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Started in 2010, Mining Engineering Services is a major EPCM contractor in DRC providing solutions like design, engineering, procurement, plant erection and commissioning, Power sector solutions including transmission & distribution lines, manpower services, maintenance and spares services, equipment rental etc.

MES also specializes in the manufacturing and refurbishment of cathode plates for the mining sector. Additionally, it operates recycling plants for copper and lead scraps, batteries, and used oil, promoting sustainable practices. With capabilities in fabrication, pre-engineered buildings (PEB), and roofing sheet production, MES serves as a comprehensive one-stop solution provider for all mining and industrial needs.

#### **Key Facts:**

- MES is part of Vinmart Group which has presence in DRC since last 3 decades
- Large warehousing facilities and efficient delivery system across Africa Region
- Strong logistic support from group companies in China, India, UAE, Tanzania,
   Zambia, Turkey and South Africa.
- Stringent Occupational Health & Safety System (ISO 14001:2015),
   Stringent Quality Management System (ISO 9001:2015) and
   Stringent Environmental Management System (ISO 14001: 2015)

Over the years, MES has diversified into multiple business segments to cater to the needs of both Industrial and retail customers. Following companies have been formed under the guidance of Technical supervision of MES



Started in 2021, Congo Piping SAS provides one-stop piping solution for all kinds of applications. The state-of-the-art facility located in Lubumbashi, DRC can manufacture pipes of diameter range 16mm up to 1000mm apart from making various types of pipe fittings.



CCT was established in early 2022 with an objective to manufacture varieties of electrical products in congo which include copper bar, copper wire, copper pipes, Aluminum conductors, transformers etc. The state-of-the-art manufacturing facility is located in Lubumbashi, DRC which also houses a world class laboratory facility.



Anodos Africa was established in the year 2018 for manufacturing of New Anode Plates required for Copper & Cobalt production. Anodos Africa is also recycling Scrap Batteries to produce pure lead which is used as raw material for Anode Plates production. Anode Scrap Recycling capacity is 10,000 tons per year. Battery recycling capacity is 7,500 MT which can produce 5,000 MT of Lead Billets per year.



Clean Congo SAS was established in the year 2018 with an objective of providing integrated, innovative & sustainable waste management solutions in solid (both biodegradable & non-biodegradable) waste and liquid (both industrial wastewater & domestic grey water/sewage) waste to industry & community.





Steelco provides the ONE STOP SOLUTIONS for the metal fabrication and roofing needs of diverse range of customers ranging from industrial needs of the Mines & Process plants to affordable range of products for the commercial customers.



MAMBA - Roofing Sheets, a quality manufacturing brand under STEEL-CO, for the manufacturing of roof sheets and its accessories, to satisfy the needs of both, Industrial and commercial customers.



Toolbox, a trusted distributor in the DRC, offers a wide range of engineering products, including Lincoln lubrication systems, SKF bearings, Bosch and Deko power tools, ESAB and GekaMac welding tools, diesel generators, pumps, motors, and Schwing Stetter concrete equipment.



Congo Care supports healthcare sectors with medical services that include the supply of medical equipment, consumables, and essential healthcare products. Also provides trained medical personnel like Doctors, Nurses, Physiotherapists etc. Congo care division aims to provide reliable and efficient medical solutions in the central African region.



Congo Media Network stands as a leading provider of comprehensive marketing, media, and branding solutions. With a deep understanding of the power of strategic communication in today's dynamic business environment, CMN dedicated to elevating brand's presence through creativity and innovation, delivering impactful results that drive success.



MES Equipment Rental Services offers rental and sales services for Cranes, Cherry Picker, Boom Trucks, Canters, Dump Trucks, JCBS, Front-end Loaders, Light Vehicles, Buses etc. This division also provides Engineering services like Lifting solutions of heavy machineries upto 650 MT.



AT MES Concrete, we provide best quality Ready Mix Concrete products at the door step of the client at affordable price. Our vast experience and expertise in the construction industry makes it easier for us to under-stand client's requirement precisely. We are well equipped to handle big industrial, commercial & infrastructure projects.



Congo Power Solution (CPS) is a leading Power Solutions Marketing and Service Company dedicated to providing comprehensive and innovative energy solutions to our clients. With a strong focus on reliability and sustainability, and customer satisfaction, we strive to meet the diverse power needs of various industries and organizations.



MES Scaffolding Rental Services offer cost-effective and flexible solutions with high-quality, well-maintained equipment tailored to meet diverse project needs. Our expert support ensures safety compliance, quick installation, and a variety of scaffolding types, making us the ideal partner for efficient and safe project execution.





We aspire to become the most significant and reliable Congolese brand offering engineering products, services and innovative solutions to all our esteemed customers across African continent and beyond.

We shall endeavor to exceed customer expectations by delivering international quality standard products sourced globally or manufactured locally in DR Congo by our team of highly qualified, efficient and engaged work force in a safe, climate friendly environment.



Mining Engineering Services will be a professionally managed Congolese Multinational committed to total customer satisfaction and enhancing shareholder value.

Our team shall be an innovative, entrepreneurial and empowered team constantly creating value and attracting industry benchmarks. Mining Engineering Services will foster a culture of caring, trust and continuous learning while meeting expectation of employees, stakeholders and society.





#### **One Stop Solution**



This division was formed in 2010 to serve the mining industries for their requirements of engineering items.

Since its establishment, the division has built and maintained an excellent reputation through quality work and the timely completion of numerous projects. A team of experienced and dedicated professionals, supported by strategic alliances with renowned manufacturers, drives the division's growth across a broad spectrum of fields.

Having strategic alliance with renowned manufacturers across the globe for whole range of equipment from mineral dressing to extraction of metal making, we are in a position to execute projects on turnkey basis, provide after sales services and offer specialized services for different requirements of the industry













# **Major Projects**

Sulphuric acid plant: Capacity 250 MT / Day & 2 MV of power generation at Lupoto and KIMIN Mines.

- SX EW Plant: Capacity Copper- 30k ton/year at Lupoto and KIMIN mines, Cobalt 3600 ton at KIMIN (Commissioned), SMBS plant: Capacity 100 MI/Day
- Vat Leaching Plant: Capacity Copper-6K ton (commissioned 2020) KIMIN 5 WMT, TFM 3x8 WMT, MUMI 5x6 WMT.
- Cobalt Hydroxide Dryers: Somika 2 WMT & 3 WMT, Ruashi 3x3.7 WMT.
- STL Mines, Lubumbashi: Civil & Earthworks, SMPP work for Copper Retreat Plant.
- KICO (Kipushi Zinc Project, Lubumbashi): Civil & Earthworks, Mechanical and structural work.
- CHEMAF-Mutoshi Mines, Kolwezi: SMPP Work for Copper and Cobalt Plant.
- Multiple Infrastructure and plant construction projects in Metalkol, MUMI, KCC, Kamoa Mines

#### **Our Field Of Work**

# **Turnkey Project:**

- Hydro Metallurgical plant for copper extraction
- Sulphuric Acid Plant
- Cobalt Hydroxide Dryers
- Vat Leaching Plant
- SMBS plant (sodium metabisulfite)
- Steel Plant
- Oxygen & Acetylene Plant
- Mineral Processing Plant
- Cushing Plant
- Solar Power Units
- Electrical Power Receiving Station & Substation
- Micro Hydro power Units

#### Supply

- Lead Anodes
- Capping Board
- SS cathode with edge strips
- Copper Bus Bars
- Slurry Weak acid/Electrolyte circulation pumps
- PP/HDPE/PVC pipes, sheets and valves
- FRP/STEEL Gratings, PP Lined FRP Tanks
- Power and distribution transformers
- Electrical Distribution & MCC Panels
- Automation system for buildings & Industries

- Pre-Engineering Plant Building
- Ore Washing Plant
- Mineral Processing Plant
- Material Handling Plant
- Agitator Leaching units
- Filter Press and Horizontal Belt Filters
- Electrolytic cells with accessories
- HDPE/PVC/PP piping
- Cathode Stripping Machine
- Heap Leaching Piping System
- Cobalt Hydroxide drying plants
- Solar Street Lights and Pumps

#### **Speciality Services**

- Rubber lining of tanks
- Leachate Pond HDPE/PVC Lining
- Conveyor vulcanizing
- Equipment overhauling
- Plant maintenance services with assured plant availability
- Plant equipment Health Monitoring
- Construction Equipment Services
- Plant and process audit services
- Earthing system Testing & Maintenance
- Transformer maintenance
- MV & LV Panel maintenance
- Motors & electrical equipment Maintenance
- Energy audit & energy saving projects

# Photo Gallery of Some Completed Projects for Various Clients









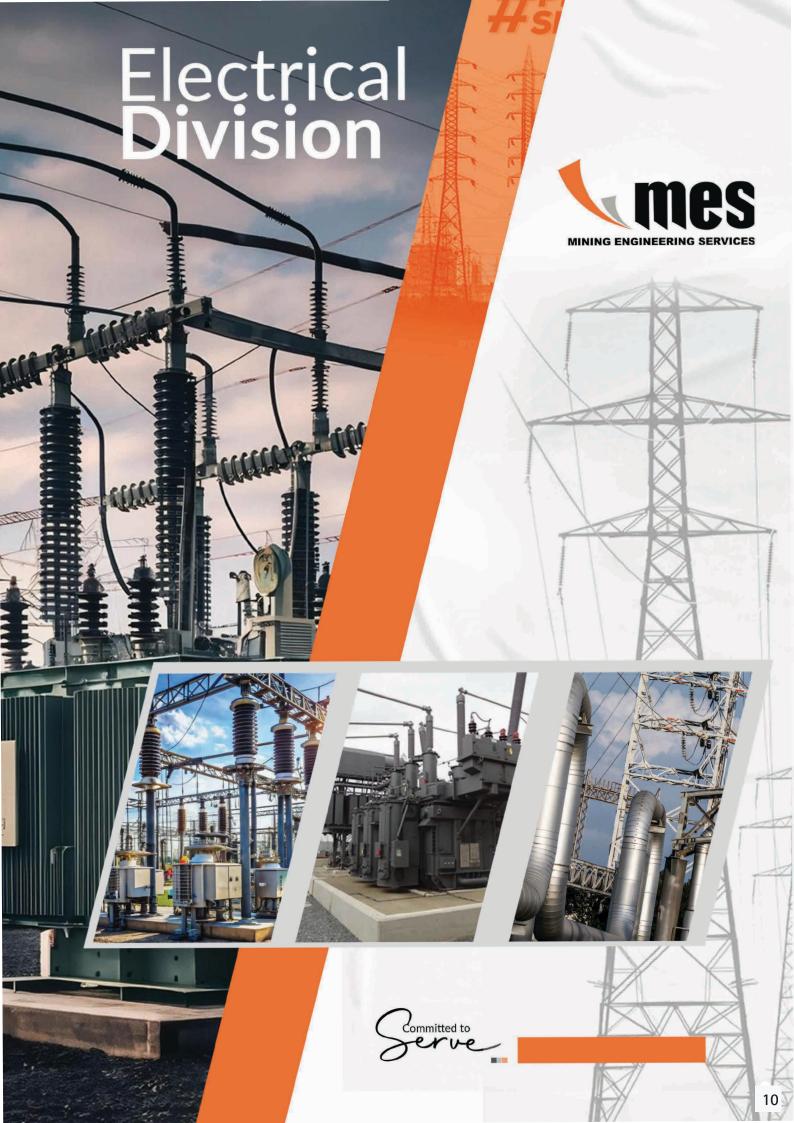
















#### Power transmission line, Substation, Process Plant Electrifications, Generators.

- Power Transmission & Distribution lines from 0.415kV to 220kV.
- Power Substations upto voltage level 220kV.
- Plant Electrification & instrumentation work.
- · Feasibility Study, Design & Engineering.
- LV, MV & HV Reticulation work up to voltage level of 120 kV
- Innovative Solutions: Containerized Mobile Substations 33kV/10mva; Load shedding Mitigation thru 15MW Containerized DG Plant (9X2250KVA DG set with synchronizing panel + Inbuilt PLC/SCADA for monitoring & control)









#### **Major Projects In Power Sector**

- 220 KV Double circuit Panda Karavia Transmission line on monopole (Client: SNEL & TFM)
- 120 KV Double circuit Transmission Line, Shilatembo to OM Metal (17.5kM) (SNEL)
- 120 KV Double circuit Transmission Line project, 30k Somika Lupoto
- 120/11 KV Tenke Substation with associate MV & LV Line at Tenke Village (Client: SNEL & TFM)
- 120 KV CT Replacement work at Mwadingusha GIS Substation ( Client: SNEL & TFM)
- 120 KV RO LILO RO KADI Line ( Client: SNEL & KCC)
- 120 KV Mupine (Mine) Line ( Client: KCC)
- 20 KV Transmission Line from Om Metal to RS Substation ( Client: SNEL)
- 120/11 KV Fungurume Substation with associate MV & LV Line at Fungurume ( Client: SNEL & TFM)
- Rerouting of 120KV Transmission Line From Tumbe to Lupoto (Client: IVERLAND SOMIKA)
- SMPP & ECI work at Smelter (Client: KAMOA COPPER SA)
- 33/11KV Substation 2x30MVA & 11KV Overhead Line (Client: KAMOA COPPER SA)

- 33/11KV Substation, 3x30MVA Substation (Client: KAMOA COPPER SA)
- MV LV Recticulation work for smelter & Kamoa accommodation ( Client: KAMOA COPPER SA )
- 30/6.6 KV Tunnel substation, 30KV Double Circuit Line & LV
- Network and 6.6/0.4 KV, 500KVA CSS (Client: SNEL)
- 33KV New Laundry Overhead Line & 36KV UG cable (Client: METALKOL)
- RSF Pumping E&I work and SMPP & Cobalt Dryer E&I work ( Client: METALKOL)
- 11KV Line work from SAP to VAT Plant for IVERLAND SOMIKA
- 11KV Line work from ATSF2 t for IVERLAND SOMIKA
- Luano City 15KV Reticulation work (Client: Soscom Forum Properties Ltd)
- 33KV Line Rehabilitation & Extention work in kilongo-kalilanda Village ( Client: MMG)
- 33KV Overhead Line netwowrk for borehole
   & infrastructure at Metalkol ( Client: METALKOL)
- 33KV Line weighbridge at Metalkol ( Client: METALKOL)



**AMCC** 

AMCC - 1 X 20MVA, 120/11kv Switchyard







**Fungurume** 

2x5MVA, 120/11 KVA Switchyard







Panda Karavia

220KV D/C Transmission line project - (L61) 37.5 KM







Samukinda Tunnel Project

120LV D/C Monopole Overhead Line









## **Sotrafer** 1x17.5 MVA, 120/11KV Switchyard





#### **Extensive Service in Power Sector**

#### Electrical Engineering Low Voltage (LV) & Medium Voltage (MV)

- MV and LV supply & distribution
- MV substations
- Power factor correction
- Overhead power lines
- Electrical Transient Analyzer Program (ETAP).
- Peripherals for offices
- Data centre electrical requirements and UPS systems
- Safety systems (Lightning protection, earthing & fire detection.)
- Security systems (CCTV, External security Lightning & access control etc.)

#### **Control & Instrumentation:**

- Flow, pressure, level and temperature monitoring for a wide range of liquids and gases.
- Control valve sizing and orifice plate calculations.
- Safety Integrity Level (SIL), hazardous area classification.
- Intrinsic safe loop design and certification.
- Control and communication services (PLC & SCADA System).
- Radio-based telemetry networks, industrial satellite-based remote monitoring and Remote Terminal Unit (RTU) panel layout and design.
- Full instrumentation and control design,
- Installation commissioning and maintenance services.
- Factory & site acceptance tests of control & instrumentation packages.



# Information & Communication Technologies

- Terrestrial radio, fibre-optic systems and networks.
- Data processing via SCADA systems for process plants.
- Advanced reporting from historiar systems, server data duplication, record keeping.
- The transmission of genera documentation.
- Process test transmissions for set-point comparison and alarm systems
- Our EC&I team is supported by our global multi-disciplinary engineering, fabrication and construction teams.
- Strong supply chain from the group companies in China, India, U.A.E, Tanzania, Zambia and South Africa.

#### **OUR KEY SECTORS**

- Oil & Gas
- Mini Infrastructure
- Mining
- Power & Energy

#### Scope of Supply: Electrical Items

- HT Panels
- PCC Panels
- IMCC
- Power
- Distribution
- High Mast Towers
- · APE
- D.G.Sets
- D.G. Solar Power
- MLDB & LDB & PDB
- a Local Control Station
- HT Cables & LT cables & Lighting Cables
- HDG Cable Tray
- FRP Cable
- Lighting and accessories
- Earthing and Accessories

# Scope of supply

# Instrumentation & Automation items

- PLC Control
- Field Instruments
- Flow Transmitters- Ultrasonic,
   Magnetic, Vortex, DP type, Level Transmitters
   Radar type E+H make
- Conductivity Transmitters
- Pressure and Temperature Transmitters
- Instrument Signal Cables
- Actuated Knife Edge Gate
- Actuated Butterfly Valves

- Actuated Globe
- ON-OFF Ball Valves
- Level Switch & Flow Switch
- Pressure Gauges
- HDG and FRP Cable Travs
- Junction Box and Cable Glands
- Instrument Hardware's
- Pressure Switches
- Dip Fit Assembly



# Efficient Project Management

we optimize resources, schedules and budgets to deliver on-time and on budget.

Contact Us:

+243 900 333 365 info@messarl.com



#### 1. RÉSIDENCIAL PROJECTS

- New Construction
- Re Establishement

- Residency Camp Development
- Land Scaping and Gardening



















#### 2. COMMERCIAL PROJECTS

- General Hospitals
- Dispensary Units
- Operation Units
- Animal Park
- Hotels

- School building
- Private & Government Offices
- Resort Projects
- Retail Shops



















#### 3. INDUSTRIAL PROJECTS

- Manufacturing Facilities
- Power Plants
- Transportation Infrastructure
- Water Treatment Plants
- Industrial Parks
- Fuel Tank

- Mining Operations
- Telecommunications Infrastructure
- Logistics Hubs
- Research and Development Centers
- Renewable Energy Projects
- Sewerage Treatment Plant



















#### 4.3D ANIMATION

- Texturing and Material Design
- Lighting and Rendering
- Environment Integration

- Editing and Post-Production
- Client Revisions and Feedback Integration
- Final Output in Multiple Formats





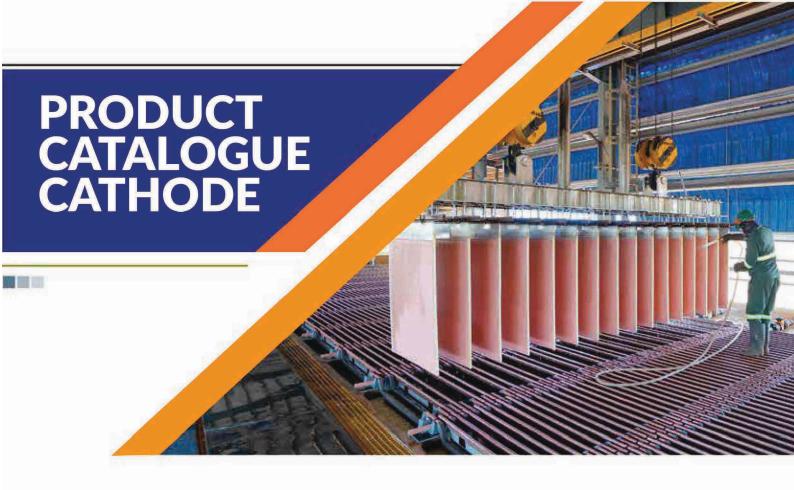
















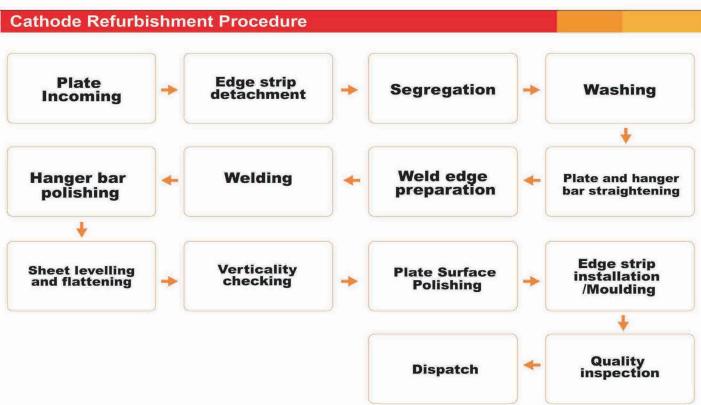


# Cathode Refurbishment Plant Lubumbashi



MES offers cathode maintenance services that ensures a failure free process, enabling higher efficiency, reducing energy consumption in the tank house and extending the lifetime of the cathodes. MES cathode maintenance services can be created depending on the customer's needs.





## **Verticality Check**

The cathode plate is hanged on the stand and checked for vertical deviation by a laser distance meter

**Straightening Stand** 



## **Finishing**

The cathode passes through high speed rollers of finishing machine to achieve good surface finish. For cathodes plate surface cleaning, we are using two polishing machines.

After polishing, QC verification is done



# **Punching**

For better edge strip bonding; holes are suitably punched on the new plate.

6mm hole is done for better strength of plastic edge strip during the moulding process.

