

**ENVIRONMENTAL IMPACT ASSESSMENT AND
MANAGEMENT PROGRAMME AND WATER USE
LICENSE APPLICATION PROCESS - THE
PROPOSED HEAT RECOVERY PLANT (110MW)
AND COKING COAL PLANT (3Mtpa) ON THE
F FARMS BOAS 642 MS AND MARTHA 185 MS
WITHIN THE MAKHADO LOCAL
MUNICIPALITY, VHEMBE DISTRICT LIMPOPO -
KINETIC MINING DEVELOPMENT SOUTH
AFRICA (PTY) LTD**

PUBLIC PARTICIPATION MEETING

27TH SEPTEMBER 2025

AGENDA

Meeting Agenda

- 1. Opening and Welcome**
- 2. Apologies and Introductions**
- 3. Purpose of Meeting -**
 - a. Introduction of Consultant - Gudani Consulting**
 - b. Applicants Details - Kinetic Development Group Limited**
T/A Kinetic Mining Development - South Africa (Pty) Ltd
 - c. Overview of the Proposed Projects**
 - 3 million tons/year coke plant;
 - Heat recovery electricity power plant - 110 MW;
 - Associated Infrastructure.
- 4. Description of EIA/EMP/AEL/IWULA Process**
 - a. Field Investigations for Environmental Specialists and EAP**
 - b. Public Participation Process and Meetings**
- 5. Questions and Answers**
- 6. Closure and Way Forward**

PROJECT DESCRIPTION

Kinetic mining Development - South Africa (Pty) Ltd proposes to develop and construct a new coke plant (3 million tons/year) and heat recovery plant (110 MW), offices and living facilities and associated infrastructure.

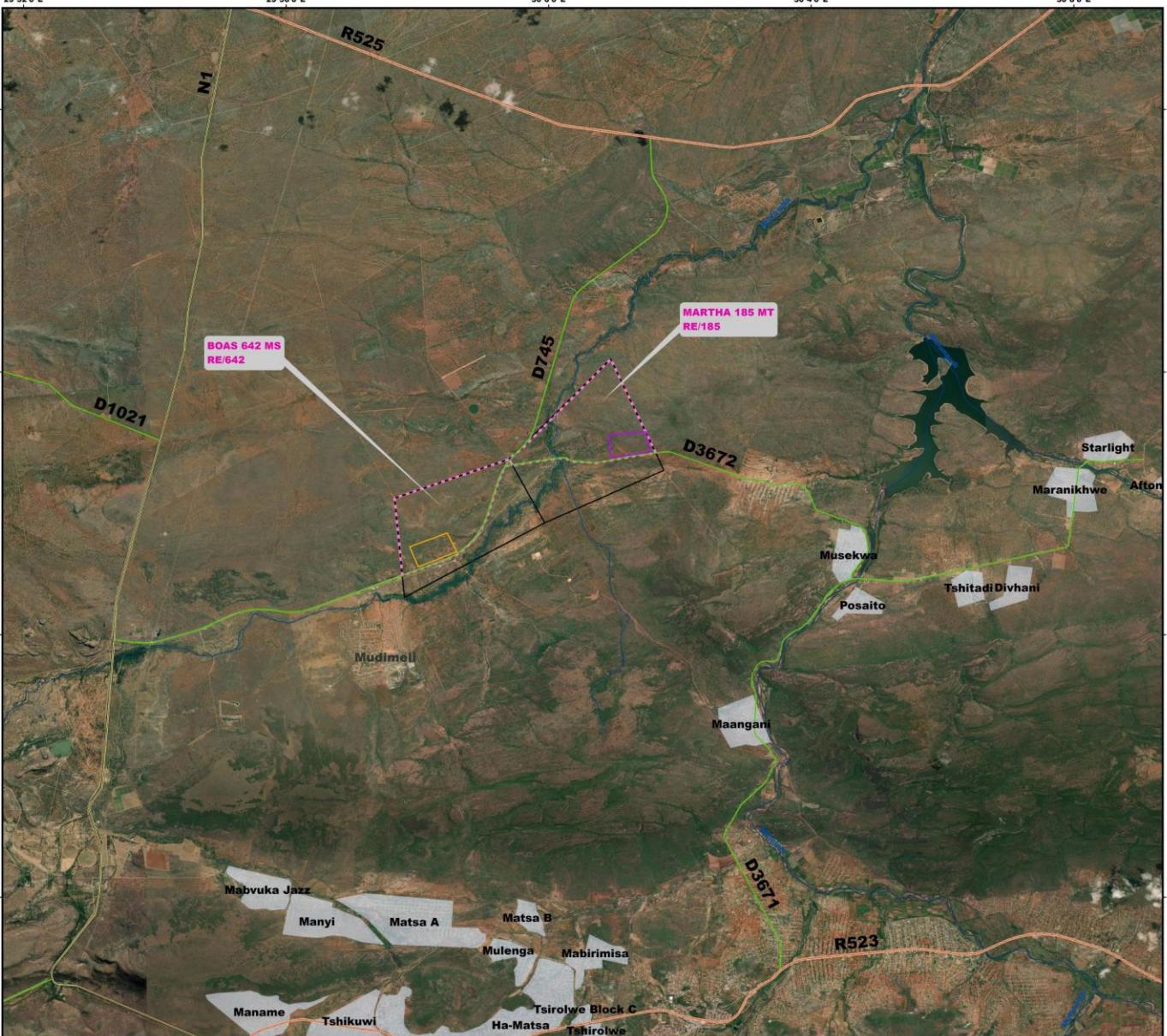
The proposed industrial and metallurgical activities will be on the farms: Remaining Extent of Boas 642 MS - (Option 1) and Remaining Extent of Martha 185 MT - (Option 2) situated within Makhado Local Municipality, Vhembe District Municipality, in Limpopo Province.

