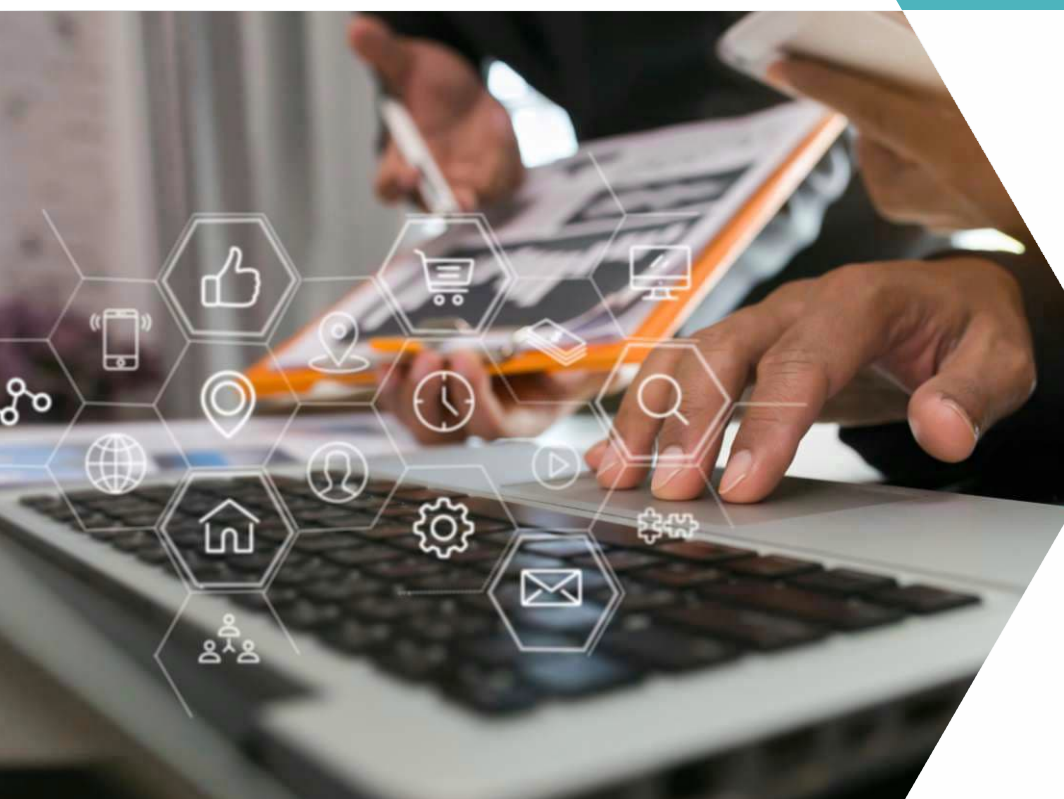


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IMPROVING RESULTS



LIMPOPO | GAUTENG | WESTERN CAPE

**Your one-stop
solution for
seamless project
delivery and
cost-effective
management.**

TETRA PROJECT CONSULTANTS (PTY) LTD

- » Commercial Management
- » Claims Management
- » Quantity Surveying
- » Mechanical, Civil & Structural Engineering Services
- » Contract Management
- » Project Management
- » Planning and Scheduling
- » Procurement and Procurement Strategies



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Project Services



The project services team, together with our alliance partners have delivered a wide range of commercial, contract and project management services to clients across multiple industries and sectors ranging from Power (thermal and nuclear), Mining and Infrastructure to Property. Our experience, both local and international, and expertise enable us to provide guidance, advice and practical solutions by means of seasoned professionals.

Our services include:

- » Commercial Management
- » Claims Management
- » Quantity Surveying
- » Mechanical, Civil & Structural Engineering
- » Contract Management
- » Project Management
- » Planning and Scheduling
- » Procurement and Procurement Strategies

These services have been managed, delivered and administered with FIDIC, NEC, JBCC and bespoke conditions of contract.