After punching, plastic edge striping is done

#### **Refurbished Cathode**







#### Edge strip installation:

Polypropylene edge strip installation is done by injection mouling machine

Injection Moulding Machine





# Welding

We use GTAW process (Gas tungsten arc welding process) depending on welding requirement.

For repairing of cathode plates where SS to SS welding is required, we use normal Arc welding without inert gas.

For fixing hanger bar on the SS cathode plate, we use gas tungsten Arc Welding

#### Dispatch



# **Advantages of Cathode Refurbishment**





- Improvement in production of Copper cathode
- Reduction in cost of production
- Better shapes of cathode for better presentation
- Improved operation in EW
- Enhanced electro conductivity
- Increase in production efficiency
- Reduction in maintenance cost
- Improvement in copper quality



# **Electrical conductivity / Production Efficiency**

Due to repeated operation, the surface of the cathode plate (made of stainless steel) and copper hanger bar gets deteriorated. So refurbishment of the cathode plate is required to get better copper deposition on the plate during EW process. Refurbishment of cathode improves electrical conductivity during EW process there by ensuring better copper deposition on the cathode plates.



Productivity
After Cathode
Refurbishment

With Cathode Refurbishment, Current efficiency/electrical conductivity during EW Process improves.

The quality of Cathode plate, Anode plate and Edge strips impact the productivity of the process.

With cathode refurbishment, there is guaranteed increase in productivity







# **Electrowinning Operation Benefits**

- Extended cathode lifetime
- Improved tank-house efficiency
- Reduced operation and maintenance costs
- Reduced energy consumption
- Minimized downtime of the tank-house machines
- Improved copper deposition
- Better copper removal by string operation













After refurbishment

## Why Cathode refurbishment is required?

**1.** Due to repeated operation, the surface of the Cathode plate (made of Stainless Steel) and Copper hanger bar gets deteriorated. Also the cathode plates get bent during the process. So refurbishment of the cathode plate is required to get better copper deposition on the plate during EW process.

Following are some of the reasons why Cathode plates get deteriorated during the EW process:

- I. The cathodes bend after grading because of its shape and size
- II. Physical erosion caused by the two knives of the stripping machine
- III. Crane operators are also a cause of bending if they don't handle the cathode gently
- IV. Pressure from the two cylindrical structures used to unclog the copper that is stucked in the plate
- 2. Without refurbishment, following problems occur during EW process with repeated use of Cathode plates:
  - I. Poor electrical conductivity
  - II. Poor quality of copper as final product
  - III. Too much copper plugin in the plates leading to wastage
  - IV. Scratching of the plates resulting in short life of the plates
- 3. With Cathode refurbishment, Current efficiency/electrical conductivity during EW Process improves.
- **4.** Plastic edge strips get broken during EW process, which also gets replaced during cathode plate refurbishment
- **5.** The quality of Cathode plate, Anode plate and edge strips impact the productivity of the process. With cathode refurbishment, there is guaranteed increase in productivity.
- 6. Smooth and shiny surface of the cathode plate ensures better presentation.



# Why Edge Strips replacement is required?

- 1. Plastic Edge Strips get broken during EW process because of the following reasons:
- I. Chemical reaction during EW process
- II. Due to misalignment of stripping machines and cathode support assembly.
- III. Joint of edge strips not sealed properly in case of temporary edge strips.





# Benefits of Permanent Edge Strip that we offer

- We offer Permanent Edge Strips which bring down the total maintenance cost of Cathode Plates against temporary Edge Strips.
- Major difference between Permanent Plastic Edge Strip and Temporary Edge Strips
- The temporary edge strips are made manually. So joints are not sealed properly and silicon is required
  to fill the gaps to improve sealings. The permanent edge strips are melted directly in the plate.
  So the seals are tight
- 2. Life of Temporary edge strip is almost 1 to 2 months (average 1.5 months). Life of Permanent edge strip is almost 12 to 18 months (average 15 months)
- Using permanent edge strip over temporary edge strip will give significant cost saving







www.anodosafrica.com
Performance • Persistence • Partnership







# Introduction

Anodos Africa was established in the year 2018 for manufacturing of New Anode Plates required for Copper & Cobalt production. Anodos Africa is also recycling Scrap Batteries to produce pure Lead which is used as raw material for Anode Plates production. Anode Scrap Recycling capacity is 10,000 tons per year. Battery recycling capacity is 7,500 MT which can produce 5,000 MT of Lead Billets per year.

Anodos Africa is a part of Vinmart Group which has presence in DRC for more than 3 decades.



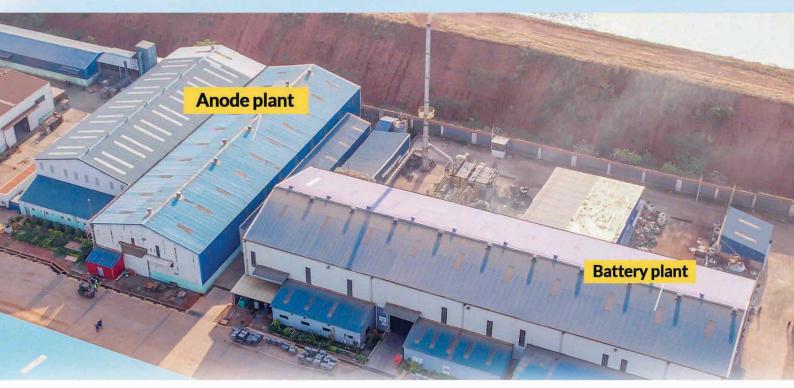












# **Advantages of Anode Plates**

Continued commitment to research and development has resulted in several advancements in lead anode longevity and performance in recent years.

This is how we provide high-standard products that extend their useful life, maintain their mechanical properties and, thanks to their technology, have greater resistance to corrosion. Likewise, they allow our clients a high energy efficiency and high purity in the extracted electrolytic copper.

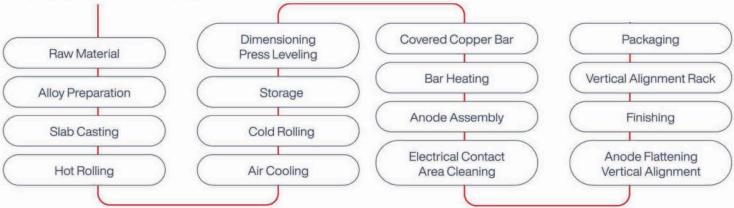
We manufacture our lead anodes with premium quality supplies, which meet high standards for the development of an efficient and sustainable mining industry.



# Our lead anodes offer the following advantages:

- 1. High resistance to deformation
- 2. High resistance to corrosion
- 3. Improves conductivity
- 4. Eliminates of risks of detachment from the body strong plate bar joint

# Process Flow Diagram Pb-Ca-Sn Anode







# **Description of the Process**

## Process for Manufacturing of Anodes

The activities involved in the process of manufacturing insoluble lead anodes of lead are described below in general terms. In the Work Instruction documents, each of these Activities is described in detail.





## Pb-Ca-Sn Alloy Preparation

It consists of preparing an alloy of lead and other components (calcium, tin, Pb) in metal pots, according to specifications. The pots must operate with temperatures according to the material used, controlled with immersion thermocouple inserted in each pot, which send the temperature values to the process control panel.

# Slab Casting or Moulding

It is the stage of transfer of the molten lead alloy from the pot to metal moulds, forming blocks, activity carried out as instructional Work Instruction AND-WRI-010, "Slab Casting".



#### **Hot Rolling**

This activity is the mechanical reduction of the blocks, at a working temperature that can vary from 280 to 240°C, until achieving a thickness, at least, three times the final thickness of the anodic sheet according to the production schedule of the month. In each pass it is reduced between 10 to 15% of the thickness, by means of rolling rollers.

# **Cold Rolling**

It is the rolling activity that is carried out after resting for approximately 24 hours at room temperature, obtained in the hot rolling activity. In this stage the thickness is reduced between 5 to 19% in each pass to determine the final thickness according to the monthly production program forming anodic sheets, according to what is established in the instruction

# Dimensioning and Levelling of Anodic Sheet

In this stage the anodic sheet is dimensioned according to format or design established for the project, made with a die-cut die mounted on eccentric press

#### Rolling and Levelling

The previously dimensioned sheets are thinned in a straightening machine which has lower and upper rollers, motorized independent adjustment. Leveler, allows to rectify the plates, ensuring the adequate flatness of the anodic sheets.

#### Aging

In this stage the anodic sheet must be in a rest position for some days specified previously.

# Assembly of Anodes and Final Terminations

Assembly of Anodes & Final Terminations is the last stage of anodic manufacturing and refers to the assembly between the anodic sheet and the copper bar and then make the final endings of the product, sequentially the activities are the following:

#### De-oxidation of Bars:

It consists of a bath with flux to deoxidize the copper bars.

#### Platinized Bars:

It is the coating of the entire copper bar with an alloy of lead, silver.

#### **Bar Moulding:**

Process in which the copper bar with a cast lead coating inside a metal mould.



# Cleaning of Electrical Contact Area, Anode Flattening & Vertical Alignment:

#### **Contact Polishing**

Refers to the removal of lead and impurities from the copper bar, corresponding to the contact area of the anode, by surface conditioning discs.

#### **Vertical Alignment**

Activity corresponding to verify the verticality of each anode using a plumb line. Any deviations out of tolerance are corrected manually by means of blows of rubber mallets.

#### **Terminations**

It must be verified by visual inspection of the anode, that it fulfills a well finished product aspect. When appropriate, the imperfections must be corrected, eliminated or minimized.

# **Anode Packaging**

#### **Packaging**

Packaging is the activity that secures lead anodes finished in wooden crates or metal racks, suitable for transport, which must be identified through labels or printed in the same drawer, indicating at least project information, number of units per drawer or Racks, customer and purchase order, the latter, only if the client requests it.

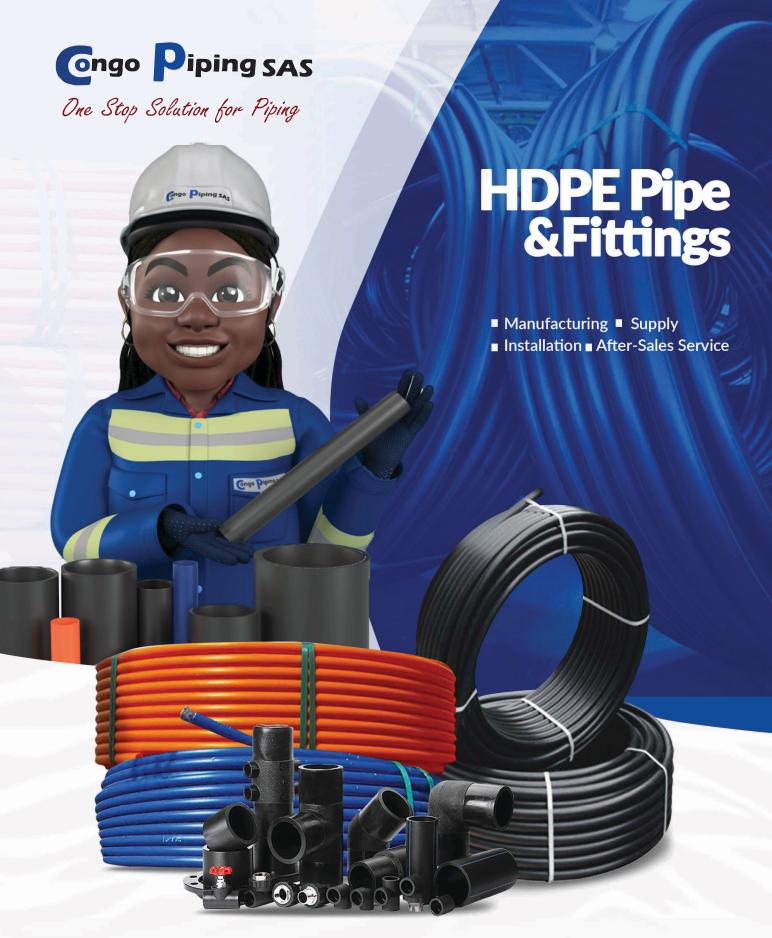
#### Release of Products

Once the anodes corresponding to each box have been packed and registered, the Quality Control Officer must verify compliance with the activities and planned provisions of the anode manufacturing process that includes reception, chemical analysis of raw materials, and the final inspection of the finished product in each drawer.

#### Delivery of Anodes to Warehouse

Once the corresponding anodes have been released, the Production Foreman must inform the Warehouse Manager of the entrance of drawers or Racks to the boarding yard by means of "Delivery Guide" together with document "Product release", received the product in Warehouse, Warehouse Manager stamped copy of Quality Control Officer Document, as evidence of receipt of the product.















#### Our Manufacturing Facility In Lubumbashi, DR Congo

- ♣ Product diameter range: 16 mm diameter to 900 mm diameter
- La Equipped with Testing Facilities conforming to International Standards
- ... Strong Technical Support & Design Team





























#### QA and QC Facility (Testing Laboratory)













#### **Fully Equipped Testing Laboratory**

#### **List of Laboratory Equipment**

- Microscope: For checking carbon dispersion
- Hot Plate: For preparing samples to be checked at microscope
- Sample Cutter: Used for samples preparation
- Tensile Tester: For checking tensile strength
- Moisture Content Analyzer: To check moisture content
- Melt Flow Index Tester : To check flow property of resin
- Carbon Black Content Tester: For checking % of carbon black in resin and pipes
- Oxidation Induction Time Tester: To check oxydation induction time of resin
- Density Tester: To check density of the resin

# Various Tests Conducted on Raw Materials

- Melt Flow Rate/Index (MFR)
- Carbon Black Content (CBC)
- Carbon black dispersion (CBD)
- Compound Density
- Oxidation induction time (OIT)





#### **Products & Services**







**HDPE Pressure Pipes** 

**HDPE Telecommunication Pipes** 

PPR Pipes Hot and Cold Water Supply

#### **Fittings Range**

made from PE100 and sizes range from category. 32mm to 630mm (Depends on fittings). All moulded fittings conform to various international quality standards and certification.

Congo Piping SAS has a wide range of One of the greatest features of HDPE pipe is that a wide range of jointing butt-weld, compression, electrofusion systems are available to suit any application. The jointing systems can be and socket-weld fittings. All fittings are divided into two main categories with further sub-divisions in each







**Moulded Stubs** 

**Moulded HDPE Flanges** 

**HPDE** blind flanges





**Moulded Electrofusion HDPE Fittings** 

**Butt Fusion Moulded Pipe Fitting** 

#### **Pre Fabricated Fittings**





#### **MECHANICAL PROPERTIES**

#### PROPERTIES OF PE COMPOUND

Physical Propeties	Test Mode	Values	Unit
Shore D. Hardness	ISO 868	61	
Tensile @ Yield	ISO 527	26	Мра
Ultimate Tensil	ISO 527	35	MPa
Ultimate Elongation	ISO 527	>600	%
Elastic Modules	ISO 527	900	Мра
Flexural Stress [3.5% Deflection]	ISO 178	19	Мра
Thermal Stability 210° C	ISO 10838	>60	min
Carbon Black Content	ASTM D 1604	>2	%

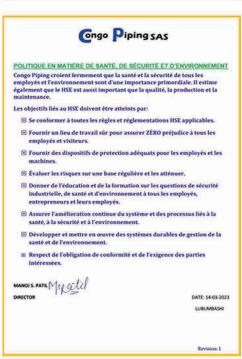
PROPETIES	REQUIREMENT	TEST METHOD	UNIT
Density	≥0.930	ISO 1183-2	GM/CC
Melt flow Rate	0.20 - 1.10	ISO 1133	GM/10MIN
Carbon Black Content	2 - 2.5	ISO 6964	%
Oxydation induction time	≥ 20	ISO 11357-6	MIN

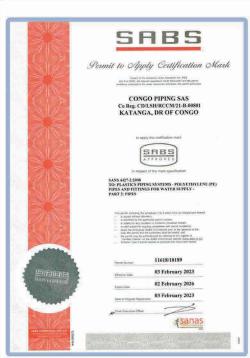
#### **Our Certificates**















#### **HDPE Pipe Applications**

#### **Drainage & Sewerage**

- Gravity lines of any kind.
- Wastewater networks, rainwater systeme.
- Combined sewers.
- Drainage systems for premises.
- Special solutions for industries and communities.
- Open-construction exchange and renewal procedures.
- Special constructions for stormwater.

#### **Mining Applications**

- Leach Lines
- Coal Decant Systems
- Mine Drainage
- Coal Tailings
- Slurry and Sludge Transport
- De-watering
- Dust Suppression
- Sand Stowing
- Fly-Ash Slurry and others
- Material Handling-Pneumatic Conveyance of particulates

#### **Fire Protection Applications**

Congo Piping SAS manufactures approved PE pipes and fitting adhering to ISO 4427 standard with pressure rating SDR9 & SDR11. Our range of approved fitting includes elbows, TEEs, etc. Our firetighting pipes are produced based on standards under stringer quality control. Our pipes & fittings are tested on each stage to comply with quality and standards.

- » Usage: Polyethylene (PE) pipes for firefighting applications
- Size Range: 50mm to 315mm
- Pressure Rating: PN16, PN20
- Standard Dimensional Ratio: SDR11, SDR9
- Available in 6m, 12m length, and rolls







#### **Other Sectors**







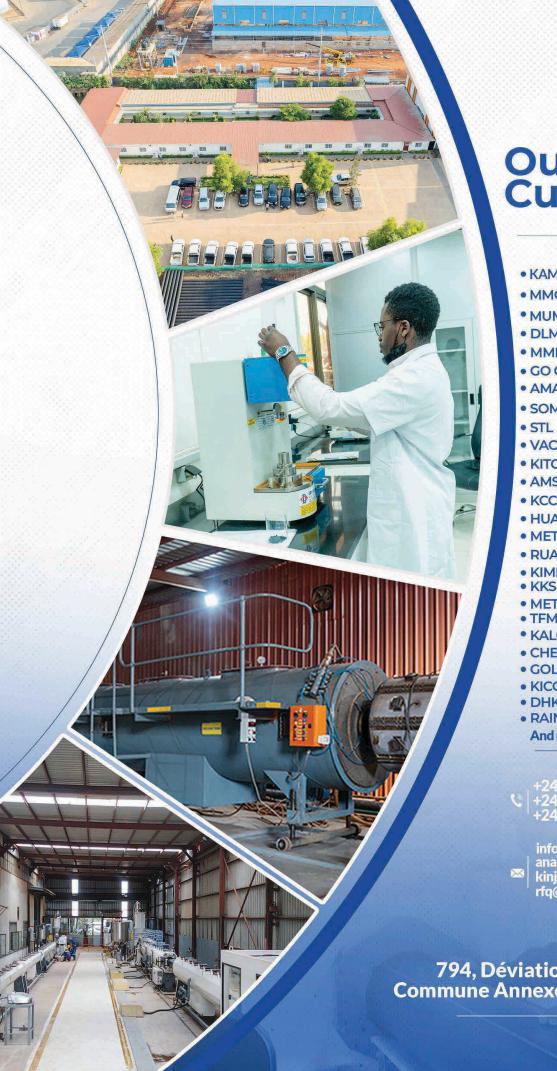










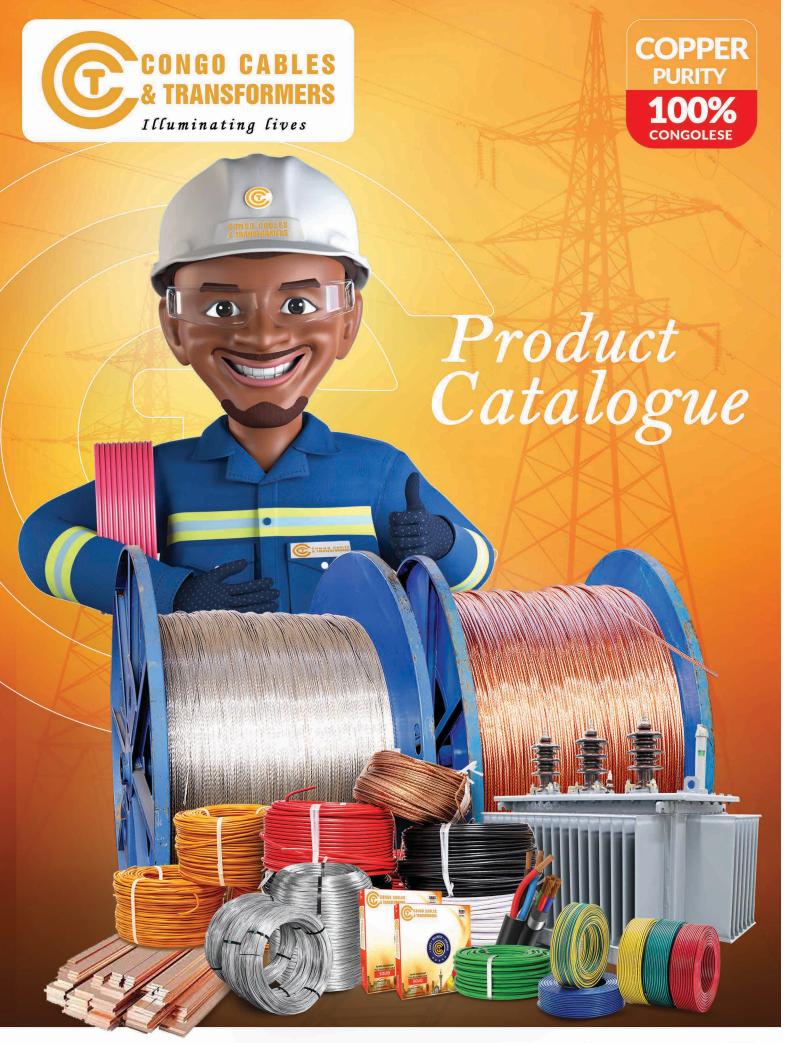


# Our Valued Customers

- KAMOA COPPERSA
- MMG
- MUMI
- DLM SARL
- MMR
- GO CONGO
- AMAZING MATOTO SOLUTION SARL
- SOMIKA
- VACC TECHNICAL LTD
- KITOBO
- · AMS
- KCC
- · HUA XI
- METAL MINE
- RUASHI MINING
- KIMIN
- KKS ENTERPRISES
- METALKOL
- TFM
- KALONGWE MINING
- CHEMAF
- GOLDEN AFRICA
- KICO
- DHK SERVICES
- RAINBOW SARL And many more
- +243 830572592 +243 906535364 +243 999977486

info@congopiping.com anand.soman@congopiping.com kinjal@mmrjv.com rfq@messarl.com

794, Déviation Route Likasi, Commune Annexe, Lubumbashi, DRC











### Our Product Range and its Salient Features



An Electric Cable and Conductor has the purpose of transporting electrical energy from one point to another. Depending on their final application. Cables and Conductor can have different configurations, always based on their design on any national and international regulations.