PROJECT DESCRIPTION

| Applicant Name: | Proposed Activity Description: | Farms: | |
|--|---|--|--|
| Kinetic Mining Development South Africa (Pty) Ltd | 3 million <u>tons</u> /year coke plant; Heat recovery electricity power plant - 110 MW; | Remaining Extent of Boas 642 MS - Option 1 | Remaining Extent of Martha 185 MT - Option 2 |
| Applicable Listed Activities in terms of NEMA EIA Regulations 2014 | GNR.983 9, 10, 28, 56 | GNR.984 4, 6, 15, 21 | GNR.985 12 |
| Applicable Water Uses in terms of Section 21 of the National Water, 1998 | Section 21(a); 21(b); 21(e); 21(g); and 21(h). | | |
| Applicable Activities in terms of NEMA Waste Act, 2008 | GNR. 921 - Category B - Activity 7 and 9 | | |
| Applicable Activities in terms of NEMA Air Quality Act, 2004 | Listed Activity Category 2 - Sub-Category 2.2 Listed Activity Category 3 - Sub-Category 3.2 Listed Activity Category 5 - Sub-Category 5.1 | | |



PROJECT LOCALITY

| | |
|--|--|
|  <p>Client : Kinetic Mining Development - South Africa</p> <p>Title : Locality Map</p> | |
| <p>Legend</p> <ul style="list-style-type: none"> Regional Roads National Roads District Roads Major Rivers Vhembe District Municipality Makhado Local Municipality Proposed Kinetic HRCP - Site 1 Proposed Kinetic HRCP - Site 2 Farm Portions Parent Farms Village/Township | |
| <p>Kilometers</p>  | <p>Kilometers</p>  |
|  <p>Vhembe District Municipality</p> <p>Limpopo</p> <p>Makhado Local Municipality</p> |  <p>BOAS 642 MS RE/642</p> <p>MARTHA 185 MT RE/185</p> <p>Starlight</p> <p>Maranikhwe</p> <p>Afton</p> <p>Musekwa</p> <p>Posaito</p> <p>Tshitadi Divhani</p> <p>Maangani</p> <p>Mabvuka Jazz</p> <p>Manyi</p> <p>Matsa A</p> <p>Matsa B</p> <p>Mulenga</p> <p>Mabirimisa</p> <p>Maname</p> <p>Tshikwi</p> <p>Tsirolwe Block C</p> <p>Ha-Matsa</p> <p>Tsirolwe</p> |
| <p>Date: August 2025</p> | <p>1:50 000</p> |
| <p>37A Voortrekker Street, Polokwane, 0699 P.O. Box 714, Faunapark, Polokwane, 0787 Tel: +2715 - 291 3620/291 5669 Fax: +2715 - 291 4932 / 086-235 9820 Cell: +2782 - 828 3412 setenane@gudaniconsulting.co.za</p> | |
| <p>WGS84 Datum</p> | |



