



OUR WORK
 INDUSTRIAL MAINTENANCE
 STEEL STRUCTURES
 MECHANICAL AND PIPING
 REFRACTORY SERVICES









OUR VALUES
 EXCELLENCE
 ZERO-HARM
 ETHICS
 COMMITMENT
 BELIEF



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Our Project Experience in the AMA1 Categories Selected

Categories	Project	Field	Location	Budget (US\$)	Period
4.3.1 Steel / Metal / Concrete Structures / Platforms (TURNKEY)	Monazite Rich Concentrate Handling Structural & Mechanical Equipment Installation KENMARE Scope of Work: Fabrication, installation, and erection of all structural and mechanical components for a Monazite Rich Concentrate Handling Facility. Components include: support brackets, pipe supports, valves, gravity pipe feeders, service platforms, access platforms, roof structures, piping, bucket elevators, etc.	Steel Structures	Topuito, Nampula MOZAMBIQUE	\$ 555 360	August 2018 - October 2018
	Supply and Installation of 4000m² all weather structural shed * PORT OF MAPUTO Scope of Work: Design, manufacture, deliver and erect a 100mx40 pre-fabricated all-weather shed. I. Fabrication of anchor bolts, pillars, trusses and purlins II. Installation of pillars. Trusses and purlins, roof sheeting and walls III. Commissioning	Steel Structures	Maputo MOZAMBIQUE	\$ 538 347	July 2013 - December 2013
3.5.1 Steel / Piping / Mechanical Service	Raw Water Dam 12/10 Slurry Pumps Replacement KENMARE Scope of Work: Supply, fabrication and corrosion protecting painting of new pipe sections; supply of all bolts and gaskets required; Removal of existing pump and installation of new pump in 16 hour shut period, one pump per shut until all 3 has been replaced; pipe installation; Installation of pump base into concrete floor with chemical anchors (M24 Chemset).	Mechanical and Piping Services	Topuito, Nampula MOZAMBIQUE	\$ 48 228	March 2018 - April 2018
	Pande Pig Traps Project * SASOL PETROLEUM TEMANE Scope of Work: Installation of pig launcher and receiver; Welding and installation of flare line, nitrogen line and kicker line; Hydrostatic testing of all pipes. I. Structural Scope: Fabrication and erection of flare line supports and fabricated pipe supports II. Static Equipment: erection of PIG receiver and PIG launcher, installation of JIB crane for receiver and launcher, and installation of trolleys. III. Piping: supply of PIG receiver associated piping, installation of 30" Ball valves. IV. Shutdown: removal and replacements of 30" Gate Valves, installation of 30" spool pieces, manifold replacement.	Mechanical and Piping Services	Pande and Temane, Inhambane MOZAMBIQUE	\$ 557 092	June 2013 - December 2013
3.5.5 Insulation Services	Refractory Services MOZAL ALUMINIUM SMELTER Scope of Work: I. Reduction Plant: linings and re-linings of pot shells, de-linings and re-linings of hot metal and bath ladles; II. Anode Bake Furnace (Carbon) Plant: full wall building and replacement, major refractory repairs, gas port cleaning, and seal replacement. III. Aluminium Casting Plant: repair of casting furnaces, removal and reinstallation of spreads, repair of spouts and siphons, and replacement of full wall on furnaces.	Refractory Services	Beluluane, Maputo MOZAMBIQUE	\$ 4 220 641	November 2017 - June 2021
3.5.6 Surface Treatment, Sandblasting, Painting, Coating and Fireproofing Services	General Mechanical & Electrical Maintenance Services MOZAL ALUMINIUM SMELTER Scope of Work: General maintenance (Cutting, welding, grinding, sandblasting, corrosion protection painting, and coating) of metallic structures and equipment as well as reverse engineering. Common components include: safety guards, handrails, gratings, support structures, trailers, floor plates, bins, conveyors, metal inlet doors, and service and access platforms.	Mechanical Maintenance	Beluluane, Maputo MOZAMBIQUE	\$ 6 161 290	July 2013 - October 2018