#### **Our Current & Future Product Range:**

Our Product Range caters to the Building & Infrastructure Projects, Mining, Oil & Natural Gas and for Data Communication. We supply cables confirming to the IEC (International Electrotechnical Commission) standards, BSEN (British Standard European Norms), SABS (South African Bureau of Standards) & also as per Customer, Application & location specific requirement.



Copper Products: Copper Strips, Copper Bar, Copper Wire, Copper Pipe, HDBC & SDBC. Overhead Conductors: ACSR, AAC, AAAC. FR/HR/LHFR/NHLSFR Single Core Solid/ Stranded/Flexible Copper Conductor, PVC Insulated Wires.

Multi Core PVC Insulated & Sheathed Flexible Cables of 300/500 V & 600/1000 V.

Multi Core Flat Submersible cables with Earth Continuity Conductor.

Surfix Cables.

Flexible Ripcord.

Flexible Single & Multicore Rubber Cables.

Flexible Welding Cables.

Instrumentation Cables.

Mining Cables.

Solar Cables.

LV & MV XLPE Insulated Armoured Cables. Dry Type / Oil Type Transformers.

















#### Salient Features of CCT Branded Cables:

- · Higher current carrying capacity.
- High Insulation Resistance.
- Electrical Energy Saving.
- High Flexibility.
- High Fire Retardancy.
- Low Emission of Toxic Gases.
- Lower Carbon Emission, Eco Healthy.
- · Resistant of Termite & Rodents.
- Resistant to moisture for use in wet area.
- Resistant heat deformation.
- Improved Life Expectancy.

#### FIRST QUALITY CHECKS PERFORMED BY CCT TO DELIVER THE "BEST QUALITY CABLES"

- 1. Quality of Conductors: The conductors are drawn from bright electrolytic grade Copper, Annealed & Bunched together (Multi Stranded) as per Class 5 as per SANS 1411-1, BS 6360.
- 2. Quality of Insulation: Copper heats up when electricity passes through it. This can cause melting and fusing of the insulation. In case of short circuit or fire, good insulation makes all the difference. In CCT Branded Cables we use the PVC compound having high Insulation Resistance Value. The Insulation process is carried out on modern high speed extrusion lines with a high degree of accuracy, thus ensuring consistency in performance.
- 3. Quality of Sheathing: In Case of multi core cables, the insulated cores are laid up to form the core assembly, sheathing is provided with specially formulated PVC compound to facilitate stripping as also to withstand mechanical abrasion while in use.
- 4. Quality Control: You are assured of the highest quality standards in every CCT product, Stringent quality control tests are applied at every stage from raw material to finished goods stage, so as to give you the best quality product, meeting relevant quality standards











## **Copper Products**





#### Copper Strip (ASTM B-187)

The high-precision brass belt produced by our company can be applied to various shallow drawing and deep drawing processing, radiator shells, automobile heat sinks, bullet shells, terminals, connectors, construction, daily decorations, clothing buttons, cosmetic boxes And other fields



#### Copper Bar (ASTM B-187)

We Manufacture & Supply round, square, hexagonal and special-shaped Copper Bars with Diameter range between  $\Phi 2.0 \text{mm}$  to  $\Phi 95 \text{mm}$  & Lengths of 2.5 m, 3 m & as per customer specific requirement . The Copper products produced by our company are suitable for various structural parts made by hot stamping and cutting, such as auto parts, communication connectors, precision hardware, etc.



#### Copper Wire (ASTM B-49)

We Manufacture & supply round, square, hexagonal, and special-shaped Rods in diameters from Ф8mm to Ф19.6mm produced from high conductivity copper, namely, electrolytic tough-pitch, oxygen-free, or fire-refined high conductivity coppers, and are suitable for further fabrication into electrical conductors.



#### Copper Pipe (ASTM B-88)

We Manufacture & Supply Copper tubes of Type K, L & M. They are used for domestic water service and distribution, fire protection, solar, fuel and oil, HVAC, compressed air, oxygen, LPG gas, snow melting, steam and vacuum systems.



## Hard Drawn Bare Copper Conductor (HDBC)



#### **Application**

Overhead transmission and distribution network applications, overhead traction system and transformer earthing (where ever highest electrical conductivity per unit area and good strength to weight ratio are required)

#### Standard

Bare stranded hard-drawn copper conductor as per BS 7884 & SANS 182-1

#### Conductor

Bare stranded hard-drawn copper conductor is a concentric-lay stranded conductor consisting of hard drawn copper wires in single layer and Multi-layer construction.

#### **Technical Data For Hard-Drawn Copper**

- 1. Volume Resistivity: 0.01777 Ω.m<sup>2</sup>/m
- 2. Conductivity: -97 %
- 3. Density: 8.89 g/cm<sup>3</sup>
- 4. Coefficient of Linear Expansion -17 X 10-°/°C

#### **Packing Length**

≤ 16.0 Sq.mm -100 mts

≥ 16.0 Sq.mm - 500mts

ratio are required)				
Cross Sectional Area	No. of Wires / Wire Size	Approx. Overall Dia.	Max. DC Resistance at 20°C	Min. Breaking Load
Sq.mm	No./mm	mm	Ω/km	kN
10	7/1.35	4.05	1.8290	3.752
14	7/1.60	4.80	1.3030	5.267
16	7/1.70	5.10	1.1540	5.946
25	7/2.10	6.30	0.75630	9.073
32	7/2.46	7.38	0.54970	11442
35	7/2.50	7.50	0.53370	12.860
50	7/3.00	9.00	0.37060	18.520
50	19/1.80	9.00	0.38190	17.70
70	7/3.55	10.65	0.26460	25.93
70	19/2.10	10.50	0.28060	24.09
95	19/2.50	11.50	0.1980	34.14
100	7/4.30	12.90	0.1810	36.54
120	19/2.80	14.0	0.15780	42.83
125	11/2.90	14.50	0.14710	45.940
150	19/3.20	16.00	0.12080	55.940
150	37/2.25	15.75	0.12640	53.880
185	19/3.55	17.75	0.09815	68.860

### **Overhead Conductors**





#### **ACSR Conductor**

(ASTM B-232,BS 215-2,EN-50182)

Aluminium conductor steel-reinforced cable (ACSR) is a type of high-capacity, high-strength stranded conductor typically used in overhead power lines. The outer strands are high-purity aluminium chosen for its good conductivity, low weight,low cost, resistance to corrosion and decent mechanical stress resistance



#### AAC-ASTM-B All Aluminum Conductors

(ASTM B-231,BS 215-1,EN-50182)

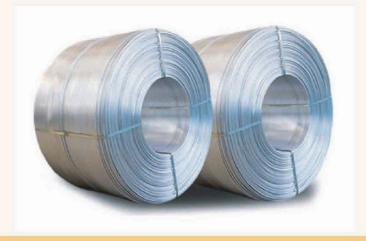
AAC are a refined Aluminium stranded conductor with a minimum metal purity of 99.7%. It is principally used in urban areas where spacing is short and the supports are close. It can be used in coastal regions owing to its high degree of corrosion resistance and is also used extensively within the Railway and Metro industries.



#### **AAAC Conductor**

(ASTM B-399,BS 3242,EN-50182)

This conductor is made from aluminium-magnesium-silicon alloy of high electrical conductivity containing enough magnesium silicide to give it better mechanical properties after treatment. These conductors are generally made out of aluminium alloy 6201.





## Single Core Solid/Stranded PVC Insulated Unsheathed Wire –FR, HR, LHFR & NHLSFR





#### **Application**

Heavy Duty Applications common wiring, Industrial wiring conduit, protected installation in switchgear, lighting and appliances

#### **Standard**

SANS 1507-2, IEC 60227, BS 7211

#### Conductor

Solid Class-1 Copper Conductor as per SANS 1411-1 Stranded Clas-2 Copper Conductor As per SANS 1411-1

#### Insulation

General Purpose for PVC Type-D2 (70°c) and High Temperature D5 (105°c) -1411-2

## Voltage Rating: 600/1000 Volts Temperature Rating -15°C To 105°C

Wire Outer Dia > 8 mm: 4x Wire Outer Dia Wire Outer Dia > 8-12 mm: 5x Wire Outer Dia Wire Outer Dia > 12 mm: 6x Wire Outer Dia

#### **Packing Length**

≤ 16.0 Sq.mm -100 mts ≥16.0 Sq.mm - 500mts

PVC Insulated UN Sheathed Single Core Cables. Rated Voltage 600/1000V												
Cross Sectional	Conductor	rs	Nom. Ins	Overall	Current	Maximum DC Resistance	Insulation Resistance					
Area	No of Wires/Size	Dia.	Thickness	Diameter	Rating in Air	at 20°C	at 23°C					
Sq.mm	No./mm	mm	mm	mm	Ampere(A)	Ω/Km	MΩ-km,Min.					
1.0	1/1.13	1.13	0.80	2.60	15	18.10	0.010					
1.0	7/0.43	1.29	0.80	2.90	15	18.10	0.010					
1.5	1/1.38	1.38	0.80	3.0	19	12.10	0.010					
1.5	7/0.53	1.59	0,80	3.20	19	12.10	0.010					
2.5	1/1.78	1.78	0.80	3.40	27	7.41	0.009					
2.5	7/0.67	2.01	0.80	3.60	27	7.41	0.009					
4	1/2.25	2.25	1.0	4,25	35	4.61	0.0074					
4	7/0.85	2.55	1.0	4.55	35	4.61	0.0074					
6	1/2.76	2.76	1,0	4.80	45	3.08	0.0061					
6	7/1.04	3.12	1.0	5.10	45	3.08	0.0061					
10	7/1.35	4.05	1.0	6.0	62	1.83	0.0061					
16	7/1.70	5,10	1,0	7.0	87	1.15	0.0051					





# Single Core Flexible PVC Insulated Unsheathed Wire–FR, HR, LHFR & NHLSFR



#### **Application**

Heavy Duty Applications common wiring, Industrial wiring conduit, protected installation in switchgear, lighting and appliances

#### Standard

SANS 1507-2, IEC 60227, BS 7211

#### Conductor

Flexible -5 Copper Conductor as per SANS 1411-1

#### Insulation

General Purpose for PVC Type-D2 (70°c) and High Temperature D5 (105°c) -1411-2

#### Voltage Rating: 600/1000 Volts Temperature Rating - 15°C To 105°C

Wire Outer Dia > 8 mm: 4x Wire Outer Dia Wire Outer Dia > 8-12 mm: 5x Wire Outer Dia Wire Outer Dia > 12 mm: 6x Wire Outer Dia

#### **Packing Length**

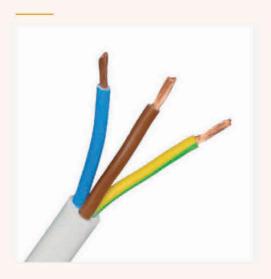
≤ 16.0 Sq.mm -100 mts ≥ 16.0 Sq.mm - 500mts

	PVC Insulation Non Sheathed Single Core Cables. Rated Voltage 600/1000V											
Cross Sectional Area	Max. Dia of Wires in Conductor	Nom. Insulation Thickness	Overall Diameter	Current Rating in Air	Maximum DC Resistance at 20°C	Insulation Resistance at 23°C						
Sq.mm	mm	mm	mm	Ampere(A)	Ω/Km	MΩ-km,Min.						
0.50	0.21	0.80	2.70	7	39	0.012						
0.75	0.21	0.80	2.90	12	26	0.011						
1.0	0.21	0.80	3.10	15	19.5	0.010						
1.50	0.26	0.80	3.40	18	13.30	0.010						
2.50	0.26	0.80	3.80	26	7.98	0.009						
4.0	0.31	1.0	4.70	34	4.95	0.0074						
6.0	0.31	1.0	5.2	44	3.30	0.0061						
10	0.41	1.0	6.40	61	1.91	0.0061						
16.0	0.41	1.0	7.80	82	1.21	0.0051						





# Multi Core PVC Insulated and Sheathed Flexible Cables 300/500 Volt



#### **Application**

Heavy Duty Applications common wiring, Industrial wiring conduit, protected installation in switchgear, lighting and appliances

#### **Packing Length**

100 Mtr and 500 Mtr

#### **Specification**

SANS 1574, IEC 60227, BS 6500

#### Conductor

Flexible Class-5 Copper Conductor as per SANS 1411-1 BS 6360

#### Insulation - SANS 1411 and BS 7655

General Purpose and Special Requirement HR, FR

#### Voltage Rating: - 300/500 VOLT

Insulation Colour : **2 Core:** Blue, Brown

**3 Core:** Green/Yellow, Blue, Brown, **4 Core:** Green/Yellow, Blue, Brown, Black

5 Core: Green/Yellow, Blue, Brown, Black, Grey

Above 5 Cores - All Cores Shall be either Grey or Black with serial numbers printed on the cores from number

one onwards.

#### Temperature Rating - 05°C to 70°C.

Minimum Bending Radius Wire Outer Dia 5x Wire Outer Dia

PHYSICAL PROPERTIES										
Cross Sectional Area	Current Rating	Maximum DC Resistance at 20°C	Insulation Resistance at 70°C	Voltage Drop AC						
Sq.mm	Amps(A)	Ω/Km	MΩ-km,Min.	m/V-Am						
0.5	4	39	0.012	69						
0.75	6	26	0.011	54						
1	10	19.5	0.010	40						
1.5	16	13.3	0.010	27						
2.5	20	7.98	0.009	16						

ELECTRICAL PROPERTIES										
No's of Core X Cross	Max. Dia of	Nom. Insulation	Nom. Sheath	Overall Diameter						
Sectional Area	Wires in Cond	Thickness	Thickness	Lower Limit	Upper Limit					
Sq.mm	mm	mm	mm	mm	mm					
2 X 0.50	0.21	0.60	0.80	5.60	7.0					
3 X 0.75	0.21	0.60	0.80	3.7 X 8.3	4.5 X 9.5					
4 X 1.50	0.26	0.70	1.0	8.	11.					
5 X 2.50	0.26	0.80	1.20	11.	14.					

## Multi Core PVC Insulated and Sheathed Flexible Cables 600/1000 Volt





#### **Application**

Industrial domestic appliances light Portable appliances and office equipment. Wiring 600/100V power applications.

#### **Packing Length**

500 Mtr

2.50

4.0

0.26

0.31

0.80

1.0

1,60

1.60

#### Specification

SANS 1574, IEC 60227, BS 6004

#### Conductor

Flexible Class-5 Copper Conductor as per SANS 1411-1 BS 6360

#### Insulation -SANS 1411-2 and BS 7655

General Purpose and Special Requirement HR, FR

#### Voltage Rating: - 600/1000 Volt

Insulation Colour: 2 Core: Red, Black

3 Core: Red, Yellow, Blue

4 Core: Red, Yellow, Blue, Black

5 Core: Red, Yellow, Blue, Black, Grey

Above 5 Cores- All Cores Shall be either Grey or Black with serial numbers printed on the cores from number

one onwards.

#### Temperature Rating - 05°C to 70°C.

Minimum Bending Radius Wire Outer Dia 5x Wire Outer Dia

	PHYSICAL PROPERTIES										
Cross Sectional Area	Current Rating	Maximum DC Resistance at 20°C	Insulation Resistance at 70°C	Voltage Drop AC							
Sq.mm	Amps(A)	Ω/Km	MΩ-km,Min.	m/V-Am							
1.50	16	13.30	0.010	27							
2.50	20	7.98	0.009	16							
4.0	28	4.95	0.0074	10							
6.0	34	3.30	0.0061	7							
10	48	1.91	0.0061	4							
16	66	1.21	0.0051	3							

## PVC INSULATED AND PVC SHEATHED CIRCULAR FLEXIBLE CABLE. RATED VOLTAGE 600/1000V PHYSICAL PROPERTIES

#### 2 CORE 3 CORE 4 CORE Cross Nom. Max Dia Sectional Insulation Nom. Approx. Nom. Sheath Approx. Nom. Sheath Approx. of Wires Sheath Overall Area **Thickness Thickness** Overall Dia **Thickness Overall Dia Thickness** Dia Sq.mm mm mm mm mm mm mm mm mm 0.26 11.15 1.50 0.80 1.60 9.50 1.60 10.30 1.60

10.80

12.60

1.60

1.60

11.32

13.32

12.28

14.90

1.60

1.80

# Twin / Three Core Flat Cable with Earth Continuity Conductor 300/500V





#### **Application**

Domestic wiring and can be installed in fixed installations in dry or damp premises clipped to surfaces, on trays or in free air where the risk of mechanical damage would not be an issue. Suitable for laying in.

#### **Specification**

SANS 1507-2

#### Conductor

Solid (Class 1) & Stranded (Class 2) plain copper conductors to SANS:1411-1

#### Insulation

PVC (Polyvinyl Chloride) as per & SANS: 1411-2, **Insulation Type:** General Purpose and Special

Requirement HR,FR

Insulation Colour: Red, Black or Blue, Brown

Sheath: PVC (Polyvinyl Chloride) as per IEC:60502-1 &

SANS: 1411-2

Type of Sheath: General Purpose and Special

Requirement, LHFR **Sheath Colour:** Grey

**Voltage Rating(Uo/U):** 300/500 Volt **Temperature Rating:** -15°C to +70°C (Special Requirement -15°C to +105°C)

**Short Circuit Rating: 160°C** 

Minimum Bending Radius: 6 X overall diameter

	PHYSICAL PROPERTIES										
No's of Core	Conductors		Nom	Nom	Earth	Overall I	Diameter				
X Cross Sectional Area	Nos of Wires in Cond/Size	Conductor Dia. (Approx.)	Insulation Thickness	Sheath Thickness	Continuity Cond Area	Lower Limit	Upper Limit				
Sq.mm	NO./mm	mm	mm	mm	mm	mm	mm				
2 X 1.0	1/1.13	1.13	0.60	0,90	1.0	4.0 X 7.2	4.7 X 8.60				
2 X 1.0	7/0.43	1.29	0.60	0.90	1.0	4.0 X 7.2	41 X 8.60				
2 X 1.5	1/1.38	1.38	0.70	0.90	1.0	4.4 X 8.2	5.4 X 9.60				
2 X 1.5	7/0.53	1.59	0.80	0,90	1.0	4.4 X 8.2	5.4 X 9,60				
2 X 2.5	1/1.78	1.78	0.80	1.0	1.5	5.2 X 9.80	6.2 X 11.50				
2 X 2.5	7/0.67	2.01	0.80	1.0	1.5	5.2 X 9.80	6.2 X 11.50				
2 X 4.0	7/0.85	2.55	0.80	1.10	1.5	5.6 X 10.5	7.2 X 13.0				

#### PVC Nitrile Insulated and PVC Nitrile Sheathed Circular & Flat Submersible pump Flexible Cable. Rated Voltage 600/1000V

## PHYSICAL PROPERTIES 2 CORI

Cross	Mary Dia at			DRE	3 CORE	
Sectional Area	Max Dia of Wires in Cond	Nom.Insulation Thickness	Nom. Sheath Thickness	Approx. Overall Dia	Nom.Sheath Thickness	Approx. Overall Dia
Sq.mm	mm	mm	mm	mm	mm	mm
1.50	0.26	0.80	1.50	5.10 X 12	1.50	5.10X13.25
2.50	0.26	0.80	1.80	5.8 X 14.8	1.80	5.8 X 18,85
4.0	0.31	1.0	1.80	8.4 X 17.85	1.80	8.4 X 22.60
6.0	0.31	1.0	1.80	9 X19.60	1.80	9 X 24.96

### Surfix Cable 300/500V





#### **Application**

To be used for wiring in roof spaces, hollow Walts, under -plastering & surface wiring.

**Specification:** SANS 1507-2

Conductor: Plain copper (Class 1 & 2) conductors to SANS:1411-1

**Insulation:** PVC (Polyvinyl Chloride) as per SANS: 1411-2 **Insulation Type:** General Purpose and Special Requirement HR,FR

Insulation Colour

2 Core : Red,Black

3 Core: Red, Yellow, Blue

4 Core: Red, Yellow, Blue, Black

Screening Laid up Cores screened with aluminium/ Mylar tape, helically applied with the metallic side down, in electrical contact with a

annealed tinned copper Earth continuity Conductor.