PROJECT LOCALITY



Client : Kinetic Mining Development - South Africa

Title : Locality Map

Legend

- Regional Roads
- National Roads
- District Roads
- Major Rivers
- Vhembe District Municipality
- Makhado Local Municipality
- Proposed Kinetic HRCP - Site 1
- Proposed Kinetic HRCP - Site 2
- Farm Portions
- Parent Farms
- Village/Township

Kilometers
0 1 2 4 6 8



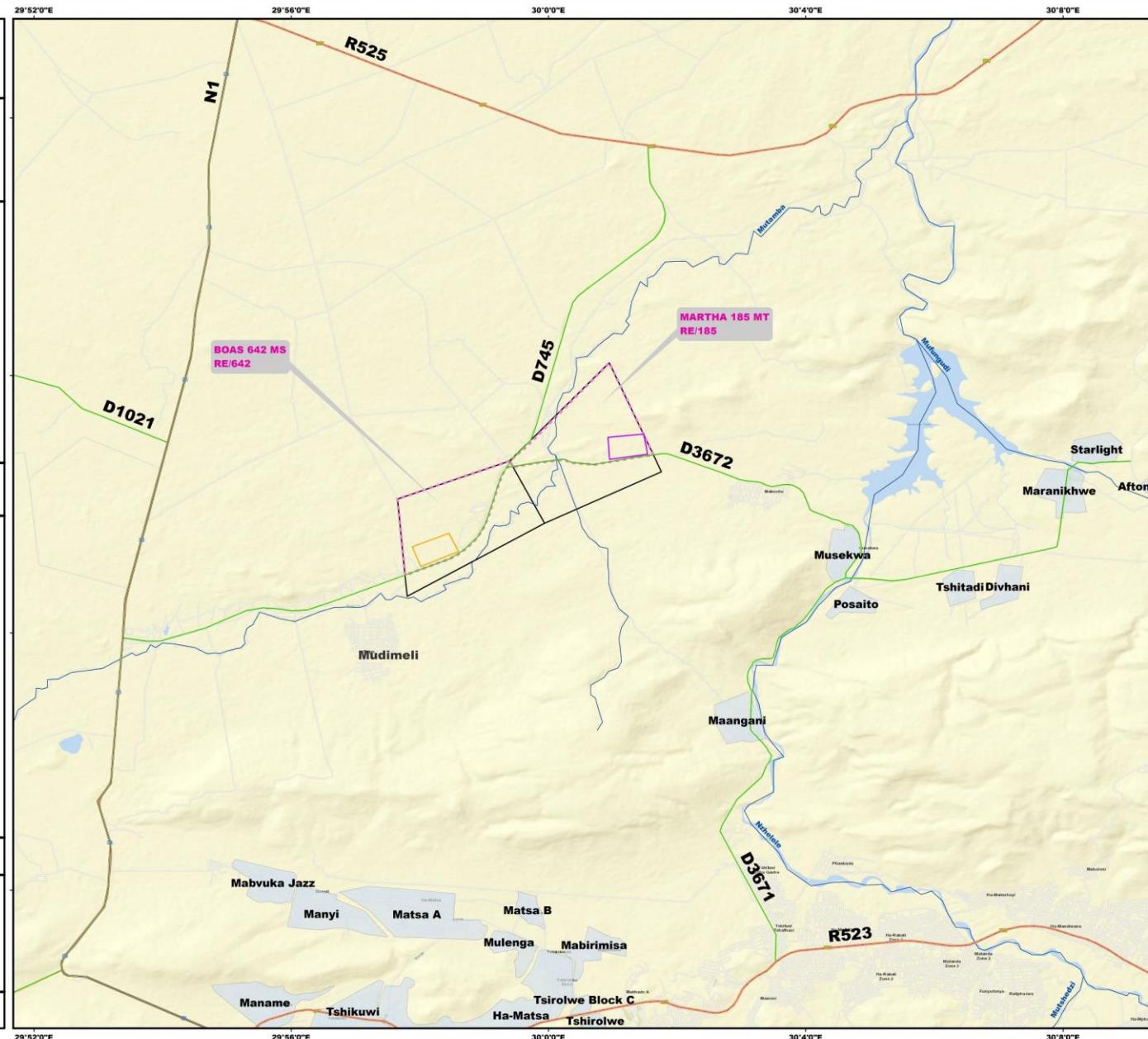
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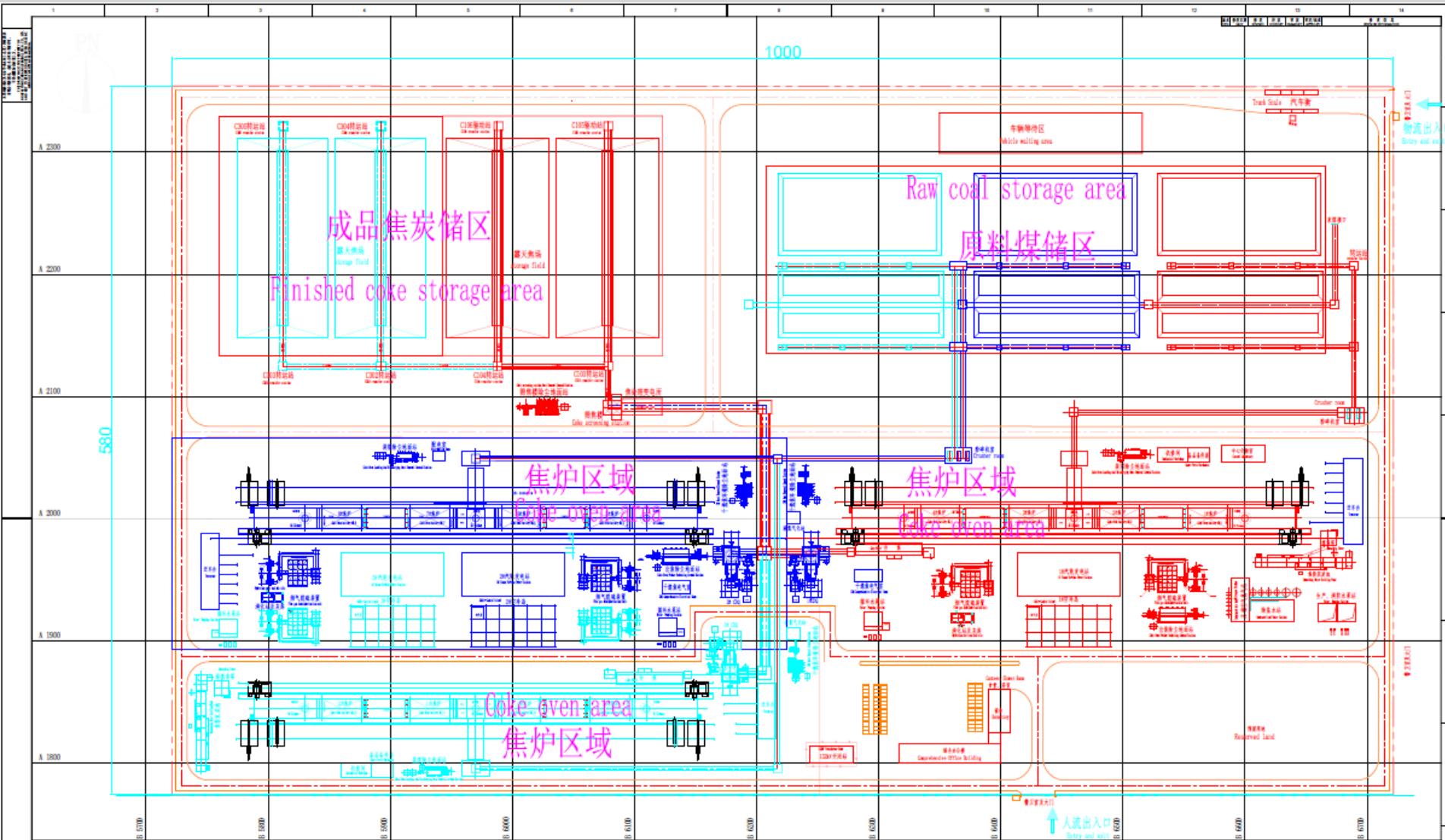
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WGS84 Datum