<p>3.5.12 Pipe Cutting and Bending Services</p>	<p>Removal, Repair and Installation of Incinerator Force Draft Cooler SASOL PETROLEUM TEMANE</p> <p>Scope of Work: Removal and mechanical repair of incinerator force draft cooler, and project management of installation, including hire and management of 130 TON crane capacity. Replacement of 36" 316 stainless steel pipe, including cutting and welding according to specifications.</p>	<p>Mechanical and Piping Services</p> 	<p>Pande, Inhambane MOZAMBIQUE</p>	<p>\$ 37 035</p>	<p>December 2017 - February 2018</p>
	<p>Fabrication and supply FLANGED PIPE NB500 ASTM ASTM A106 GR B PCD642MMX16 HOLES 6000MM and 4000MM LONG KENMARE</p> <p>Scope of Work: Fabrication and supply of two 6000mm-off and two 4000m-off pipes, standard weight pipe in accordance with ASTM A106 Gr B seamless pipe; of AS2129 flanges, with flange holes, number, and diameter as PCD 642mm, 16 holes, and 26mm respectively.</p>		<p>Mechanical and Piping Services</p>	<p>Topuito, Nampula MOZAMBIQUE</p>	<p>\$ 25 047</p> <p>July 2018</p>
<p>3.5.17 Welding and Jointing Services</p>	<p>Pot Cut Out and Replacement MOZAL ALUMINIUM SMELTER</p> <p>Scope of Work: Provision of labour, supervision, all small tools and consumables to remove and replace the pot superstructure, pot shell and force cooling network, using qualified coded welders, with welding operations audited by 3rd party. Welding is done under magnetic fields of up to 450 gauss in strength, including riser sealing welds to reduce the ingress of process powders into the joint over the life of the pot. Positive riser 2 and 4 stub joint strengthening during pot change-out; adding 16mm thick 1350 aluminium cover plates and welding in an active potline environment.</p>		<p>Steel Structures</p>	<p>Beluluane, Maputo MOZAMBIQUE</p>	<p>\$ 927 322</p> <p>June 2014 - present</p>
<p>3.5.23 Machining Services in situ and general machining</p>	<p>Bell & Trolley Refurbishment Service MOZAL ALUMINIUM SMELTER</p> <p>Scope of Work: Supply of competent and qualified resources for the Replacement of bell counterweight, bell round bar, load chain, proximity striker, dust seal cover; trolley lubrication, and tolerance and standards check; in strict accordance with the original equipment manufacturer's specifications.</p>		<p>Mechanical Maintenance</p>	<p>Beluluane, Maputo MOZAMBIQUE</p>	<p>\$ 102 619</p> <p>March 2018 - February 2021</p>
<p>3.5.30 Valve Management Services including testing and repair</p>	<p>Pande Pig Traps Project * SASOL PETROLEUM TEMANE</p> <p>Scope of Work: Installation of pig launcher and receiver; Welding and installation of flare line, nitrogen line and kicker line; Hydrostatic testing of all pipes. Valve Management included: I. Supply of ESD Valve support for Pande PIG Launcher area II. Installation of 30" Ball valve for Pande PIG Launcher and Temane PIG Receiver areas III. Removal of existing 30" Gate valve during Shutdown on Temane PIG Receiver area and Pande PIG Launcher area.</p>		<p>Mechanical and Piping Services</p>	<p>Pande and Temane, Inhambane MOZAMBIQUE</p>	<p>\$ 557 092</p> <p>June 2013 - December 2013</p>
<p>3.5.35 Tank Construction and Maintenance</p>	<p>Refurbishment of 15000m3 D500ppm tank BP</p> <p>Scope of Work: Refurbishment of >50% tank shell and structure of 15000m3 capacity. Activities included: I. Cold drilling for air inlet of tank bottom and foam treatment for risk mitigation during hot work. II. Periodic daily gas testing for safety assessment before hot work.</p>		<p>Mechanical Maintenance</p>	<p>Munhava, Beira MOZAMBIQUE</p>	<p>\$ 435 484</p> <p>June 2013 - November 2013</p>
<p>3.5.99 Other Construction / Maintenance Services</p>	<p>General Mechanical & Electrical Maintenance Services MOZAL ALUMINIUM SMELTER</p> <p>Scope of Work:General maintenance of metallic structures and equipment as well as reverse engineering. Fabrications and repair: +30 000 TON/month of processed steel, consisting of safety guards, handrails, gratings, support structures, trailers, floor plates, bins, conveyors, metal inlet doors, service and access platforms, etc.. Supply of maintenance labour: (1) Certified Electricians for assembly, installation, testing, maintenance of electrical or electronic equipment and diagnosing malfunctioning systems, apparatus, and components; (2) certified mechanical fitters for assembling and disassembling mechanical components, sketching and measuring of mechanical components; (3) certified boilermaker for the welding and repair of worn plates and tight containers, as well as repair/replace defective pressure vessel components; (4) certified coded welders to interpret technical drawings, material safety data sheets and work orders, weld components in flat, vertical, or overhead positions separately or in combination, using aluminium, stainless steel, cast iron and other alloys.</p>		<p>Mechanical Maintenance</p>	<p>Beluluane, Maputo MOZAMBIQUE</p>	<p>\$ 6 161 290</p> <p>July 2013 - present</p>
<p>2.8.2 Thermal Insulation Materials</p>	<p>Supply of Refractory bricks and castable for furnace relining MIDAL CABLES</p> <p>Scope of Work: Demolition and removal of material of an existing furnace wall, including the preparation of the area for the construction of the new wall; and supply and installation of refractory ceramic bricks and castables.</p>		<p>Mechanical Maintenance</p>	<p>Beluluane, Maputo MOZAMBIQUE</p>	<p>\$ 5 530</p> <p>April 2018</p>

* Projects executed under the name of Agro Alfa SA (the company that was partially transformed into Belutécnica).