Type of Sheath: General Purpose and Special Requirement, LHFR

Sheath Colour: White Or Black Voltage Rating(Uo/U): 300/500 Volt Temperature Rating: -15°C to +70°C (Special Requirement-15°C to +105°C)

## Flexible Ripcord 300/500V



**Specification:** SANS 1507-2

**Conductor:** Flexible copper (Class 5) conductors to SANS:1411-1.

**Insulation :** PVC (Polyvinyl Chloride) as per SANS: 1411-2 **Insulation Type:** General Purpose and Special Requirement HR,FR

**Insulation Colour:** 2 Core insulated with white ,Black with Ridge

Identification. or other Colour Required by Customer

Voltage Rating(Uo/U): 300/500 Volt Temperature Rating: -5°C to +70°C (Special Requirement-15°C to +105°C)

Application: Can be used in Alarm System, intercom, Audio System, and Lighting Appliances

	PVC Insulated and Flexible Ripcord Cable. Rated Voltage 300/500V											
Cross Sectional Area	Max Dia of Wires in Cond	Nom Insulation Thickness	Overall Diameter	Current Rating	Voltage Drop AC	Max DC Resistance at 20°C	Ins Resistance at 70°C					
Sq.mm	mm	mm	mm	Amps(A)	m/V-Am	Ω/Km	MΩ km,Min.					
0.5	0.2	0.60	2.5 X 5.0	3	93	39	0.012					
0.75	0.2	0.60	2.8 X 5.5	6	62	26	0.011					
1	0.2	0.60	3.2 X 6.2	10	46	19.5	0.010					
2	0.2	0.70	3.4 X 6.8	16	32	13.3	0.010					
3	0.2	0.80	3.8 X 7.7	25	19	7.98	0.009					
4	0.2	0.8	4.8 X 9.5	32	12	4.95	0.0074					

## Flexible Single & Multicore Core Rubber Cable



#### **Application**

These cables are designed for industrial use to provide high flexibility and have the capacity to withstand weather, mechanical and thermal stress.

Applications include handling

Applications include handling equipment; also use in several industrial environments and cold environments.

**Specification:** SANS 1574-5, BS EN 50525-2, BS 7919, SANS

1520

**Conductor:** Flexible Class-5 Copper Conductor as per SANS

1411-1 BS 6360

Insulation: SANS 1411 and BS 7655: RUBBER

Voltage Rating: 450/750 Volt and 600/1000 Volt

INSULATION COLOUR: 1 Core: Green/Yellow, Black Blue, Brown, Grey, Red, White (450/750 & 600/1000Volt)

#### 600/1000 Volt

2 Core: Red, Black

3 Core: Red, Yellow, Blue,

4 Core: Red, Yellow, Blue,

Black

**5 Core :** Red, Yellow, Blue,

Black, Grev

#### 450/750 Volt

2 Core: Blue, Brown

**3 Core :** Green, Yellow, Blue, Brown **4 Core :** Green, Yellow, Blue, Brown,

Black

5 Core: Green, Yellow, Blue, Brown,

Black & Grev

Above 5 Cores- All Cores Shall be either Grey or Black with serial numbers printed on the cores from number one onwards.

Temperature Rating: 15°c to 60°c.

Minimum Bending Redius Wire Outer Dia 6 X Outer Dia

Packing Length: 500 Mtr

## Flexible Welding Cable 100V



**Application** 

For use in electric automatic/Manual welding machine.

Specification: SANS 1576 & 1574-3

Conductor: Extra Flexible copper (Class 6) conductors to

SANS:1411-1, IEC 60228:2005

#### **Insulation Colors:**

PVC Nitrile (Polyvinyl Chloride as per SANS: 1411-2

Insulation Colour: Red, Yellow, Blue, Black & Other Colour Available

on Order.

**Sheath:** PVC Nitrile(Polyvinyl Chloride) as per SANS: 1411-2 **Type Of Sheath:**General Purpose and Special Requirement

LHFR Sheath Colour: Black, Orange (Other Colour

Required by Customer)

Voltage Rating: 100 Volt

Temperature Rating: -15°C to +70°C

**Short Circuit Rating: 160°C** 

Minimum Bending Radius: Fixed: 6 x overall diameter



## Copper Conductor Polyethylene or XLPE Insulated, PVC Sheathed Individual & Overall Screened Instrument, 300/500 and 600/1000 Voltage Unarmoured Cable, BS EN 50288-7



**Specification:** SANS 1507-2

**Conductor:** Copper Conductor Annealed plain or Tinned Stranded round class-2 or Flexible class-5 as per EN 50288-1

Insulation PVC as per EN 50228-1,EN 50290-2-21 Insulation Pair colour WHITE/BLUE with pair number

Two insulated cores shall be uniformly Pairing

twisted together to form a pair with maximum lay length of 100 mm.

Individual Screening Each pair screened with Aluminium

Mylar tape helically applied with the metallic side down, in electrical contact with a tinned

annealed copper drain wire 0.5 Sq.mm.

#### **Application**

Cable are generally designed for indoor and outdoor that convey low energy electrical signals used for monitoring or controlling electrical power systems and their associated processes.

Typical applications include industrial equipment control, broadcasting, assemble equipment, or mass transit systems.

Cabling Overall

Twisted pair are laid up together. Screening Accumulated pair screened with Aluminium Mylar tape ,helically applied with the metallic side down, in electrical contact with a tinned annealed copper drain wire of

0.5 Sq.mm.Polyester (Mylar)Tape

Binder Outer sheath

PVC(Polyvinyl Chloride)as per EN 50288-Tape (Optional) 1,EN 20290-2-22, (Special Requirement Low Halogen Flame Retardant & Zero Halogen Flame Retardant as per EN 50290-2-26)

Conductor Size (Sq.mm)	0.5	0.75	1	1.5	2.5
Conductor Resistance Ω/km (Max.)	36.7	12.3	7.5		
Insulation Resistance M Ω/km(Min.)	10				
Mutual Capacitance pF/m (Max.)			250		
"Inductance to Resistance Ratio ( I/R) pH/Ω(Max.)"	25	25	25	40	60
Test Voltage AC Volt(rms)for 1 Minute	1000				

Temperature rating Fixed: -15°C to + 90°C Sheath Colour Blue, Black & as per Requirement





## **Up Coming Product Range...**





# LV PVC/XLPE Insulated Armoured Cables

**Application**: Power Cables for Low Voltage, with Working Voltage of 600/1000 Volts & with highest Conductor cross section up to 630 SQMM. These LV Cables are applied Indoors or outdoors in cable ducts, cable trays, conduits, or underground locations under mechanical stresses in power and switching stations. Local distribution systems, industrial and commercial units for basic power & lighting purpose.



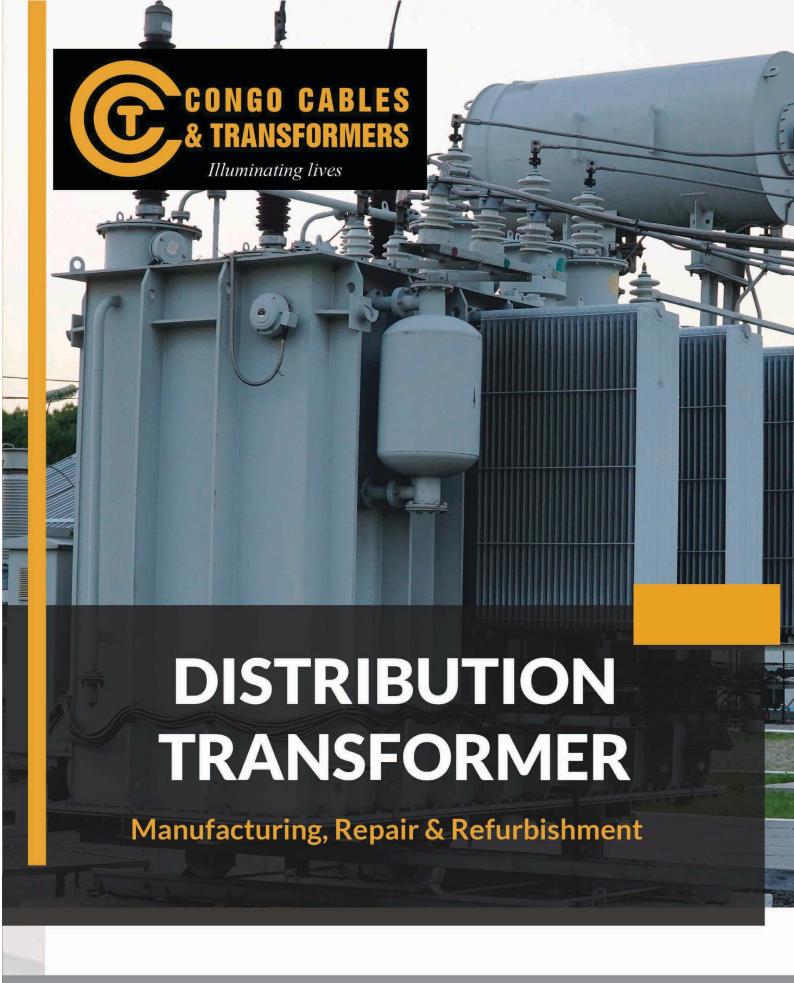
# MV XLPE Insulated Armoured Cables

**Application**: Power Cables for Medium Voltage (up to 33kV) are used in outdoor cable ducts, Cable Trays, conduits, or underground locations under mechanical stresses in power & switching stations local distribution systems & industrial plants.



### **Transformers**

- Dry type/ Oil type transformers from 50KVA to 2,500 KVA upto 33KV Class.
- Dry Type/ Oil Type Transformers in Compact Sub Stations (CSS) applications.











## Transformers Manufacturing & Services



#### Manufacturing products

Distribution Transformers, Dry Type Transformers & Compact Sub-stations

#### **Technical specifications**

Ratings	Up to 2500 kVA	
Voltage Class	Upto 33 kV	
Number of Phase	Three Phase, Single Phase	
Duty, Type	Outdoor / Indoor, Pole Pad or Ground Mounted	
Applicable Standards	IEC 60076	
Type of Cooling	ONAN / ONAF with Corrugation or Pressed Steel Radiators	
Insulating Fluid	Mineral Oil as per specification	
Insulation Level	< 12 kV < 24 kV < 36 kV	
Vector Group	Dyn1 or Dyn5 or Dyn11 or any specific	
Winding Material	Copper / Aluminum	
Tapping Range	+ 5% to - 5% in steps of 2.5%	
Impedance	In line with applicable standards(or) As per customer requirement	

#### **Standard Fittings**

- · H. V. Bushing
- · L. V. Bushing
- Off Circuit Tap Changer
- Conservator oil filling hole with cap & drain plug
- Bi-directional rollers
- Earthing terminals
- Drain cum bottom filter
- Valve with sampling plug
- Top filter valve with sampling plug
- Plain Oil Level gauge
- Rating diagram plate
- Air release device
- Lifting lugs
- Pressed Steel Radiators

#### Repair, Refurbishment and Services

The process includes replacement of damaged or worn-out parts and accessories of the Transformer including Bushings, Gaskets, Gauges, etc. as well as filtration or replacement of Transformer Oil depending on the condition of the Oil. It also follows taking care of any damages to the body of the Transformer in terms of Paint Damages and Leakages

- AMC: Transformer inspection, health checkup and fault diagnostics.
- Buyback Aged Transformer: Refurbishment or Buyback, Exchange of aged transformer
- Emergency replacements: We have inventory system of available transformers. We can respond quickly to your problem for replacements.
- Emergency repairs: When a replacement transformer is not available, absolutely no one can turn around your repair faster than us.
- Door services: These services include on-site disassembly, transportation to our facility, indoor un-tanking, inspection, repairing and testing, return delivery to your location, re-assembly, Oil filling, vacuum filling and field testing

#### **Design Manufacturing and Supplies**

- · Design customized as per requirement
- Manufacturing and Supplies of Transformers
- · Supply of Compact Sub Station
- · Supplies of Spares

#### Special Customer Support

- Readily standard transformers in Stock
- · Technical support
- · 24X7 on-site service
- · After Sales Support

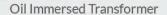
#### Motor, Submersible Pump & Alternator Repairing

- Rewinding LV Motors, Generator replacing the copper/aluminum windings within the motor's stator
- Varnishing and Drying Oven
- Analyze motor failures
- · Replace damaged parts

- Correct improper operating conditions of the Motors
- · Rebalancing of rotor
- Complete Overhauling of Motors and Submersible Water pump
- · Bearing, Fan, Fan cowl replacement
- SKF Bearing Authorized Distributor

### **Manufacturing Products**







Dry Type Transformer



**Compact Substation** 

## **Repairing & Services**



Transformer Repairing



**Motor Repairing** 



Submersible Pump Repairing

- Congo Cables And Transformers 794, Deviation de Route Likasi Commune Annexe Lubumbashi DRC
- $\begin{tabular}{ll} \hline $\square$ in fo@cctsas.com, sales@cctsas.com, rahul.lokhande@cctsas.com \end{tabular}$
- (+243) 890026900











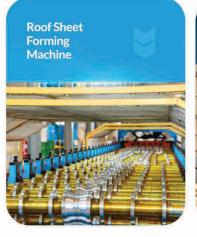


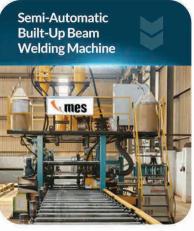
STATE-OF-THE-ART FACTORY LOCATED IN LUBUMBASHI, DRC

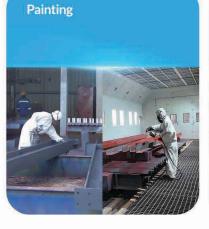












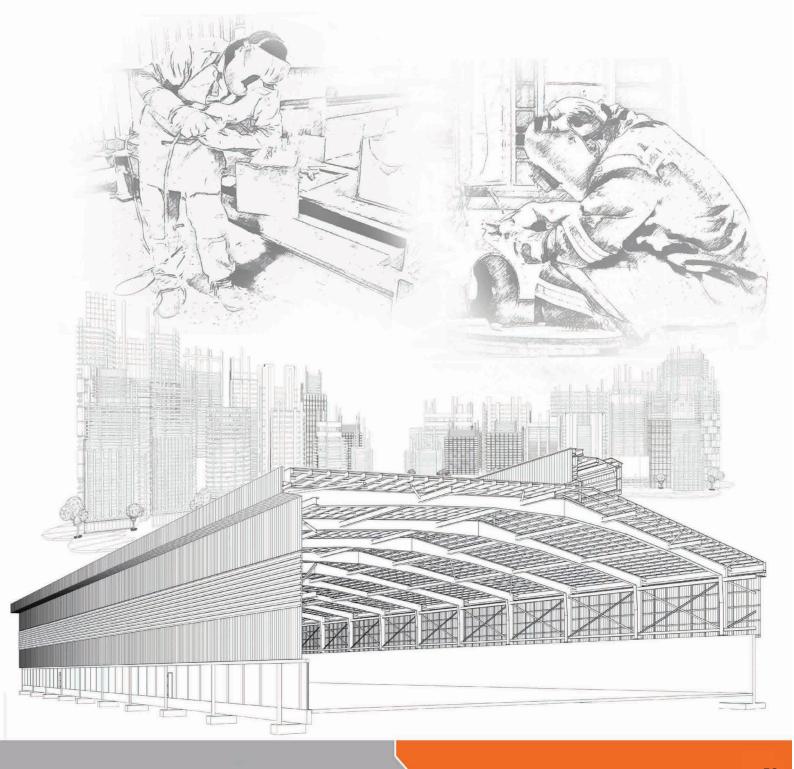




## One Stop

# FABRICATION SOLUTION

- Any type of industrial fabrication
- Pre Engineered Building Manufacturing
- Bulk Material Handling Equipment Supplies
- Roofing and its accessories



## FABRICATION & PEB MANUFACTURING UNIT AT MES



STEELCO is known as quality manufacturer of Pre-engineered building and allied products viz: IBR Profile Colour Coated Metal Sheets (PPGI, PPGL and ALUMINIUM), bare galvalume sheets, FRP corrugated sheets, polycarbonate sheet, perforated sheet, turbo ventilators, "Z" and "C" purlin, metal deck sheet, flashings/accessories, and many other such products.

STEELCO offers turnkey projects viz. design, manufacturing, erection of process plants, warehouse, show rooms, community hall, architectural buildings, storage sheds, office and commercial buildings, schools, hospitals, and airport hangars etc.

Our huge infrastructure is located at Lubumbashi, DRCongo which manufactures Pre Engineered Building and other fabrication like tanks, bulk material handling equipment (conveyor & accessories) etc.

#### STEELCO Fabrication Services

- Steel structures, technological structures, tanks, conveyor structures hoppers & bins, ducts, chimney, cross over bridge, silos
- Furnace
- Any type of industrial structural fabrication
- Warehouses and weigh bridges fabrication
- On site fabrication of thickeners, large capacity storage tanks, agitators, piping (stainless steel and carbon steel)
- Rubber lining of hoppers and tanks
- Wear resistant lining of hoppers and chutes
- CNC plate processing
- Material rolling
- Mechanical main line piping & process piping
- Dis-similar metal working
- Many other services as per client requirements

## STEELCO in-house Welding capabilities

- SMAW
- TIG
- MIG
- FCAW
- SAW
- GAS WELDING .DING

## Fabrication Materials that we work with:

- Carbon steel
- Stainless steel (304, 316 etc)
- Duplex steel (LDX, SDX)
- Liner plates

   a) Wear resistant steel plates,
   b)Low friction UHMWPE plates
- Boiler Quality plates

## Manufacturing & Installed capacity of our Lubumbashi Plant:

Factory :1,00,000 Sq. ft
Open Storage Area :1,00,000 Sq. ft.
Office :3500 Sq. ft



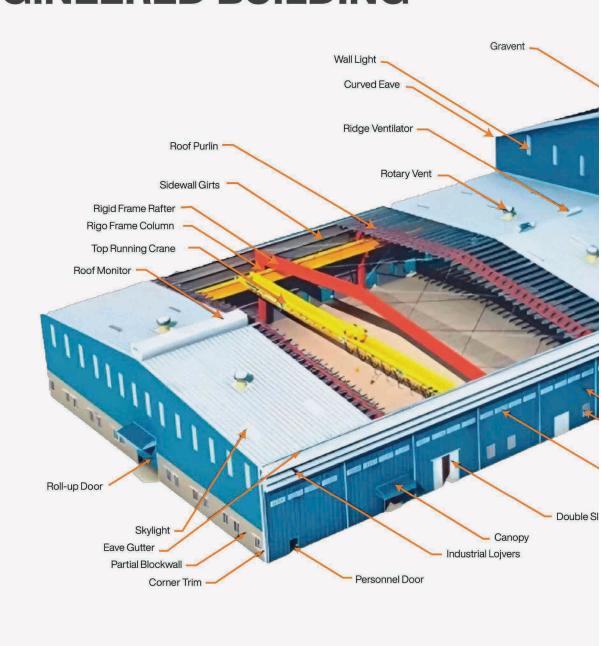




# COMPONENTS OF PRE-ENGINEERED BUILDING

## Fabri Divis





#### **Pre-engineered Building's Advantages**



Super fast construction in comparison to conventional construction methods.



Cost effective and economical building solution.



Column less large clear spans can be easily achieved with effective costing



Pre-engineered building offers great flexibility in terms of Future expansions and modifications.



Due to manufacturing under factory controlled environment, highest Quality standards are maintained.



Long durability and Low maintenance cost.

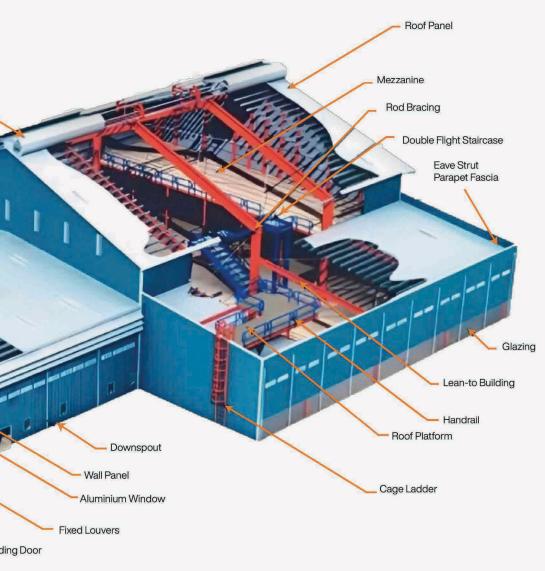


Pre-Engineered building construction is green building construction due to recyclable properties of steel.



Hassle free construction for client due to single source responsibility of Pre-Engineered building supplier.





#### **Products Offered**

#### Primary Structural Systems

- Main Frame
- Mezzanine
- Crane support system
- Fascias
- Canopies
- Truss
- Curved Beam

#### Secondary Members

- · Purlins & Girts
- Eave Strut
- C-Sections
- Curved Eave
- Open Web Joist
- Bracing Systems

#### Cladding Systems

- · Profiled roof sheets
- South African
   Standard Colors
- Insulations

#### Accessories

- Skylight
- Turbo vents
- Ridge Vents
- Louvers (metal & polycarbonate)
- · Polycarbonate Sheets
- Rolling Shutters
- · Sliding Doors & Windows

# PRE-ENGINEERED BUILDINGS



Pre-engineered steel buildings can be 100% custom design to provide maximum space utilization, excellent strength, minimum waste, and a building use case.