• 通过输出增加经济指标

| 序号 | 项目名称 | 单位 | 数量 | 备注 |
|----|----------|----------------|--------|---|
| 1 | 工程用地面积 | 亩 ² | 580000 | |
| 2 | 道路及厂区道路板 | 亩 ² | 66300 | |
| 3 | 绿化用地面积 | % | 15 | |
| 4 | 绿化用地面积 | 亩 ² | 73525 | |
| | | | | 一期用地面积: 435700亩 二期用地面积: 87480亩 三期用地面积: 63825亩 |

General map transport main technical and economic indicators table

| Seq number | Project | Unit | Number | Remark |
|---------------|--------------------------|-------|--------|---|
| 1 | Project land area | sq ft | 580000 | Phase 1 Project land area: 428700 sq ft |
| 2 | Build & Return yard area | sq ft | 60350 | Phase 1 Project land area: 67480 sq ft |
| 3 | Green land rate | % | 15 | Phase 1 Project land area: 63820 sq ft |
| 4 | Green land area | sq ft | 73550 | |

圖例 Legend

| | | |
|---|----------------|--------------------------------------|
|  | 一期设计建筑 (例) 建筑物 | Phase I designed building(example) |
|  | 二期设计建筑 (例) 建筑物 | Phase II designed building(example) |
|  | 三期设计建筑 (例) 建筑物 | Phase III designed building(example) |
|  | 新设计道路 | Newly designed road |
|  | 工程用地界限 | Project Land limit |

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图中坐标系统为惯性坐标系。

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Design according to the electronic topographic map provided by Party A and the designated location. The numerical units of measurement in the figure are measured in a unless indicated.

| | | | | |
|--|--|--|------|---|
| | | | HT | 华宇恒创(北京)科技股份有限公司 HUAYU HENGCHUANG (BEIJING) TECH CO., LTD. |
| | | | 华宇恒创 | |

Labour Requirements

- Labour - 150 - 200 - During Construction
- Labour - 358 - Phase 1 Operations
- Labour - 256 - Phase 2 Operations
- Labour - 260 - Phase 3 Operations
- **TOTAL 874**

The scope of staffing includes production personnel, management and service personnel in coal preparation unit, coking unit, Screening and coke transportation system, Coke Dry Quenching (CDQ) system (heat recovery), auxiliary production facilities

PROPOSED INFRASTRUCTURE

- Coke Plant - 3 000 000 tons/annum
- Heat Recovery Plant (110 MW))
- Access roads and Haul roads;
- Diesel storage tanks;
- Sewerage Treatment Facility
- Pollution Control Dams (PCDs);
- Berms to separate dirty/clean water;
- Ore Stockpiles - Coal, Coke;
- Topsoil storage dumps;
- 132 KV Sub-Station
- Offices and Living Area

Coke Plant

- Coal preparation plant - conveyor belts, vibrating screens and transfer stations
- 4 × 25-hole 5.5-meter vertical heat recovery coke ovens with an annual production capacity of 1 million tons of coke, along with supporting waste heat power generation facilities - pure carbon product/Coke
- Coke screening plant - conveyor belts, vibrating screens and transfer stations 0-6mm, 6-13mm and >13mm
- Gas cleaning plant - air cooling tower for gas, electric coal tar catcher, gas blower, air blower, gas holder,
- Auxiliary production facilities - power supply, distribution system, pipelines, lab, plant offices, Water pump house

Capital Investment

- Coke Plant – Approximately UDS800 Million – R13.6 Billion
- Heat Recovery Plant – Approximately USD400 Million – R6.8 Billion

Heat Recovery Plant

- Waste heat recovery methods include capturing and transferring the waste heat from a process with a gas or liquid back to the system as an extra energy source. The energy source can be used to create additional heat or to generate electrical(110MW) and mechanical power.