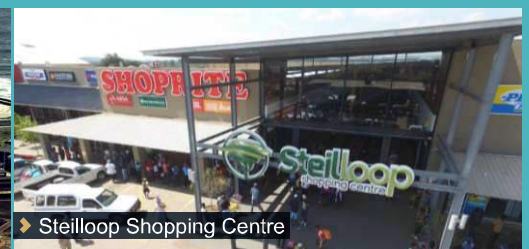
Project Services



» Medupi



» Koeberg



» Steilloop Shopping Centre



» Mahwelereng Shopping Centre



» Tibani Shopping Centre

Tetra Engineering

Our Engineering services include Bulk Material Handling Systems (including but not limited to conveyor and conveyor system design (incl audits and inspections), bins and hopper design, piping design, design verifications, structural and mechanical inspections and audits including stackers and reclaimers, chute liner layouts), 3D Scanning and Modelling and Finite Element Analysis.

Our engineering partner has a broad and extensive range of experience in the development of civil and structural designs for commercial buildings, hotels, lodges, shopping centres, large industrial warehousing, deep parking basements, government and privately funded commercial mega-projects, BRT projects, high-rise offices and retail centres across international destinations. Our Africa experience include Botswana (Debswana), Cameroon, Ghana, Mozambique, Nigeria, Uganda and Zimbabwe.

Drone inspections (condition monitoring).

Engineering Services



Exxaro – Grootegeluk



Anglo – Mogalakwena



Vergenoeg Mine



Karo Minerals (Zimbabwe Platinum)

APPENDIX A						
Design Information	Chute 1	Chute 2	Chute 3	Chute 4	Chute 5	Chute 6
Chute number	3110-CVR-001-01	3121-CVR-001-01	3122-CVR-001-01	3123-CVR-001-01	3123-CVR-003-01	3123-CVR-002-01
Chute Designation	ROM Ore Conveyor Head Chute	Primary Screen and Crushing	Tertiary Screening & Crushing	Tertiary Screening & Crushing	Tertiary Screening & Crushing	Tertiary Crusher Feed Conveyor
Feed Conveyor Information	Feed Conveyor Information	Feed Conveyor Information	Feed Conveyor Information	Feed Conveyor Information	Feed Conveyor Information	Feed Conveyor Information
Conveyor number	3110-CVR-001	3121-CVR-001	3122-CVR-001	3123-CVR-001	3123-CVR-003	3123-CVR-002
Conveyor name	ROM Conveyor	Primary crushed ore conveyor	Crusher Ore Feed Conveyor	Silo Feed Conveyor	Head chute	Tertiary Crusher Feed Conveyor 3
Belt width (mm)	1500	1200	1200	1200	1200	1200
Belt speed (m/s)	1.3	700	1250	700	1250	1250
Belt Capacity (tph)	700	1.6	1.6	1.6	1.6	1.6
Material size (mm)	500	120	50	15	30	30
Discharge	Discharge : Feeder	Discharge : Bin	Discharge : Conveyor Information	Discharge : Silo	Discharge : Bin	Discharge : Conveyor Information
Conveyor number			3123-CVR-001			3123-CVR-003
Conveyor name			Tertiary Crusher Feed Conveyor 2			Tertiary Crusher Feed Conveyor 3
Belt width (mm)			1200			1200
Belt capacity (tph)			1250			1250
Belt speed (m/s)			1.6			1.6
Material size (mm)			30			30
RECOMMENDED IMPROVEMENTS						
	Chute 1	Chute 2	Chute 3	Chute 4	Chute 5	Chute 6
Recommendation 1	Pulley moved forward by 315mm—this creates better flow on to the top dead box and not onto the feeder directly.	No changes are required for this chute.	Chute throat area to be enlarged to allow better flow through the throat of the chute.	No changes are required for this chute.	No changes are required for this chute	Chute throat area to be enlarged to allow better flow through the throat of the chute.
Recommendation 2	Top Dead Box extended to enlarge dead.	None Required	Langleague opening to be moved backwards and the opening enlarged to allow better flow on to the conveyor belt.	None Required	None Required	Langleague opening to be moved backwards and the opening enlarged to allow better flow on to the conveyor belt.
Recommendation 3	Bottom Dead Box : controls feed of material onto the feeder breaking direct impact from the top dead box onto the feeder. The bottom dead box design should allow for an extension plate with slotted holes to allow adjustment during commissioning of the plant.	None Required	None Required	None Required	None Required	None Required
Initial Analysis (before recommended improvements).						
Final Analysis (after implementation of improvements).						