Efficient usage of space with better aesthetics than conventional buildings.



Architectural Buildings / Showrooms



Large Warehouses & Storage Sheds



Fabrication Workshops with Crane



**Processing Plants** 



Entry Exit Gate Canopy









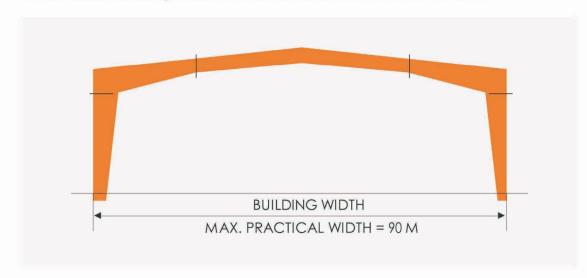
Office and commercial buildings, schools, hospitals, and airport hangars, Sport Complex, Petrol pump

# PRIMARY STRUCTURAL SYSTEMS



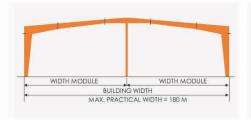
#### **Primary Members**

Moment-resisting frames provide lateral stability and transfer the roof and wall loads to the foundations through anchor bolts. All built-up numbers conform to A 570/572 of Grade 35 MPA.



#### CLEAR SPAN OPTIONS (CS):

Span : 6 to 75 M Height : 3 to 15 M Slope : 1:10 Bay : up to 9 M



#### MULTI SPAN (MS):

Span : 24 to 150 M Height : 3 to 15 M Slope : 1:10 Bay : up to 9 M



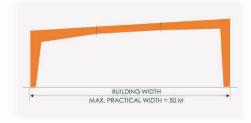
#### **MULTI GABLE (MG):**

Span : 18 to 175 M Height : 3 to 12 M Slope : 1:10 Bay : up to 9 M



#### **CURVED RAFTERS (CR):**

Span : 6 to 50 M Height : 3 to 15 M Bay : up to 9 M



#### SINGLE SLOPE (SS):

Span : 6 to 50 M Height : 3 to 12 M Slope : 1:10 Bay : up to 9 M



#### **LEAN TO:**

Span : 3 to 15 M Height : 3 to 12 M Slope : 1:10



#### T-CANOPY (CS):

Span : 4-6 M Height : 3 M Slope : 1:10

## FASTENERS & OTHER STEELED **ACCESSORIES**









Foundation Bolts

Hex Head Self Drilling Screw

**Anchor Fasteners** 







**Fasteners** 

Studs For Deck Sheets

**Rod Bracings** 

## ALL TYPES OF ROLLING SHUTTERS

- 1. Regular pull push rolling shutters
- 2. Geared operate rolling shutters
- 3. Motorized rolling shutters
- 4. Remote rolling shutters
- 5. Aluminum rolling shutters
- 6. Insulated aluminum rolling shutter
- 7. Bright steel bar grill type rolling shutter
- 8. Stainless steel rolling shutter
- 9. Powder coated rolling shutter



Regular Pull Push Rolling Shutters





Geared Operate Rolling Shutters

Motorized Rolling Shutters

Remote Rolling Shutters

# CONVEYOR ACCESSORIES



Pulley



Bearings / Bearing Block



Motors / Gear box



Belt Feeder



Metal Detector



Magnetic Separator



**Belt Weighers** 



Impact Pad



Idler



Scrappers

Scrappers



Safety Switches

Safety Switches



All types of Conveyor belt

All types of Conveyor belt

## SEGMENTS WE COVER



Pre-Engineered Building





Warehouse
Factories, Workshops,
Logistics facilities,
Cold stores,
Cement plants.





**Aviation**Aircraft hangers,
Administration building, residential barracks, support facilities.





Commercial
Showrooms,
Distribution centers,
Supermarkets, Restaurants,
Offices, Service Stations,
Shopping centers.





**Recreational**Gymnasiums, Swimming
Pool enclosures, Indoor tennis





Agricultural
Poultry-Dairy Farms,
Greenhouses,
Grain storage,
Animal confinement.

# DECADES OF EXPERIENCE



Fabrication Division

- METAL FABRICATION WORKS - PRE-ENGINEERED BUILDINGS



#### **ONE STOP**

## FABRICATION SOLUTION





#### Mining Engineering Services SARL

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#### **Bhavin Makwana**

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#### Devesh Dewangan

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## Introducing

MAMBA – Roofing Sheets, a quality manufacturing brand under STEEL-CO, for the manufacturing of roof sheets and its accessories, to satisfy the needs of both, Industrial and commercial customers. We manufacture IBR profile roof sheets and Widespan profile roof sheets of Pre Painted Galvanized Iron Sheets – PPGI, Pre Painted Galvalume Sheets – PPGL and bare Galvalume sheets.

MAMBA - Roofing sheets, also manufactures the purlins required for the installation of roof sheets in "C" and "Z" sections.



### **RANGE OF MAMBA-ROOFING SHEETS**

Roofing & Cladding Sheets
PPGI, PPGL, Bare GI
Industrial IBR 686 Profile
Widespan Trapezoidal Profile
Widespan Trapezoidal Tiled Profile
Widespan Sinusoidal Corrugated Profile
Purlins

Galvanized Iron and Bare Mild-steel

C - Profile

Z - Profile

Accessories

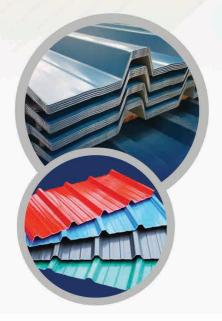
Top Ridges - Profiled / Plain type

Corner Flashings

**Eve Flashings** 

**Drain Gutters & Down Spouts** 

Readily Available Colors		
Fish Eagle White	Shadow Grey	
Sandstone Beige	Cottage Green	
Dave Grey	Traffic Blue	
Dark Dolphin	Toba Blue	
Charcoal Grey	Sky Blue	
Azure Blue	Basalt	
Traffic Green	Burnt Almond	
Kalhari Red	Aquamarine	





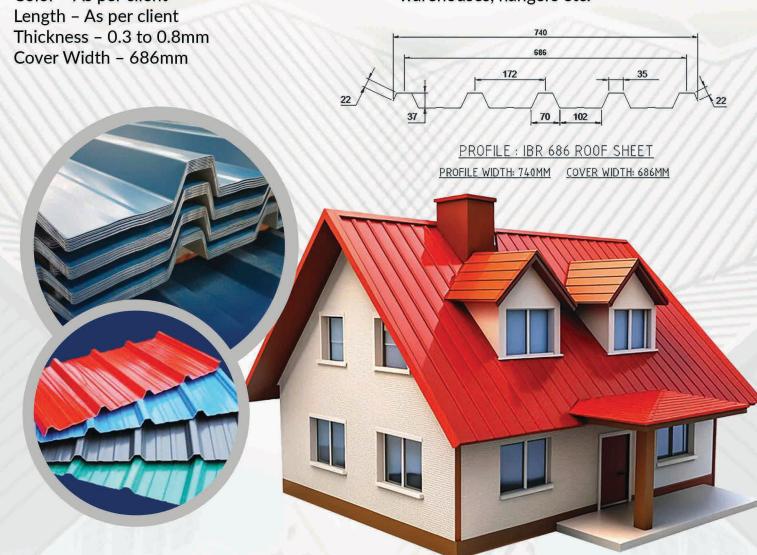


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Profile – IBR686 SA standard
Production Speed – 12 Mtr / Min
Production Capacity – 40MT / day
Material – PPGI and PPGL
Color – As per client
Length – As per client
Thickness – 0.3 to 0.8mm
Cover Width – 686mm

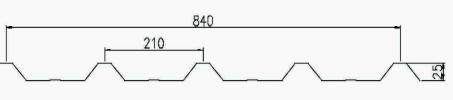
IBR 686 is an Industrial type profile for withstanding harsh environments and where high performance is expected. This profile is used in mines, industrial warehouses, hangers etc.



### **ROOF SHEETS - WIDESPAN TRAPEZOIDAL**

Widespan is an alternative cheaper solution for the commercial use. Due to its wider span it offers a larger coverage area making it a cheaper solution. This profile is used in small warehouses, houses, shops etc.

Profile – Widespan Trapezoidal
Production Speed – 12 Mtr / Min
Production Capacity – 40MT / day
Material – PPGI and PPGL
Color – As per client
Length – As per client
Thickness – 0.3 to 0.8mm
Cover Width – 840mm



WIDE SPAN TRAPEZOIDAL PROFILE ROOF SHEET

COVER WIDTH: 840MM

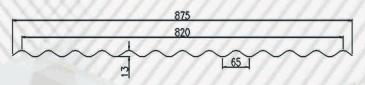




## **ROOF SHEETS - SINUSOIDAL CORRUGATED**

Sinusoidal corrugated is also a type of widespan and an alternative cheaper solution for the commercial use. Due to its wider span it offers a larger coverage area making it a cheaper solution. This profile is used in small warehouses, houses, shops etc

Profile – Sinusoidal Corrugated
Production Speed – 12 Mtr / Min
Production Capacity – 40MT / day
Material – PPGI and PPGL
Color – As per client
Length – As per client
Thickness – 0.3 to 0.8mm
Cover Width – 820mm



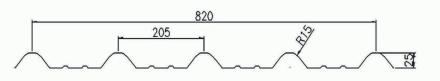
CORRUGATED PROFILE ROOF SHEET
PROFILE WIDTH: 875MM COVER WIDTH: 820MM



## **ROOF SHEETS - TRAPEZOIDALTILED**

Trapezoidal tiled is also a type of widespan and an alternative cheaper solution for the commercial use. Due to its wider span it offers a larger coverage area making it cheaper solution. This profile is mainly used for the house roofing because of its good aesthetic looks.

Profile – Trapezoidal Tiled
Production Speed – 05 Mtr / Min
Production Capacity – 15MT / day
Material – PPGI and PPGL
Color – As per client
Length – As per client
Thickness – 0.3 to 0.8mm
Cover Width – 820mm



TRAPEZOIDAL TILE PROFILE ROOF SHEET

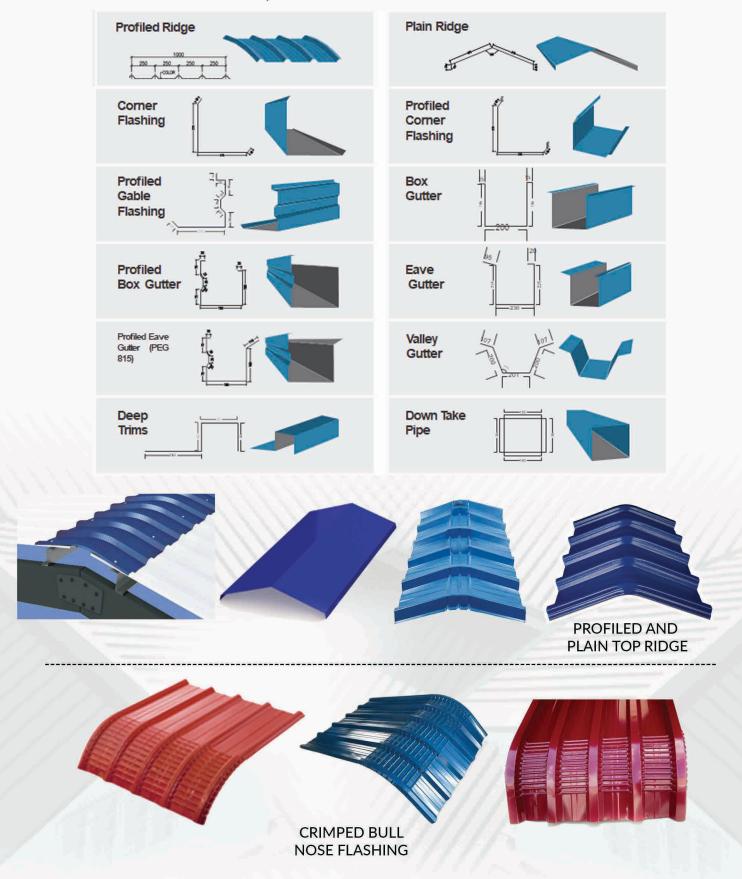
COVER WIDTH: 820MM







## TOP RIDGES, FLASHINGS AND GUTTERS





## PURLINS - "C" & "Z" TYPE

Profile – C & Z type
Production Speed – 06 Mtr / Min
Production Capacity – 30MT / day
Material – GI & Bare MS
Length – As per client
Size – Depth 100mm to 300mm
Thickness – 1 to 3mm





We have the capacity to manufacture the pre punch slotted purlins as per the client's drawings and requirements.





## **SUPPLY ACCESSORIES**

To give a ONE STOP SOLUTION, mamba roofing sheets supplies other accessories required to complete the roofing solutions



POLYCARBONATE SHEETS (PROFILED)



TURBO VENTS (SS, ALUMINIUM)



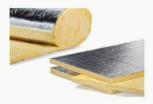
POLYCARBONATE BASE



**METAL LOUVERS** 



POLYCARBONATE LOUVERS



GLASS WOOL INSULATION



AIR BUBBLE INSULATION



ROCKWOOL INSULATION



HEX HEAD SELF DRILLING SCREW

## Mining Engineering Services SARL

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#### Devesh Dewangan

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At MES concrete, our focus has always been on providing best quality Ready Mix Concrete products at the door step of the client at affordable price. Operating from centrally located area at Kamoa and Kolwezi (KCC Mining, Musompo village) & Lubumbashi (Route Likasi; Kipushi-Kico Mining) in DRC, we can meet all your project requirements in time. Our vast experience and expertise in the construction industry makes it easier for us to understand client's requirements precisely. We are well equipped to handle big ticket industrial, commercial and infrastructure projects.



## **THE MES ADVANTAGES**



Unrivalled expertise in the Ready-Mix Concrete Industry



State of the art laboratory facilities to test the raw materials and the finish product.



Excellent end to end customer support services during all the stages of project execution.



Sourcing of raw materials without compromising the quality standards.



Highly skilled and well-trained technical team for executing large projects.



Maintaining high standards of Health, Safety and Environmental compliances at all plants and work locations.



Adopting best in class industrial practices and technologies to ensure speed, precision and efficiency in termes of cost-effective project delivery.



#### **OUR GOAL IS:** To provide:

- Superior quality Ready-Mix Concrete solution in DRC at right time & right
- We make your construction foundation stronger forever.



#### **OUR MISSION IS:**

To build your dream project by offering:

- Reduction in overall project cost
  Faster turn around time (TAT)
- On time delivery at client's site/location



#### **KEY FEATURES:**

- High-quality concrete mixtures designed to meet specific project requirements.
- Consistent quality control measures to ensure precision and reliability.
- Flexible delivery schedules to accommodate client's project timelines.
- Competitive pricing without compromising on quality.



#### CAPACITY OF RMC:

Lubumbashi, Kipushi, KCC, and Kamoa - M30 (30cum/hrs) Kolwezi-M1 (56.00 Cum/hr)

Transit Mixture - 7cum, 15 Nos.

Stationary concrete pump - 05 Nos

Boom Placer - M35



#### SERVICES:

- Ready Mix Concrete (RMC) supply for commercial, residential and infrastructure projects.
- Customized concrete mixes for specific applications.
- Technical support and consultation for optimal concrete usage.

## **Quality** Control



Improved Safety



Reduced Risk Liability



Increased Customer Loyalty



Customer Referrals



Repeat Business



Improved Market Position





## MES special concrete grades

SR. Nº	Type of Category RMC	Brand Name	Uses/Advantages	Uses/Advantages
01.	High-grade Concrete	SkyCrete	<ul> <li>Enhances in reducing dimension of columns, and beams</li> <li>Reduces dead loads considerably</li> <li>Increases floor space as well as economically beneficial to builders</li> </ul>	<ul> <li>Mainly for structural components like columns, beams, shear walls, foundation etc.</li> <li>Also, for girders in railway works, bridges, precast concrete segments etc.</li> </ul>
02.	Color Concrete	AsthetiCrete	<ul> <li>Provides an attractive look whilst maintaining concrete properties</li> <li>Increase durability compared to conventional flooring systems</li> </ul>	<ul> <li>Anywhere (pathways, driveways, basements, landscaping areas, flooring surfaces, VDF applications etc.)</li> </ul>
03.	Stamp Concrete	CraftCrete	<ul> <li>Boasts of an impressive look whilst maintaining concrete properties</li> <li>Available in different surface textures with different color shades as per choice.</li> </ul>	<ul> <li>Anywhere (pathways, driveways, basements, landscaping areas, flooring surfaces, VDF applications etc.)</li> </ul>

# OUR PRODUCTS SPECTRUM



## **NON-STRUCTURAL**

M5, M7.5, M10, M15 grades of concrete.

## **STRUCTURAL**

M20, M25, M30, M35, M40, M45, M50 & M75 grades of concrete.

## **SPECIAL CONCRETE GRADES**

- SkyCrete
- AsthetiCrete
- CraftCrete













#### **Head Office & Works:**

794, Deviation Route Likasi Lubumbashi, C / Annexe D,R, Congo



#### Regional Office / Kolwezi:

175 Avenue du 30 Juin, Quartier Mutoshi, en diagonal du bâtiment MCC.

#### Get in touch with us:



+243 900 333 365

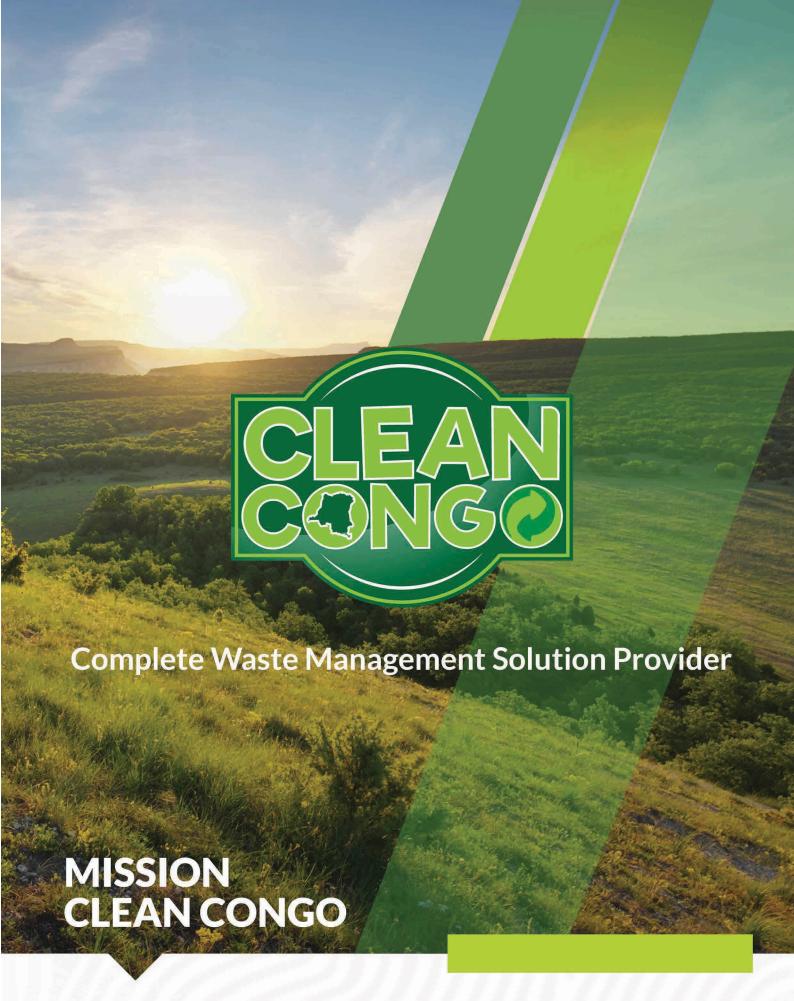
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A Waste Recycling Initiative... towards Resource & Health





Clean Congo SAS was established in the year 2018 with an objective of providing integrated, innovative & sustainable waste management solutions in solid (both biodegradable & non-biodegradable) waste and liquid (both industrial wastewater & domestic grey water/sewage) waste to industry & community.



To maximize resource value of waste & thus minimize & eliminate environmental impact so that both our economy & environment can prosper.

To always follow waste recycling principles of '5R', i.e., Rethink, Reduce, Recycle, Reuse & Recover which in turn will align with the sustainable development goals (SDGs) of waste to resource & health.

To give strong technical guidance.

To provide topmost quality & accelerated service.



## Our Vision

To become a world class solution provider & preferred partner in the field of waste management by 2030



## Our Values

- Demonstrate passion towards waste management.
- Conduct & provide education, capacity building, training programs related to the waste management.
- Create 'Environment Managers' for tomorrow.
- Ensure environment protection in all forms.
- Work with complete impartiality, secure & transparent transactions & accessibility to all the stake holders.
- Robust feedback, grievance & problem-solving mechanism.
- Continual improvement.



## **Our Value Proposition**



Prevent any kind of waste going into the landfills



Substantial reduction of greenhouse gas (GHG) emissions & lower carbon footprints.



Produce clean electricity



Wastewater treatment & reuse will significantly reduce the amount waste released into our water bodies.



Prevent global warming



Creation of additional sustainable employment



Create new products



Production of by-products like activated carbon, biochar, biofuels



Encourages a sustainable & healthy lifestyle among people by reducing no. of diseases.





The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity.