Illustration of Coke Plant



Illustration - Heat Recovery Plant



EIA/EMP/IWULA/ PROCESS

- **Gudani Scope of Work:**

- Conduct environmental baseline surveys;
- Identification of impact and assessments thereof;
- Formulation of impact management measures;
- Consultation with authorities and stakeholders;
- Conduct public participation process as part of the EIA/EMP/IWULA/Waste/AEL Processes;
- Compile the EIA/EMP/IWULA/Waste/AEL Reports and any supporting documentation which includes related engineering aspects.
- Apply for the Required Authorizations and Approvals



AUTHORIZATIONS REQUIRED

- NEMA - DFFE/LDEDET;
- WATER USE LICENSE & IWWMP - DWS;
- AIR EMISSIONS LICENSE - LDEDET;
- WASTE MANAGEMENT LICENSE - LDEDET;
- SAHRA PERMITS - SAHRA;

ENVIRONMENTAL ASSESSMENT

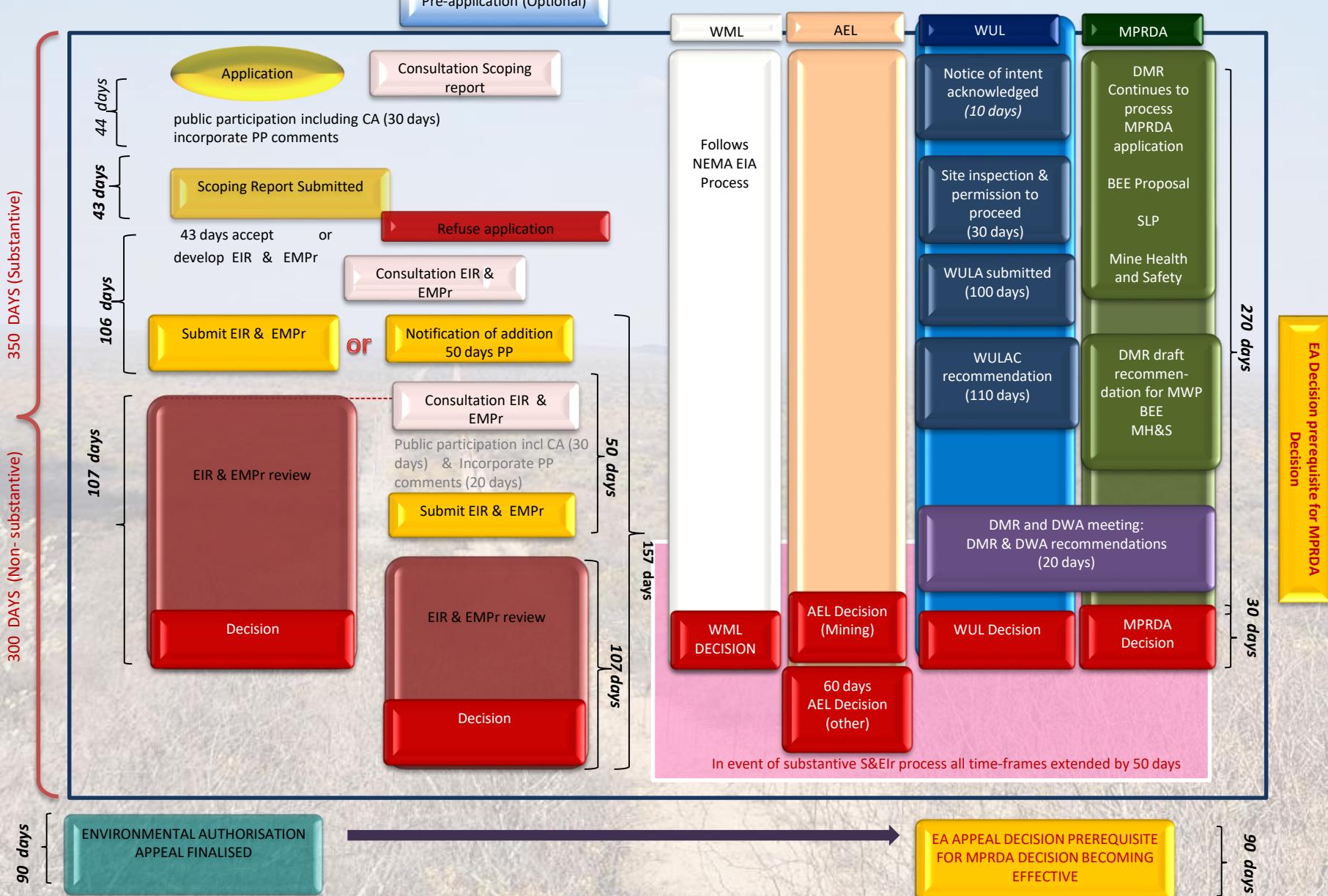
- TOPOGRAPHY
- SOILS AND LANDUSE
- BIO-DIVERSITY AND ECOLOGY
- FAUNA
- SURFACE WATER/WETLANDS/CATCHMENT
- GROUND WATER
- NOISE
- AIR QUALITY
- VISUAL IMPACTS
- HERITAGE IMPACTS
- SOCIO-ECONOMIC ISSUES
- WASTE MANAGEMENT



