million CAPEX)

Increasing plant throughput from 1.25 Mtpa to 2.5 Mtpa

»» 2006 to 2007: Somita SA, Burkina Faso

Project Execution & Commissioning – Taparko Gold Project (1 Mtpa, ±$28 million CAPEX)

Oxide ore - Rolls Crusher, Ball milling, Gravity, CIL, Gold Recovery Circuit

Sulphide ore - Three Stage Crushing, Ball milling, Gravity, CIL, Recovery Circuit

»» 2005 to 2006: Guinor Gold Corporation Ltd, Guinea

Project Execution & Commissioning – LEFA Corridor Gold Project (8 Mtpa, ±$80 million CAPEX)

Second Hand Plant used - Crushing, SAG & Ball milling, Gravity, CIL, Recovery Circuit

»» 2004 to 2005: Randgold, Mali

Project Execution – Loulo Gold Plant

Soft rock - Rolls Crusher, Ball milling, Gravity, CIL, Gold Recovery Circuit

Hard rock - Three Stage Crushing, Ball milling, Gravity, CIL, Recovery Circuit

Exco Members' CV's

The EXCO members of AZMET are:

Braam Smit

CEO

- B.Eng (Metallurgical)
- Over 25 years Post Graduate Experience

Ruan Kukard

COO / CMO

- B.Eng (Chemical with Specialization in Mineral Extraction)
- Over 25 years Post Graduate Experience

Note: **Comprehensive CV's can be supplied on request**

6. AZMET QUALITY POLICY STATEMENT

AZMET QUALITY POLICY

Commitment
The executive management team of AZMET Technology & Projects is committed to identifying and fulfilling its clients' requirements to ensure their complete satisfaction with the service it provides.

Take Care
AZMET will take care in its work to ensure that the finished product meets or exceeds client, legal and regulatory requirements.

Be Proactive
AZMET will train staff and ensure that people have the right competency to do their work to the required standard.

Internal Standards
AZMET will implement internal standards to streamline the customer experience and increase efficiency.

Be Aware
AZMET will be aware of best practice methodologies, exceptional products and the latest innovations to provide a quality finished product.

Transparency
AZMET will be transparent with its clients to ensure that issues are communicated and resolved as quickly as possible.

Learn & Improve
AZMET will learn from the lessons and experiences gained internally and by others and set targets to keep improving its overall performance.

Lead from the Top
People with responsibility will lead by example to ensure that the customer requirements are always delivered on its projects.

Reward Success
AZMET will identify and reward innovation and extraordinary performance to maintain a positive quality culture.

Braam Smit
Director

Ruan Kukard
Director

VAT REG NO: 4450265527 / COMPANY REG NO: 2013/235088/07

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7. AZMET AWARDS & ACCOLADES

AZMET has received the following Awards and Accolades:

2016:

- Business of the year – Gold Winner – Engineering Category

2017:

- Business of the year – Gold Winner – Engineering Category
- Business of the Year – Silver Winner – Innovation

2018:

- Business of the year – Gold Winner – Engineering Category
- Exporter of the Year – Services Business
- Exporter of the year – African Exports

2019:

- Business of the year – Diamond Winner – Engineering Category
- Diamond Award is given for winning a category three (3) consecutive years.

2023:

- Steel Awards – Winner – Mining & Industrial Category
- Steel Awards – Winner – Best Export Project Category
- SACEEC Exporter of the Year Awards – Winner – Allied service exporter of the year Category
- SACEEC Exporter of the Year Awards – Runner-up – Exporter of the Year (R150 - R200 Million per Annum) Category

2025:

- SACEEC Exporter of the Year – Awards Winner



AZMET extends its sincere gratitude to the Reader for granting us the opportunity to present our company structure, services, capacity, and experience. It has been our privilege to share insights into how AZMET can serve your needs and contribute to the success of your endeavors. Should you require any further information or assistance, please do not hesitate to reach out to us. We look forward to the possibility of collaborating with you in the future.

CONTACT DETAILS

tel +27 86 11AZMET (29638) **fax** +27 86 628 5610 **email** sales@azmet.co.za | ruan@azmet.co.za **web** www.azmet.co.za