Countries have committed to prioritize progress for those who're furthest behind. The SDGs are designed to end poverty, hunger, AIDS, and discrimination against women and girls.

The creativity, knowhow, technology and financial resources from all of society is necessary to achieve the SDGs in every context

The 17 SDGs are integrated—they recognize that action in one area will affect outcomes in others, and that development must balance social, economic and environmental sustainability

Waste Recycling Initiative by Clean Congo will also lead to Sustainable Development Goals (SDGs) aligning with the global mission of Waste to Health. We are focusing on achieving the following 12 SDGs:



(Image source: United Nations Website)





Free consultancy services for waste management. To hand hold our client to manage all types of wastes.





Complete design, Engineering, Procurement and Construction management of waste recycling plants. Few examples include:

- Setting up of water treatment plant
- Used oil recycling plant
- ETP & STP facilities HDPE recycling facility Plastic recycling unit

- Any other waste recycling facility



We will either bring the wastes for recycling/management to the centralized facilities of Clean Congo, OR we'll set up waste management facility at your premises for certain categories of waste



## Benefits to our client for partnering with clean Congo

In addition to contributing to cleaning environment and contributing to socio-economic development of surrounding community and D. R. Congo, joining Mission Clean Congo will bring following benefits to its client:





#### **INPUT PRODUCT**

From any Mining Company/ other Clients

- ➤ Used / Waste oil
- ➤ Used / Waste Tyres
- ➤ Industrial Liquid (Water) Waste
- ➤ Scrap Metal & Equipment
- Hazardous Waste/Used Lead Acid, Batteries, Scrap Anode Plates, lead etc.
- Scrap Plastic Bottles & Pipes (PET, HDPE, LDPE, etc)
- Cable Scrap Motors, Transformers, Generators

### Step 02



#### **ACTION**

#### By Clean Congo

- Free survey of waste at KCC premise by CC experts
- Free waste collection from doorstep
- ➤ Logistics management
- Environment friendly recycleprocessing/ Treatment/ Disposal followings 5R's



#### Step 03



#### **COUNTER-OFFERING**

By Clean Congo & Associate Companies

- Recycled Oil (MGO) at highly discounted rates as a replacement fuel for furnace, dryers saving huge fuel costs
- New Tyres at discount
- Offering Treated Water by installing Treatment Plant for use in various applications e.g.,Gardering and irrigation,Toilets, Cleaning, washing, Dust/Fly Ash Sprinkler, Cooling, Construction work, etc.
- ➤ TMT bars at discount
- New Batteries, Anodes, at discount
- Drinking water, Soft Drinks at door
- HDPE Pipes at discount
- Copper and Alu Wires and Cables, Conductors, Transformers, Generators at a training of the company of the company
- ➤ Carbon black
- Executing Turnkey EPCM motors





## **Types of Wastes**

In the Industry sector we have millions of various factories, mills, mining plants, etc. around the world. These industries use raw materials to produce finished goods for consumers. But in the manufacturing process, there are materials which are rendered as waste.

Similarly, in the Domestic/Community sector we have mainly organic/biodegradable waste & other non-biodegradable waste.

#### Solid waste:

#### Biodegradable: mainly from:

- Food processing industries
- Dairy
- Slaughter houses
- Industrial canteens
- Household kitchens





#### Non-Biodegradable:

- Dirt & gravel
- Masonry & concrete
- Scrap metal
- Waste/Used oil
- Solvents, chemicals, drugs
- Plastics
- Fly ash
- Synthetic fibres, gypsum, silver foil
- Glass objects
- Used tires
- Dyes
- Packaging materials
- Radioactive waste
- Batteries
- Bio medical waste



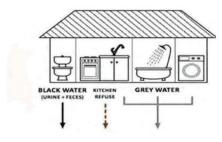






#### Liquid Waste:

Various process/production wastewater streams having different characteristics depending on the type of industry. Domestic waste/effluent stream (grey water OR sewage) from the toilets, urinals, wash basins & residential colonies.







## Our Credentials: Working in Recycling Projects since 2018



## Our Credentials Working in Recycling Projects since 2018

## Waste Oil Treatment Plant In Lubumbashi - DRC for a Reputed Client

- Used/Waste Oil can be hazardous to both humans and the natural environment. When oil enters the soil or bodies of water, it harms plants, animals, and humans by contaminating groundwater and, as a result, destroying natural habitats and compromising the safety of drinking water.
- Used motor oil can be re-refined into lubricating oils or other useful products that meet the same quality norms as new or virgin motor oil
- Clean fuel can be burnt in furnaces for heat or in power plants to generate electricity recovered Fuel Oil can be used in a blend for high-speed diesel engines, or without blending in medium speed gensets
- It can also be burnt as clean fuel to generate thermal energy "1 gallon of Used Motor Oil if reprocessed and burnt as fuel will generate enough electricity to power everything in your home for a day".

## Input Material Used Oil













Output Material 

Medium Grade Furnace Oil



## Our Credentials: Working in Recycling Projects since 2018



## Plastic recycling

- Plastic recycling is the method of gathering waste plastic and reconverting them to new and useful plastic products. The world produces and makes use of more than a trillion pounds of plastic material. Plastic recycling ensures that this massive amount of plastic does not go to waste. Instead, you can reprocess the materials to get other products.
- Most of the plastic we come across in our daily life are recyclable. Some of the most common plastic types that we can recycle are PET, PVC, HDPE & LDPE.

## Input Material HDPE Scrap







### The facility in Lubumbashi

- The waste HDPE material is processed and turned back into various other forms of construction products or packaging items.
- We can recycle most types of HDPE pipe regardless of the color and offer various options for storage and collection.
- Collection Options:
- We can provide 20/40 feet containers
- For waste management & collection sites, we can provide walking floor trailers for the collection of this material.
- Smaller and more flexible pieces of HDPE pipe and can be baled before onwards transportation







Output Material
PE Granules For
Making Plastics Items



## Our Credentials: Working in Recycling Projects since 2018



Disposal of metal scrap is a big challenge to all the industries. But not anymore, to overcome this challenge 'SOTRAFER' is into business of metal scrap recycling. Clean Congo has provided consultancy services and turnkey project execution services for expansion project of Sotrafer in 2021-2022.

All the waste metal scrap is converted into high grade TMT steel rebars which are used in the civil construction industry













## Waste Batteries - Waste Anode Plates & Lead Scrap Recycling Plant in Lubumbashi for Anodos Africa

## Waste Batteries, Waste Anode Plates, Lead Scrap Recycling:

- Lead Battery Scrap is a hazardous waste and unsafe disposal creates environmental/health problems.
- Careful recycling is essential, beneficial & cost effective in comparison to its safe disposal cost.
- Secondary Production of Lead (Recycling) from Scrap results in less solid wastes, uses less energy & reduces the consumption of minerals resources compared to the lead production from the ores.
- Short term Lead exposure of high doses can result in serious illness.

Long term over exposure can cause numerous health problems and can also prove fatal

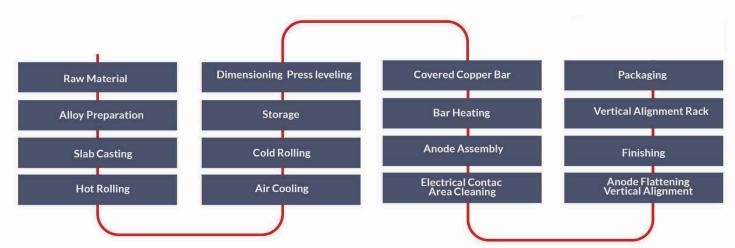
Battery recycling is a recycling activity that aims to reduce the number of batteries being disposed as municipal solid waste.

The different types of batteries that we use for recycling process are:

- PP (Polypropylene Batteries)
- HR (High Resistance Batteries)
- Automobile Batteries
- Tower Batteries











- Tyres have a certain life span. When they become old, worn out, and irreparable, we often dump them in landfills, which can release harmful gases. Unfortunately, this leads to serious environmental issues.
- Every year, over one billion scrap Tyres get generated. And the only way to get things done the right way is through recycling. Tyres recycling involves the conversion of waste Tyres into materials that we can use to create new products, provide employment and revenues for the government, prevent diseases and environmental pollution, and eliminate other dangers.

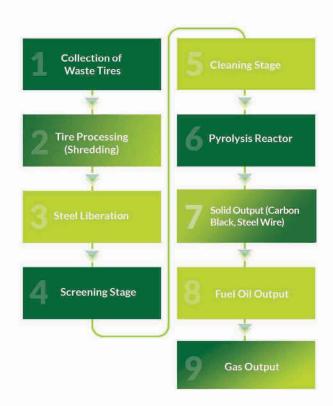
- It will create new products for e.g., fuel, which is much more efficient than fuel derived from coal & other products like rubberized asphalt, playground turf, railroad ties, nylon etc.
- Apart from the fuel, scrap Tyres still have other significant uses for e.g.,
- As construction materials in building a home, as embankments, for bridge abutments, as barriers to reduce the collision impact, to reduce the sound between residence & roadways.
- In apparel products for making of sandals/shoes, flexible nets & other applications such as, for road landside repairs, for paving, can be moulded into various products.

Therefore, Clean Congo has chosen the recycling way!



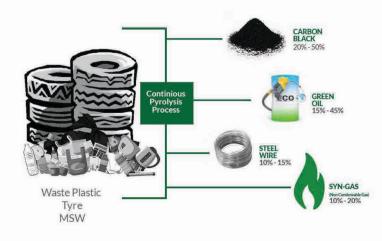


## Step by Step process of Tire Recycling:



## What is Pyrolysis?

It's an ancient technique of breaking waste hydrocarbons & Wood into elemental hydrocarbons by indirect heating in the absence of Oxygen (Air). Pyrolysis of waste Rubber/Plastic/ MSW gives following 4 products:



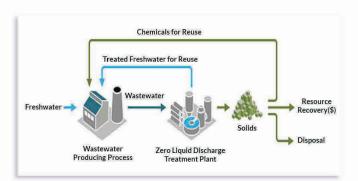




## Industrial Wastewater Treatment Projects with Recycle, Reuse & Zero Liquid Discharge (ZLD) Options

Industrial Wastewater Treatment is a process used to treat various types of wastewaters generated during production processes of different types of industries. After treatment the effluent maybe recycled/reused in the process itself OR for low end applications within the factory OR discharged into the sewer drains/surface waters.

While discharge of treated effluent into the drains /water bodies it is of prime importance that the effluent quality meets the govt. regulations/pollution control board discharge norms. Some industries have been successful at redesigning their manufacturing processes to reduce or eliminate pollutants.



### Domestic Grey Water & Sewage Treatment Projects

Greywater, or Sullage, is commonly defined as wastewater generated from domestic activities such as laundry, dishwashing and bathing which can be recycled & reused on-site for low end applications.

Sewage or Black Water is commonly defined as wastewater generated from toilets, it could be combined with other domestic activities such as urinals, laundry, dishwashing, and bathing which can be recycled & reused on-site for low end applications after treatment.

#### Applications:

- Urban/Rural areas including communities, industries & office buildings for;
- Irrigation and agriculture
- Gardening

- Toilet flushing
- Floor cleaning
- Car washing
- Construction water,
- Dust/Fly ash sprinkling /cooling.
- Cooling water make-up

Treatment processes include brine treatment, solids removal (e.g., chemical precipitation, filtration), oils and grease removal, removal of biodegradable organics, removal of other organics, removal of acids and alkalis, and removal of toxic materials.

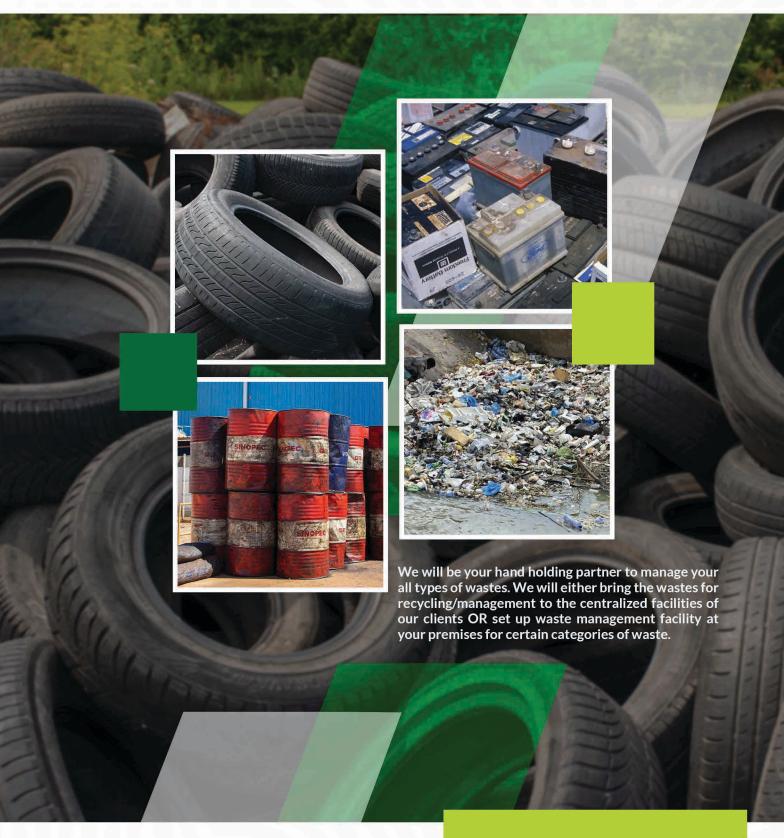














#### **Clean Congo SAS**

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794, Deviation Route Likasi, Commune Annexe, Lubumbashi, Haut-katanga, DRC

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## Introduction

### Overview:

Automotive battery components, which include lead, plastic and sulphuric acid are harmful to our environment if they are not properly treated. Fortunately, most of the components of these batteries are well suited to recycling.

- Batteries contain a number of heavy metals and toxic chemicals and disposing of them by the same process as regular household waste has raised concerns over soil contamination and water pollution.
- Battery recycling is a recycling activity that aims to reduce the number of batteries being disposed as municipal solid waste.

## Why Battery Recycling Matters:

- Protects the Environment: Prevents toxic chemicals from contaminating soil and water.
- •Conserves Resources: Recycles valuable materials like lithium and lead, reducing the need for mining.
- •Reduces Landfill Waste: Keeps millions of used batteries out of landfills, minimizing hazardous waste.
- Saves Energy: Requires less energy than extracting and processing new materials.
- •Ensures Supply: Helps secure essential materials for future battery production, especially as demand rises.
- •Supports Sustainability: Contributes to a circular economy, reducing environmental impact and promoting responsible manufacturing.

promoting responsible manufacturing.

# Recovered Materials and Their Uses

- •Lead: Recovered from lead-acid batteries, it is reused in the production of new batteries, particularly for automotive and industrial purposes.
- •Lithium: Extracted from lithium-ion batteries, lithium is used to manufacture new batteries for electric vehicles, portable electronics, and renewable energy storage.
- Nickel: Reclaimed from nickel-cadmium (NiCd) and nickel-metal hydride (NiMH) batteries, nickel is used in stainless steel production and new battery manufacturing.
- •Cobalt: Extracted from lithium-ion batteries, cobalt is essential for making new rechargeable batteries, especially for electric vehicles and electronic devices.
- Plastic: The casing of batteries is often made from plastic, which can be recycled and repurposed for new battery casings or other plastic products.
- •Steel and Other Metals: Recycled metals like steel from battery casings are reused in construction, manufacturing, and various industrial applications.

# The different types of batteries that we use for recycling process are:

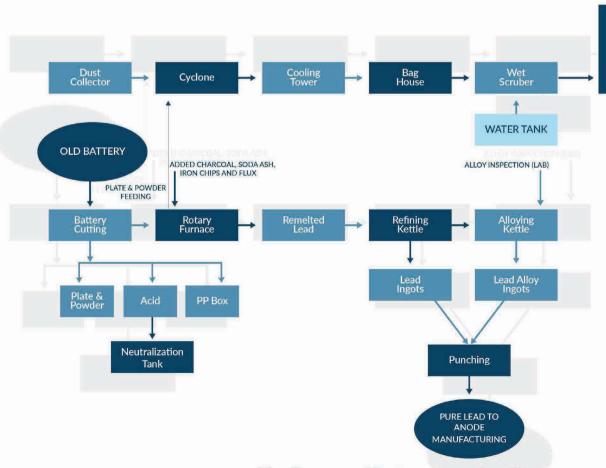
PP (Polypropylene Batteries)

HR (High Resistance batteries)

**Automobile batteries** 

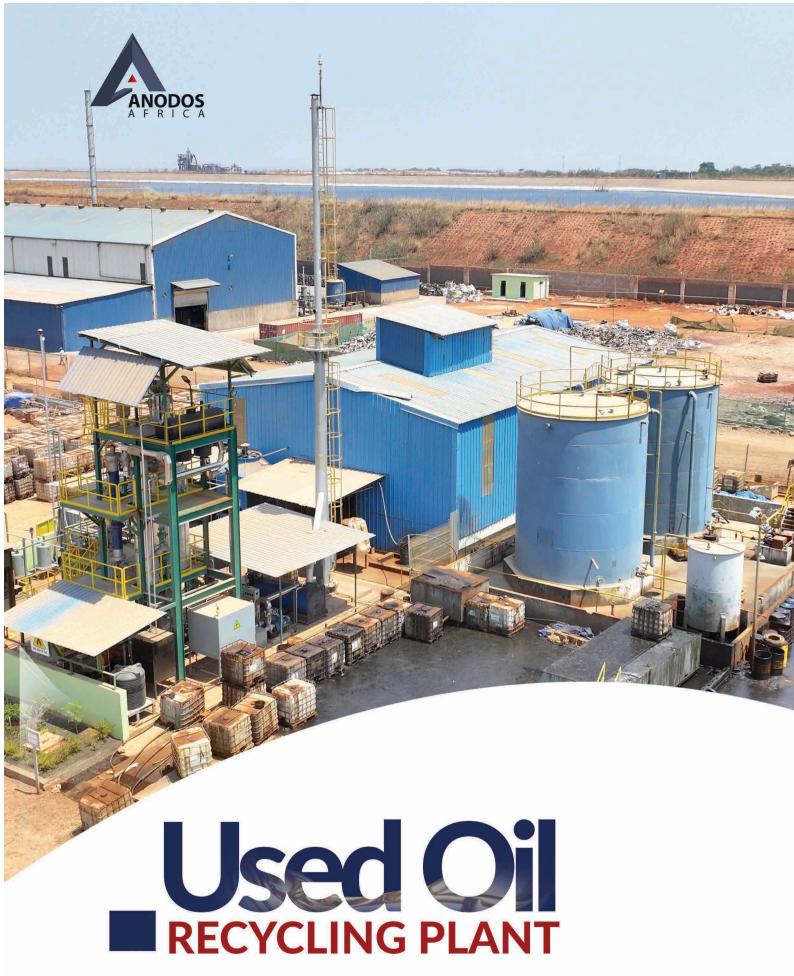
**Tower Batteries** 

## **Battery Recycling Process**



The Process of Battery Recycling Plant





Sustainable Solutions for Waste Oil Management

## Overview



Waste oil or contaminated oil, which is produced by different industries, can be processed in a treatment plant to generate re-refined oil. This oil can serve as a substitute for diesel fuel. The plant has a capacity to generate up to 15,000, m3 per annum by utilizing various disposable oils produced by the industries.

## 2

## **Mission Statement**

"Our mission is to transform waste oil into reusable resources, contributing to environmental protection and sustainability."





## **Importance**

Notably, the advantages of recycling oil are numerous. Firstly, recycling oil prevents it from contaminating the soil and water.

Secondly, used oil does not wear out; it only becomes dirty. Thus, recycling it represents a sustainable means of preserving a valuable resource.

Thirdly, the process of producing re-refined oil requires less energy than that required to produce crude oil. Additionally, the re-refined oil contains fewer Sulphur compounds, which makes it less harmful to the environment.





- To protest the environment from the hazardous waste
- To utilize the waste into useful product.
- Generate direct and indirect employment.
- To reduce the dependency on diesel for the production which is coming from outside the country.