*Please note that the following example is purely for illustrative purposes

We specialise in project management services, engineering, design, construction and co-ordination for minerals processing, material handling and infrastructure projects.



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We source and supply a wide range of products

We are dedicated to delivering reliable, efficient, and high-quality mining and industrial supplies to support your demanding operations and keep them running smoothly.

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- Machinery, tools, accessories, and components
- Consumables
- Industrial lubricants and equipment
- Safety and personal protective equipment (PPE)
- Critical components to mobile mining plant and equipment
- Strategic maintenance and solutions
- Radiator services
- OEM and after market spares and parts
- Service exchange option available for equipment
- Fluid control valves and pumps

We are proud to be associated with renowned industry bodies, manufacturers, and experts. These collaborations keep us at the forefront of industry trends and technological advancements.

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Tetra Supplies



Registered as Vendor with:

- Anglo American
- Glencore
- Exxaro
- ESKOM
- Karo Mining
- Tharisa
- Worley
- Bushveld Minerals
- Ivanhoe Mines



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WHERE WE OPERATE

- Limpopo
 - Gauteng
 - Mpumalanga
 - Western Cape
- but not limited to



LIMPOPO

Office # 13

01 Jan Lee Street
Onverwacht,
Lephalale



www.tetraprojects.co.za

Specialised Commercial Services

We pride ourselves to be solution-driven by creating bespoke systems and models to optimise time-consuming tasks. One of our specialties is the calculation of Contract Price Adjustment (CPA) on large scale projects with multiple activities. Our custom-built model can reconcile CPA calculations on multiple activities over long durations whether it be for interim verification or final account purposes.

CPA = BV x

[Ci - Bi]

Bi

x

0.16

[Ci - Bi]

Bi

x

0.78

[Ci - Bi]

Bi

x

0.03

[Ci - Bi]

Bi

x

0.03

x

90%

Current Value =

CPA + Base Value (BV)

Code	Select Table									
S2	Table D-3: Statistics SA - Consumer Price Index (CPI): Statistics SA CPI									
S3	INSEE - 010534663Producer price index in industrial production sold in France – CPF 24.52									
S4	INSEE - 001565183Monthly index of revised hourly labour cost - Total labour costs - All em									
S1	Table C-3: SEIFSA Index - Actual Labour Cost: Journeymen Employees									
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	Index 1	Index 2	Index 3	Index 4	Index 5	Index 6	Index 7	Index 8	Index 9	Index 10
Formula 1	S2	S3								
Formula 2			S4	S1						
Formula 3										
Formula 4										
Formula 5										
Formula 6										



Our Team's Experience



Power Generation

- » 6 X 800MW Super Critical Coal Fired Power Plant (RSA).
New Build.
 - » Value: ZAR145Bn
 - » Involvement: Project Management / Commercial Management / Quantity Surveying
- » 4 x 1,400MW Nuclear Power Station (UAE).
New Build.
 - » Value : \$20Bn
 - » Involvement: Commercial Management / Quantity Surveying
- » 2 x 970MW Nuclear Power Station (RSA).
Koeberg Steam Generator Replacement Project.
 - » Involvement: Commercial Management / Quantity Surveying

Mining Operations

- » De Beers (Debswana - Botswana)
– Quantity Surveying
- » Grootgeluk Mine (Exxaro) – Engineering Services
- » Mogalakwena (Anglo) – Quantity Surveying
- » Vergenoeg Mine – Engineering Services
- » SASOL – Green Field Mine Development
- » Tharisa Minerals – Engineering Services

Property (UAE, Africa)

- » Hospitality (UAE)
- » Retail (RSA)
- » Offices (Zambia, RSA, Tanzania)
- » Residential (Incl High rise)
- » Motor Showrooms (RSA)
- » Industrial (RSA)
- » Land Conversion (RSA)

Infrastructure

- » District Cooling (UAE)
- » Pipelines (RSA)
- » Roads (RSA)
- » Dams & Substations (RSA)
- » Our Africa experience include Botswana (Debswana), Cameroon, Ghana, Mozambique, Nigeria,

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IMPROVING RESULTS

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LIMPOPO

PSG Building
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