PUBLIC PARTICIPATION PROCESS

- NEWS PAPER ADVERTS - 12 September 2025
- SITE NOTICES - 21 September 2025
- PUBLIC PARTICIPATION MEETINGS: -
 - 09 July 2025 - MTC
 - 06 and 22 August 2025 - MTC / Local Chiefs
 - 27 September 2025 - Various Communities
- PUBLIC PARTICIPATION REPORT.

S&EIR Process



KEY TASKS AND TIMELINES

| KINETIC GROUP | SAEMB | TIMELINE |
|--|---|------------------|
| PROJECT KICK-OFF AND SITE VISIT | | June 2025 |
| REVIEW AVAILABLE DATA AND INFORMATION | | June - July 2025 |
| IDENTIFY LISTED ACTIVITIES | IDENTIFY LISTED ACTIVITIES | August 2025 |
| IDENTIFY REQUIRED ENVIRONMENTAL APPROVALS | IDENTIFY REQUIRED ENVIRONMENTAL APPROVALS | August 2025 |
| SITE VISITS TO PROJECT SITE | | June - Aug 2025 |
| CONSULT WITH RELEVANT AUTHORITIES | | June - Aug 2025 |
| INITIAL AND SCOPING PUBLIC PARTICIPATION - (KINETIC) | | Aug/Sept 2025 |
| IDENTIFY & CONDUCT SCOPING SPECIALIST STUDIES | IDENTIFY CONDUCT SCOPING SPECIALIST STUDIES | Jul/Aug 2025 |
| SUBMIT EIA APPLICATION | SUBMIT EIA APPLICATION | End Sept 2025 |
| SUBMIT WML APPLICATION | SUBMIT WML APPLICATION | End Sept 2025 |



KEY TASKS AND TIMELINES

| KINETIC GROUP | SAEMB | TIMELINE |
|--|--|-------------------|
| SUBMIT AEL APPLICATION | SUBMIT AEL APPLICATION | Dec 2025 |
| SUBMIT WUL APPLICATION | SUBMIT WUL APPLICATION | Oct 2025 |
| COMPILE SCOPING REPORT | COMPILE SCOPING REPORTS | Aug/Sept 2025 |
| SUBMIT SCOPING REPORT & PUBLIC REVIEW (30 Day) | SUBMIT SCOPING REPORT & PUBLIC REVIEW (30 Day) | Sept/Oct 2025 |
| CONDUCT EIA/IWULA/AEL/WML SPECIALIST STUDIES AND REPORTS - | | Aug - Nov 2025 |
| COMPILE EIA/IWULA/WML REPORTS | COMPILE EIA/IWULA/ AEL/WML REPORTS | Aug - Nov 2025 |
| PUBLIC PARTICIPATION - (KINETIC) | | Nov 2025 |
| SUBMIT EIA/IWULA/WML REPORTS | SUBMIT EIA/IWULA/ AEL/WML REPORTS | Dec 2025 |
| AUTHORITY REVIEW AND EVALUALTIONS | AUTHORITY REVIEW AND EVALUALTIONS | Dec 25 - Feb 2026 |
| EA EXPECTED | EA EXPECTED | Apr/May 2026 |





gudaniconsulting
ENVIRONMENTAL & SOCIAL SCIENTISTS

QUESTIONS AND CLARITY !!

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