## (\$)

## How does it Work?

- They are filtered to remove impurities
- These are partially distilled in columns to recover the water, lites and diesel/kero fractions
- The heavier components are distilled under high vacuum in thin film evaporator(s) to recover the lube fraction, leaving the evaporator bottoms with the solids as an asphalt extender
- Complete system is maintained at various levels of vacuum, as required by the process
- Hot oil (thermic fluid) is used for the heating, water for the cooling & dry compressed air for the pneumatic instruments
- Operated from a centralized control panel or can be hooked on to a PLC





## What is Recovered?



- Filtered used oil has small quantities of water and solids that must be separated. All of these processes attempt to do that & in the recover useful ingredients.
- The useful ingredients are Lite fuels, base lube & a heavy fraction (residual) that contains the solids





## **Advantages**

- Proven technology
- Operable over a wide range of capacities
- Viable over a wide range of capacities
- Accepts a wide range of feedstocks
- High yield recovers all the components
- Low operating costs
- Ease of operation







## **Step-by-Step Process**



Collection of used oil

Pre-treatment of oil

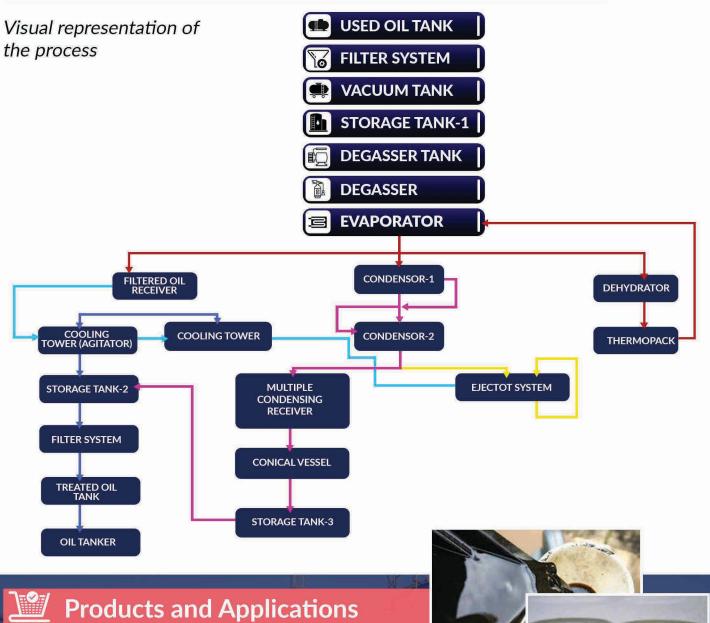
Refining and purification process

Testing and quality control

Final product packaging



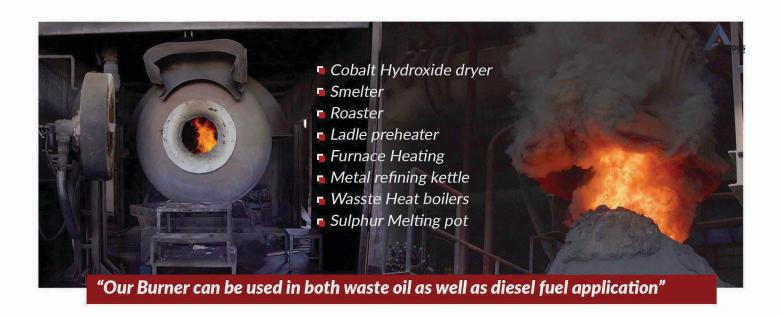
## Diagrams/Flowcharts



**Types of Recycled Products:** List of products obtained from recycled oil (e.g., lubricants, fuel oil, etc.)

**Applications:** 

Industries or sectors that can benefit from these products.





## Add on facilities

Collection of oil from a client including loading into truck ot tanker

Transferring a refined oil to end destination by own dedicated tankers.

Manufacturing a under ground and above ground tanks (<60m3) to storage the oil.

Retrofitting a existing burner with new which is compatible used for both Diesel & treated oil Installation and dismantling work.

Design and installation of fire hydrant, foam & water suppression system for the fuel tanks.

Supply & installation of entire piping network

Suplly & installation of accessories used for the burner



## **Quality Assurance**









## PLASTIC RECYCLING

At present the plant contains 3 recycling lines to handle plastic scraps. We recycle the following types of plastic scraps:







Line1 Line2 Line3

## Services we Offer 🕸



Free consultancy services for waste management. To hand hold our client to manage all types of wastes.



Complete survey of waste at client's designated place and proposal for handling such waste based on their types.

A Complete Waste Management Solution



Complete design, Engineering, Procurement and Construction management of waste recycling plants. Few examples include:

- Setting up of water treatment plant
- Used oil Recycling plant
- ETP & STP facilities
- HDPE recycling facility
- Plastic recycling unit
- Tyre recycling unit
- Paper waste recycling unit
- -Kitchen
- waste/Bio-degradable waste recycling unit
- Any other waste recycling facility

## Plastic Scraps Collection

We can provide 20/40 feet containers and transportation means For waste management and collection sites, we can provide walking floor trailers for the collection of materials

Smaller and more flexible pieces of HDPE can be baled before onwards transportation

We support the supplier of the plastic scraps and provide the best market rate



HDPE scraps including pipes and fittings which are used extensively in industries

PP Poly Propylene scraps including Battery plastics & plastic chairs etc.





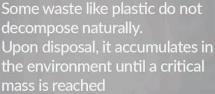
## **Environmental Impacts**

Industries around the world including mining industries use various types of raw materials but in the manufacturing process, some materials are rendered as waste.

natural resource

Mining Engineering Services is bringing a positive impact in the communities it is working with by collecting and recycling waste plastic.

MES is also involved in recycling Used Oil and waste batteries focusing on the reduction of waste, conserving natural resources, and mitigating environmental harm.





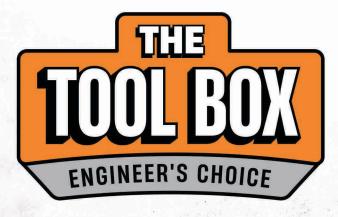
Benefits of collaborating with us

- Reduced waste disposal costs including taxes
- Recycled oil (MGO) at highly discounted rate to be used as fuel replacement in furnaces and driers, saving huge fuel costs
- New batteries, tires, anodes at discount
- Offering treated water by installing Treatment Plant for use in various applications e.g. Gardening & Irrigation, Toilet, Cleaning etc.
- HDPE pipes at discount



# WITH THE TOOLBOX

Your Trusted Partner for World-Top Industry Tools.







Lincoln Automatic Lubrication System and Accessories





Grease Gun



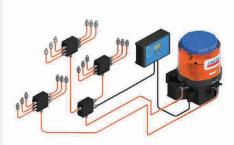
Lubrication Reservoir & Accessories



Lubrication system



Single Line Librication System



Progressive Librication System



Lubrication System Accessories



Oil Suction Pump



Lubrication Trolley Package



Hose Reels



## SKF Rolling Bearings and Power Transmission Products





Cylindrical Roller Bearing



Tapered Roller Bearing



Spherical Roller Bearing



Pulleys and Taper Bush



Y-Bearing



Deep Groove Ball Bearing



V-Belts and Chains



Split Bearing



Plummer Blocks and Accessories



## SKF Maintenance Products- Extending the bearing life cycle







Bearing Puller

Bearing Dismounting Kit

Bearing Portable Heater



**Quick Collect Sensor** 



Alignment and Balancing Smart Tool



Bearing Mounting Kit



Hydraulic Pump and Infrared Thermometer



SKF Multipurpose Grease



System - 24





## **Structural Steel**





SquareTube



**IPE Section** 



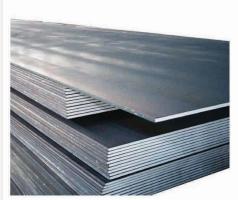
Lip Channel



**Round Tube** 



Rebar



Mild Steel Plate



Checker Plate



Flat Bar



Rolled Steel

## Nut Bolts Stud and All Type of Fasteners





Hexagonal Nut Bolt



Washer



Lock Nut



Eye Nut a Bolt



Foundation Bolt



**Anchor Bolts** 









#### **POWER TOOLS**

**EC Brushless Motor Range** Longer runtime, Longer lifetime









Cordless Drill Driver GSR 18 V.EC (Solo)\*\*



Cordless Impact Drill GSB 18 V-EC (Solo)\*\*



Cordless Impact Wrench / Driver GDX 18 V.FC



Cordless Multi-Cutter GOP 18 V-EC (Solo)\*\*



Cordless Sabre Saw GSA 18 V-32 (Solo)\*\*



Cordless Rotary Hammer GBH 18 V-26 (Solor)\*\*



Cordless Rotary Hammer GBH 36 V-EC Compact



Cordless Multi-Cutter GOP 12 V-28 (Solo)\*\*



Cordless Angle Grinder GWS 12-76 v-EC (Solo)\*\*





## Welding Tools and Consumables











Welding Machine

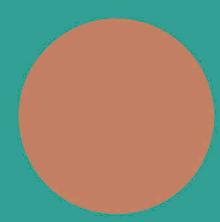


Welding Consumables



Welding Safety Equipments







#### Personal Protective Equipment





Earplug



Helmet



Glasses



Hand Gloves



Mask



Gumboots



Shoes



Reflector



Safety Suit



#### Schwing Stetter Product





Mixer with Slave Engine Drive



Mixer with PTO Drive



Mixer mounted on trailers



Compact Batching Plants



Placing Belt



Motor Grader



Self Loading Mixer



Shotcrete Pump



Stationary Pump





Abrasive & Non Abrasive









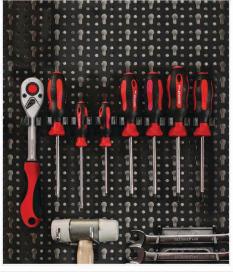




#### **Hand Tools**





















#### Lifting Tools & Tackles





Shank Hook



**Bow Shakles** 



Wire Rope Pulley



Chain Hoist



Chain Pulley Block



Three Phase Electric Trolley



Beam Clamps



**Endless Wire Rope Sling** 



Webbing Sling



#### Electrical Equipment





Cable



Industrial Electric Plug



Insulator



Line Hardware



Miniature Circuit Breaker



Multimeter



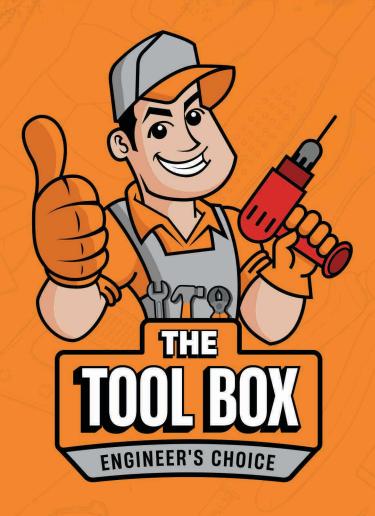
Panel



Transformer



**Electrical Tools** 



#### Kolwezi Showroom

No-7956, Route Likasi Q/ Jolie Site, Commune Manika, Kolwezi. D.R. Congo

- +243 906 462 069
- +243 808 398 227

#### **Lubumbashi Showroom**

6612, Route Likasi, Nr. Mexco/Rulco Lubumbashi. D.R. Congo

- +243 999 977 486
- +243 906 828 185
- +243 808 398 147

#### **Likasi Showroom**

115, Route Lubumbashi Quartier Kitabataba Commune de likasi Enface Park ya toyota.

- +243 906 535 364
- +243 854 550 998

E: info@thetoolboxsas.com

M: +243 999 997 486 | +243 906 828 185 | +243 808 398 147

#### **Great Industrial Solution Provider**



























## MES SPECIALLTY SERVICES



#### **Specialty Services**

#### Manpower:

Skilled manpower supply for long term or short term projects or maintenance/operations contracts (Engineers, Planners, Quality Inspector, Design, Document Controllers, Skilled Labor.)

#### **Engineering Services:**

PLC Programming & SCADA Screen Development, Plant Automation & upgradation, Expertise in DCS System. Relay co-ordination, Sub-Station design for MV, HT & EHT lines, Design & supply of Electrical panels for HT, LT & PLC Systems. MV & HT Cable terminations, Earthing design & study, Plant lighting design as per international standards, Tray routing, Power factor analysis & improvements, Energy audit, As-built drawings etc.

#### **Annual Shut Down:**

Sulphuric Acid and Hydro Metallurgical Plants Maintenance & Repair Services: Pumps, Gearboxes, Rotating equipment's, Motor overhauling and rewinding, Replacement of Ball Mill Liners, Epoxy Lining and Screeding, Anti Acid Brick Lining, Epoxy Painting etc.

#### Maintenance & Repair Services:

HT& EHT Sub-stations, PLC & DCS System, SF6 Breakers, Isolators, VCB, ACB, HT & LT Panels, Earthing system, Motor overhauling and rewinding, Power Transformers overhauling, Air Compressors, Plant lighting etc.

#### **Operation Services:**

Complete planning and execution of long term and short term plant and machine operations services for Crushing equipment, Dryers, SX EW, SAP, Mine Haulage, Drill and Blast





## Motor Re-Winding



















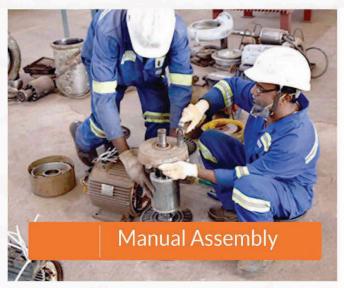




















**MINING ENGINEERING SERVICES** 

# RENTALS SALES & SERVICES | TENTALS





## MES HEMM Division Overview



Heavy Earth Moving Machinery (HEMM)



Since 2016 we have been offering the most diversified and competent equipment rental services. We have a wide range of modern equipment to suit every type of market.



For better service, we draw on our technical skills and industry experience.



Preferred supplier of equipment for projects, maintenance work and heavy lifting. The best people committed to safety and excellence in service



#### **Our Vision**

To be the leading lifting solutions service provider wherever we operate.

To Provide a level of service to the Mining Industry exceeding their expectation.
To create a passion among the Industries for our services.

#### **Our Mission**

To be honest, fair and responsible. To meet the commitment made to our customers to the best of our abilities.

Committed to serve customers to their full satisfaction

#### **Our values**

Integrity Innovation Quality Consciousness Sustainability Synergy with the Community

#### Health, Safety and Environment (HSE)

We recognize Health,
Safety and Environment as one
of our corporate responsibilities
/ priorities.

Our HSE program and practices are carefully prepared and implemented to ensure safety of the installation, cleanliness of ecosystem and health protection.

We are committed to achieving a high level of HSE performance with compliance to all local laws and regulations.



## Service Offering

Heavy Earth Moving Machinery (HEMM)



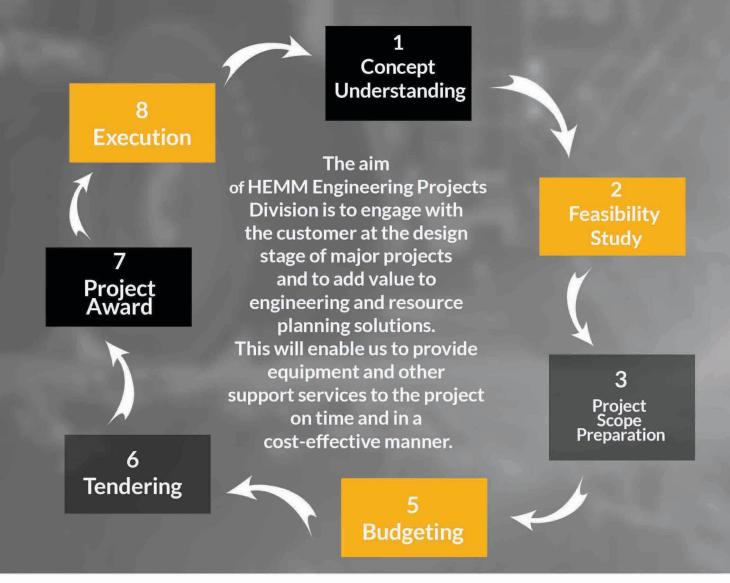
#### Machines up to 300 tonnes

We supply machines for small, medium and complex projects. All-terrain and truck-mounted machines are available in our fleet. We offer daily, weekly, monthly and long-term rental options. We also have project supply options.

#### **HEMM Engineering Projects.**

Heavy earth moving machinery (HEMM) division provides world class engineering services and heavy lifting solutions to its customers at optimum cost. With years of experience in the field, we have capability to serve any type and size of project.







## Our Capabilities

Heavy Earth Moving Machinery (HEMM)



#### MES Cranes 20T TO 650T

Model	Lifting capacity	Boom length
F20	20T (PICK N CARRY)	19.5 MTR
STC250	25T	41 MTR
STC500	50T	43.5 MTR
ZRT600	60T	45.6 MTR
ZTC1500	150T	60 MTR
QAY260	260T	70 MTR
QAY650A	650T	90 MTR - 142 MTR



#### **MES Platforms**

Model	Lifting capacity	Boom length
Cherry Picker Genie S-65XC	Diesel telescopic boom lift	21.81 MTR
Cherry Picker Genie Z-51/30J RT	Diesel articulated boom lift	17.59 MTR
SCISSOR Lift		11 MTR
SCISSOR Lift		12 MTR
TELEHANDLER	JCB Loadall 530-110 SE - 4T	7 MTR
TELEHANDLER	JCB Loadall 538-60 - 8T	7 MTR
BOOM TRUCKS	4T TO 14T	8MTR TO 22MTR







#### Mining Heavy Earth Moving Machinery

Model	Operating Weight	t Capacity
ADT DUMP TRUCK DUMP TRUCK Water Bowser Truck/Water Sprinkler Truck DIESEL BROWSER EXCAVATOR MOTOR GRADER SINGLE DRUM ROLLER WHEEL LOADER BACKHOE LOADER (TLB) BATCHING PLANT CP30 TRANSIT MIXTURE TRUCK MOUNTED BOOM PLACER CONCRETE PUMP SELF LOADING MIXER	40T TO 45T 30T TO 40T  10,000L TO 20,000L  1500L TO 20,000L  20T - 50T 16T - 20T 10T - 26T 5T - 12T - 30M³/Hr 8 M³ 24-36M	0.83 - 3.1 M³ 3660 - 4270MM - 2.0 - 5.0 M³ 0.6 - 1.5M³ -  OUTPUT - 48 - 160M³/H,PRESSURE - 6 - 13MPA 4.6M³





#### Mining Engineering Services SARL





#### Kolwezi Office:

No. 5701, Arret bus, Tabernacle, A cote de la station GK, Rte Likasi, Kolwezi, Lualaba, D.R. Congo

#### Regional office / Kolwezi:

No. 524, Avenue Industrial, Commune Manika, Kolwezi, Lualaba, D.R. Congo

#### M

Please send your enquiry to: Equipment.rental@messarl.com

#### **Head Office & Works:**

794, Deviation Route Likasi, Lubumbashi, D.R. Congo



Get in touch with us:



Mr.Dinesh Rabari E: dinesh.rabari@messarl.com P: +243 816 782 473 Mr.Divyakant Modi E: divyakant.modi@messarl.com P: +243 900 014 549







#### **About Us**

We are a **leading Power Solutions** Marketing and Service Company dedicated to providing comprehensive and innovative energy solutions to our clients. With a strong focus on reliability and sustainability, and customer satisfaction, we strive to meet the diverse power needs of various industries and organizations. Through our expertise, cutting-edge technology, and exceptional service, we aim to empower our clients and contribute to a greener and more efficient future

#### MISSION STATEMENT

Our mission is to be a trusted partner for our clients, offering them reliable, cost-effective, and sustainable power solutions that drive their success. We are committed to delivering innovative products, exceptional service, and expert advice to meet the evolving needs of the industry while reducing the environmental impact

#### **VISION STATEMENT**

be the leading provider of innovative reliable diesel and solutions, generator setting standard for excellence in sales and service, while ensuring customer contributing satisfaction and sustainable energy practice

#### **OUR EXPERTISE**

- Diesel Power Plants
- Gas Turbine Power Plants
- Hybrid Power Solutions
- Power Saving Technology
- PAAS (Power as a Service)



#### **Industries We Serve**

- Mining
- Industrial
- Healthcare
- Hospitality
- Manufacturing
- Data centers
- Residencial complexes

#### **Industries We Serve**

- Health Check Campaign of your existing Diesel Generators
- Repairs and Maintenance (AMC).
- Refurbishment of Diesel Generators.
   Installation and Commission
   of new Power Equipment.
- Rental/Leasing of Power Equipment





## The BEST Approach to Energy Management - SMARRT

**SMARRT Energy Management Solutions** 

In conjunction with offering Eniscope and a range of energy saving products, each BEST partner also follow a consistent, thorough approach to energy management to ensure the best results possible





#### Survey

We have developed IOS/Android app assist with delivering quick accurate on-site surveys.





#### Monitor

Using our proprietary monitoring system - Eniscope - we can accurately track energy usage (and wastage) over time. Second by second. Device by device.





#### **Analyse**

The data from Eniscope is sent up into the cloud, where our partners and clients can monitor it in real-time using our intuitive interface.





#### Reduction

With the benefit of itemised data, we can remotely isolate areas of wastage and take immediate low-cost action. In addition, we can introduce retrofit technologies to make even greater savings





#### Review

How well has the strategy worked? This stage is all about comprehensive reporting - we can show granular analysis of the energy management strategy to inform the future targeting process.





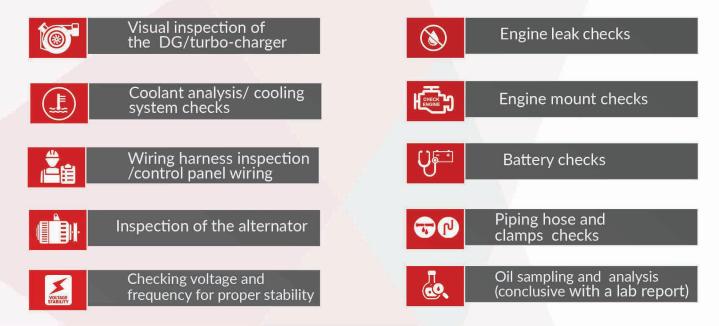
#### **Target**

The key to a successful investment in energy efficiency is sustained success. Our energy monitoring system stays in place, verifying success and identifying targets for change.



Detecting minor problems at an early stage can prevent them from becoming major repairs/downtime, and improve the affiance of your generator, which can lead to lower fuel consumption and reduced operating costs.

Our team of experienced professionals has a deep understanding of the energy industry and well-equipped to address the challenges faced by business today. We are committed to providing top-quality services and products that are tailored to the specific needs of each of our customers.



We would be delighted to have the opportunity to discuss our services in more detail with you and explore how we can support your business. Please do not hesitate to contact us if you have questions or would like to schedule a meeting.

Thank you for your continued support, and we look foward to serving you now and in the future.





## PREVENTIVE MAINTENANCE FOR YOUR DG:

- Health Check to forecast the issues before your engine breaks down.
- Service process will be implemented.
- Monitoring of your DG at regular intervals
- ISO-certified documentation.
- Planning your parts and consumables lowers your maintenance cost
- Assistance in the Repair / Replacement of parts or even with your old equipment buyback programme.
- Providing rental DG in case of emergencies.







- 02 Customized Solutions
- 03 \ Quality and Reliability
- O4 Commitment to Sustainability

- Lubumbashi:
  - +243 808 428 924
  - +243 812 032 589
  - **Kolwezi:** +243 896 423 161
- sales@congopowersolution.com
  - www.congopowersolution.com

794, Deviation Route Likasi, C/Annexe Lubumbashi, Haut-Katanga D.R. Congo



#### **MEDICAL** SERVICES



## Mining Engineering Services is part of Vinmart Group, having presence in DRC from last three decades.

Mining Engineering Services SARL (MES) was established in 2010 to supply various types of chemicals to mining companies and to support SOMIKA SARL for Project Management in Democratic Republic of the Congo (DRC) & across Africa Region.

MES has strong sourcing capabilities as our Group company's procurement cum logistics offices are located in different parts of the world – India, China, South Africa, Zambia, Tanzania, Dubai, Canada, etc.

Over the years, MES has become One Stop Solution for all major mining solutions including EPCM Projects Execution, Trading & Supplies with strong committed and motivated team in DRC & key geographies efficient Procurement and Logistics.

### Congo Care - One Stop Solution for better Healthcare Services & Medical Equipment Supplies

CONGO CARE has started dealing with Medical Equipment since 2018 in DRC. Apart from high end medical equipment, CONGO CARE also provides medical instruments with all required accessories and whole gamut of consumables required for smooth running of hospitals which include Surgical Laboratory.

- Planning, designing and construction of hospitals, clinics, diagnostic centers.
- Turn-key solutions for all kinds of healthcare set-ups.
- Supply, installation, training, after sale service and AMC of medical equipment, instrument & hospital furniture.
- Supply of accessories, consumables, spare parts, lab reagents and hospital disinfectants.
- Supply of manpower-medics, super specialist, generalist.
- Paramedics, nurses and medical technicians.
- Mobile healthcare solutions.
- Electronic health record software, mobile application.
- Hospital marketing material brochures, leaflets, files.



#### **Our Vision**

Our Vision is to become DRC's leading Healthcare Services & Medical Equipment Solution provider offering world class products and services at reasonable prices.



#### **Our Mission**

Our Mission is to establish long lasting relationships with all our clients by exceeding their expectations and gaining their trust through exceptional performance and adding value to the industry we serve.



#### **Our Values**

- Integrity
- Sustainability
- Synergy
- Innovation
- Quality

#### **Medical Equipment Supplies**



#### Hospital

- Clinical and General Hospital
- ICU-NICU-PICU
- Gynecology and Obstetrics
- Neonatal and Pediatric
- Operation Theater
- Modular Operation theater
- Dental
- Ophthalmology
- Physiotherapy
- Medical Gas Supply System
- Consumables
- Autopsy Table
- Cadaver Storage



- Semi Automatic
- Equipment's
- Fully Automatic
- Equipment's
- Reagents/Chemicals
- Consumables
- Furniture



Mobile X Ray – Numerical /

- Analogue
- Fixed X Ray Numerical / Analogue
- Echography machine -Colour Doplar 3D/4D
- OPG Scan
- Dexa Scan
- Mammography
- CT Scan
- MRI



- Mobile Clinics
- Mobile OT
- Ambulance
- Cardiac Ambulance



#### **IT Solutions**

- Electronic Medical Record System
- Nurse Call System
- Telemedicine [Consultation/ Radiology/Pathology]
- Mobile Healthcare Solutions



- Generalist
- Specialist/Super Specialist
- Paramedical Staff & Technicians
- Nurse-OT/ICU/EMT/Lab/Radio
- Operation Management Services

#### **Biomedical Engineering Services.**

#### We can Repair and maintain all kind of medical Equipment and Hospital Furniture.

# Radiology Equipment # Laboratory Equipment # Hospital Furniture & Accessories.

# Operation theater Equipment # ICU and Criti care Equipment. # Clinical Equipment.

#### **Services**

- Vistit -Inspection, Assessment and budgeting for the repair with/without cost of spare.
- 2 Provide spare parts at best price and at earliest.
- Provide after repairing /Installation support.
- Installation and training of new machines.
- Can work with the company engineer in case of under warranty equipment.



#### **Medical Tourism**

#### Why to go India for Medical Treatment?

- India is booming destination for Health seeker.
- 2 State-of-the-art hospital services at the most affordable cost.
- Most qualified and oversea experienced Doctors.
- Availability of advanced medical technology without a waiting list.

#### What we can do for you?

- We can organize a free consultation with the Dr and provide you with 2nd opinion.
- We can find out the best suitable hospital for your treatment.
- We can get the best offer for your treatment.
- We can assist you with getting an invitation letter to arrange a visa & ticket, etc.
- We can assist you locally -Pick up a Taxi/Translator/ Hotel/Apartment/Mobile sim recharge etc.



#### Dr. Avinash Patil

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## SCAFFOLDING SOLUTIONS

Safety, Reliability and Innovation in Every Structure



## Types of Scaffolding

#### **Ringlock Scaffolding System**

Standard: AS/NZS1576

Advantage:

Safety: Ringlock standards are assembled with ledgers and diagonal braces using secure fixed wedge connections, It enhance the safety and stability of the system.

Economic: Easily assembled system scaffold saves time and labor costs.

Application: Ringlock scaffolding is widely used in many construction projects, such as Civil & Building, interior decoration, stage erection, bridge construction, etc.

#### **Two Normal types**



Inner spigot

outer sleeve spigot

#### 60 system standard

Material: Q355 Steel

Surface treatment: Hot dipped galvanized

Dimensions: Φ60\*3.25mm

Effective length: 500/1000/1500/2000/2500/

3000 mm

#### Ringlock standard/ vertical with spigot

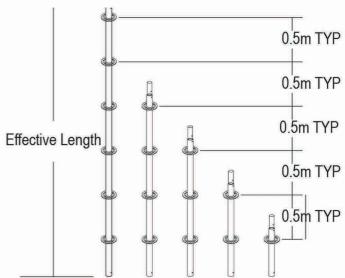
Material: Q355 Steel

Surface treatment: Hot dipped galvanized

Dimensions:  $\Phi48.3*3.25$ mm

Itemp No.	Length	Theoretic Weight
YFRS48 050	0.5 m / <b>1'7"</b>	3.2 Kg / <b>7.04 lbs</b>
YFRS48 100	1.5 m / <b>3'3"</b>	5.5 Kg / <b>12.1 lbs</b>
YFRS48 150	1.5 m / <b>4'11"</b>	7.8 Kg / <b>17.16 lbs</b>
YFRS48200	2.0 m / <b>16'6"</b>	10.1 Kg / <b>22.22 lbs</b>
YFRS48250	2.5 m / <b>8'2"</b>	12.4 Kg / <b>27.28 lbs</b>
YFRS48 300	3.0 m / <b>9'9"</b>	14.6 Kg / <b>32 .12 lbs</b>







#### Cuplock Scaffolding System





#### Cuplock standard/vertical (Material: Q235/Q355 Spec: 48.3\*3.2 mm

Item No.	Length	Weight
YFCS 300	3 m / 9'10"	17.5 kg / 38.25 Ibs
YFCS 250	2.5 m / 8'2"	14.57 kg / 32.12 Ibs
YFCS 200	2 m / 6'2"	11.82 kg / 26.07 Ibs
YFCS 150	1.5 m / 4'11"	9.05 kg / 19.95 Ibs
YFCS 100	1 m / 3'3"	6.3 kg / 13.91 Ibs
YFCS 050	0.5 m / 1'8"	3.5 kg / 7.77 Ibs



Item No.	Length	Weight
YFCL 250	2.5 m / 8'2"	9.35 kg / 20.61 Ibs
YFCL 180	1.8 m / 6'	6.85 kg / 15.1 Ibs
YFCL 150	1.5 m / 4'11"	5.75 kg / 9.46 lbs
YFCL 120	1.2 m / 4'	4.29 kg / 13.91 Ibs
YFCL 090	0.9 m / 3'	3.55 kg / 7.83 lbs
YFCL 060	0.6 m / 2'	2.47 kg / 5.45 Ibs



#### **Cuplock Diagonal Brace** Material: Q235 Spec: 48.3\*3.2 mm

Item No.	Dimensions	Weight
YFCD 1518	1.5*1.8 m	8.25 kg / 18.19 Ibs
YFCD 1525	1.5*2.5 m	9.99 kg / 22.02 Ibs
YFCD 2018	2*1.8 m	9.31 kg / 20.52 Ibs
YFCD 2025	2*2.5 m	10.86 kg / 23.94 Ibs



Item No.	Length	Weight
YFCIT 250	2.5 m / 8'2"	11.82 kg / 26.07 Ibs
YFCIT 180	1.8 m / 6'	8.29 kg / 18.28 lbs
YFCIT 150	1.3 m / 4'3"	6.48 kg / 14.29 Ibs
YFCIT 120	1.2 m / 4'	5.98 kg / 13.18 Ibs
YFCIT 090	0.795 m / 2'7"	4.67 kg / 10.3 Ibs
YFCIT 060	0.565 m / 1'10"	3.83 kg / 8.44 Ibs







**Cuplock scaffolding accessories** 







top cup Material : Ductile casted iron Weight: 0.43-0.45kg Finsh: HDG, natur



bottom cup Material : Q235 steel Pressed Carbon Weight : 0.2kg

Finsh: HDG, nature



Ledger blade Material : #35Drop Forged Weight : 0.2-0.25kg Finsh: HDG, natur

#### **Quick Lock Scaffolding System**





Standard: Material: Q235 Finishing: Painted

Quick lock standard/vertical (Spec: 48.3\*3.25 mm Quick lock ledger/ Horizontal (Spec: 48.3\*3 mm)

Item No.	Length	Weight
YFQLQ 300	3 m	17.6 kg
YFQLS 240	2.4 m	13.82 kg
YFQLS 180	1.8 m	10.52 kg
YFQLS 120	1.2 m	7.31 kg
YFQLS 090	0.9 m	5.67 kg
YFQLS 060	0.6 m	3.92 kg

Item No.	Length	Weight
YFQLL 240	2.4 m	9.93 kg
YFQLL 180	1.8 m	7.63 kg
YFQLL 180	1.5 m	6.48 kg
YFQLL 120	1.2 m	5.32 kg
YFQLL 090	0.9 m	4.17 kg
YFQLL 060	0.6 m	3.02 kg

#### **Quick lock scaffolding accessories**







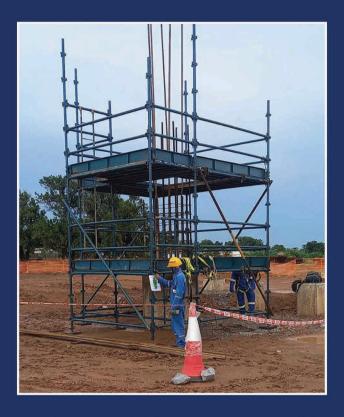
**Coupler connected** 

Adapter plug



### **Quick Stage Scaffolding System**









Quickstage scaffolding is a type of modular scaffold system that includes components of verticals, horizontals, transom, brackets, boards and battens, base jacks, tie bars, etc. On the quickstage horizontals, there are pressed wedges, and on quickstage standards, there are V clips form a star at every 500mm.

### Globally, there are two types of **Quickstage:**

### **Quick Erection & Dismantling**

Q/stage with C pressing and wedges (Africa, Versatile for all purposes of construction and Indonesia & Middle East Area Use) Quickstage with sharing high load capacity. Easy to stock and Thumb Pins and Wedges ( Australian and UK, Ireland Area Use).

transport.

### Benefits of Quickstage Scaffolding

Versatility	Stability
Easy to stock	Durability
Safety	Cost-Effectiveness

## Advantages of using MES Scaffolding Rental Services:

- Cost-Effective: Renting scaffolding eliminates the need
   for a large upfront investment in purchasing equipment, saving capital for other project needs.
- High-Quality Equipment: MES provides well-maintained,
   high-quality scaffolding that meets industry standards,
   ensuring safety and reliability.
- Flexibility: Tailor your rental period to match your project timeline, allowing for adjustments as project requirements change.
- Expert Support: MES offers professional consultation
   and support, helping you choose the right scaffolding solution for your specific project needs.
- Safety Compliance: All scaffolding equipment complies
   with local and international safety regulations, reducing the risk of accidents and ensuring worker safety.
- Quick Installation and Dismantling: Experienced MES
   teams ensure fast and efficient scaffolding setup and removal, minimizing project delays.
- Variety of Scaffolding Types: MES provides a range of scaffolding options, including frame, system, shoring, and access towers, suitable for various applications.
- On-Site Inspections: Regular inspections and
   maintenance services ensure that the scaffolding remains in optimal condition throughout the rental period.
- Reduced Storage Needs: Renting scaffolding eliminates
   the need for long-term storage space, reducing your overall logistics and storage costs.
- Scalability: Easily scale your scaffolding needs up or down based on project size and complexity, providing a customized solution for any project scope.





### SCAFFOLDING SOLUTIONS Safety, Reliability and Innovation in Every Structure











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- 175 Avenue du 30 juin , Q/Mutoshi en diagonal du batiment MCC





### Who we are!

Welcome to Congo Media Networks, your premier destination for comprehensive marketing, media, and branding solutions. At Congo Media Networks, we understand the power of effective communication and strategic branding in today's dynamic business landscape. With a passion for creativity and innovation, we are committed to elevating your brand presence and driving tangible results.

### We are part of Group MES (Mining Engineering Services)



Mining Engineering Services is a large business conglomerate in DRC and is part of the prestigious Vinmart Group which has presence across multiple countries around the world.

### Our Customer-First approach

All our marketing and branding services are tailor made based on marketing intelligence and data analytics For Digital Media Platforms, Performance matrices are shared with clients on regular basis

15<sup>+</sup> Websites Developed 30<sup>+</sup>
Digital Media
Clients

100+ Events

Video Contents 150+ Vehicle

Graphic Designing





### **Marketing Strategy**

From market research and analysis to campaign development and execution, we help you reach your target audience and achieve your marketing objectives.



### **Media Production**

Our services include video production, photography, editing, live streaming, and animation. We bring your vision to life through creative storytelling, professional sound design, and stunning visuals.



### **Printing Solutions**

We provide digital, offset, screen, embossed prints, flex, stickers, and more for all your printing needs.



### **Digital Marketing**

Harnessing the power of digital channels, we drive traffic, engagement, and conversions through effective SEO, social media marketing, email campaigns, and more,



### Conventional Marketing

ATL, BTL, TTL, OOH - Billboards, Branding Materials, Marketing Collaterals, Events, Road shows.



### **LED Screen Rental**

For indoor and outdoor events. Conferences, musical concerts, meeting rooms, religious events, etc.



Complete guide of penetration of channels Running of advertisement campaigns All locations in DRC



### TV & Radio Ads Event Management

**Business** events **Exhibitions** Product launch Corporate events



### **Billboard Rental**

Maximize your visibility with our prime billboard rental options. We offer strategic locations, customizable sizes, and eye-catching designs to effectively promote your brand



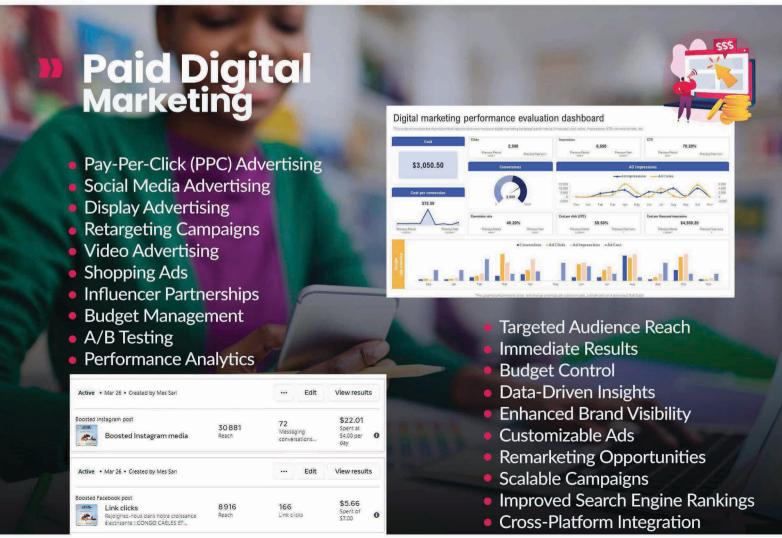
### Camera & Drone Shoot

Capture stunning visuals from every angle with our professional camera and drone shoot services. Our experienced team utilizes state-of-the-art equipment to deliver high-quality photography and videography for various projects, including events, real









### LED Screen

### Rental

For indoor and outdoor events, conferences, musical concerts, meeting rooms, religious events etc.











### Display Solutions

Turnkey project management solutions for any kind of Display technology:

- LED Video wall
- LED/LCD Outdoor & Indoor Digital Signage Series
- Digital Window Display











# CORPORATE SOCIAL RESPONSIBILITY

VINMART Foundation KISENGO Foundation



**Healthcare** 

**Education** 

Infrastructure

Entrepreneurship

















Giving back to the communities is a part of the values held by The Vinmart Group. Through the Vinmart Foundation, we are building since 2012 sustainable livelihoods for local communities of the Katanga Province in the Democratic Republic of Congo.



Created in 2013 and operational from 2015, the Kisengo Foundation is effectively and sustainably improving the lives of the people of Kisengo through an integrated rural development program in infrastructure, health, education and environmental development.



### **MES at Various Events**























# Safety first and always A Culture of Care

At MES, safety is not just a priority, it's our responsibility.













Safety is the cornerstone of our success. Together, we build not just structures, but trust and confidence.



## United as One, Driven by Many

We Build Dreams Together

At MES, our greatest strength is our people. It's their hard work, collaboration and passion that drive our success. Together, we turn visions into reality.



One Team, One Dream!

### GLOBAL PRESENCE OF VINMART GROUP











Marketing & Trading Arm, Group Treasury









Procurement of Material, Marketing of Metals



#### **CENTRAL OPERATIONS OF VINMART GROUP**

Mining & Mineral Processing Agriculture & Agro Processing Manufacturing & Trading Mining Waste Collection & Recycling Turnkey Projects (EPCM Contracting)
Engineering Supply Services, Maintenance Contracts
Power projects (Generation and Distribution)
Production & Distribution of FMCG Products



### **Our Associates Across the Globe**

TANZANIA - DAR ES - SALAAM VINMART LTD

419, Harbour View Tower (J.M. Mall), Samora Avenue Road, Dar Es Salaam, P.O. Box 77007, Tanzania.

CHINA - GUANGZHOU VINMART LTD

1707, R&F Tian He Commercial Bldg., Lin He Dong Road, Opp. Guangdong, Tobacco Building, Tian He District, Guangzhou - PIN 510610, China. UAE - DUBAI VINMETAL SYNERGIES FZCO

Room - 908, JAFZA VIEW 18, Post Box 263104, Sheikh Zayed Road, Jebel Ali, Dubai, UAE.

ZAMBIA METMIN LTD

Plot No. 3709, Mansa Road, Light Industrial Area, P.O. BOX 23566, Kitwe - Zambia. INDIA - VADODARA EXCEL SOURCE INTERNATIONAL PVT.LTD

Excel house, Block 2, Sarabhai campus, 73 East Avenue. Bhailal Amin Marg, Near Genda Circle, Vadodara - 390023, Gujarat India.

SOUTH AFRICA ROSVIN PTY LTD

The Form Building, 15th Floor, 2 Maude Street, Sandton 2196.

### **Democratic Republic of Congo**

#### **SOMIKA SARL**

Manufacturing of Copper & Cobalt Hydroxide

### MMR SPRL

Mining & Trading - Tin, Tantalum and Tungsten

#### PANAFRIQUE MOTORS SARL

Official distributor of Tata Motors Limited & Mahindra Limited

### SOTRAFER SARL

Manufacturing - Rebars

**KIMIN SAS** 

Mining - Copper

& Cobalt

### MAISONS SUPER DEVELOPMENT (MSD)

Leading construction company

### **TERRA SARL**

Commercial Agriculture

### MCS SARL

Chemical Supplies & Trading

#### MAYFAIR INSURANCE

Non-life insurance company

### SOLUTION FOR AFRICA SARL

Borewell & Geolgical Drillling

#### RAINBOW KATANGA SARL

Hygiene products manufacturer

#### CONGO CABLES & TRANSFORMERS

Manufacturer of copper billets, copper rods, copper wire, copper pipes, wites and cables, aluminium conductors and transformers

### **CONGO PIPING SAS**

**HDPE Pipes and Fittings Solutions** 

#### **CLEAN CONGO SAS**

Sustainable waste management solutions



























### **Head Office & Works:**

794, Deviation Route Likasi, Lubumbashi, C/ Annexe D.R. Congo

### Regional office / Kolwezi:

No. 524, Avenue Industrial, Commune Manika, Kolwezi, Lualaba, D.R. Congo







Get in touch with us:



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Follow us on







