



BSS

Specialised Mechanical Services



About Us

Babak Steam Services

Babak Construction was established in 1975 by Mike Babak. In 1975 a Boiler Division was established that specialized in boiler and steam plant and equipment. Over the following years and after completing many projects , mainly in the hospital and prison sectors, the company had gained extensive knowledge and experience in the Steam Generation and Distribution industries.

In 2008 it was decided to form a new company - Babak Steam Services - introducing new shareholders and a new board of directors.





What we do

- Steam Generation - Boilers
- Steam Distribution – Steam & Condensate Lines, Condensate Tanks, Pressure Reducing Stations, Steam Trap Arrangements
- Hot Water – Calorifiers & Heat Pumps
- Industrial kitchens & Laundries – Design, Install and Commission
- Integrated Security Systems
- Electrical Works

Our Grading



BBEEE - Level 2
51% Black Owned Youth



CIDB Grading 8ME
CIDB No: 207674 //CSD No: M AAA 023 4484

Steam Generation

Coal Fired Boilers

NEW BOILER INSTALLATIONS

Including construction of Boiler house, Boiler installation, Grit Arrestors, Chimneys, Condensate Water tanks, Water purification plants, Coal bunkers, Coal Conveyer equipment, Ash Removal & Hoists, Blow down channeling & Piping and Steam distribution & condensate return piping.



OVER 135 NEW BOILER INSTALLATIONS COMPLETED



Boiler Statutory Inspections

Full preparation of Boiler for both the 36 month statutory inspection and the 12 month statutory inspection, as required by the Health & Safety Act of 2010.

36 MONTH STATUTORY INSPECTION INCLUDES

- Stripping and cleaning of Boiler Shell, Boiler Tubes, Acid wash
- Refurbish and Certify valves and components
- NDT & UT Testing on all critical welds
- Repairing of all faulty components and reassemble Boiler
- Final Inspection done by an AIA includes a pressure test and commissioning of the boiler by the manufacturer.

Operation, Repair & Maintenance of Boilers

We have a team of Boiler House Supervisors, Boiler Operators & Boiler Assistants that were trained & certified By John Thompson. We ensure that all operating procedures are adhered too, including completing hourly log sheet recordings, water analysis and treatment & using the correct quality of coal according to specifications.

By maximizing the efficiency of the boilers, we can save significant operating costs.

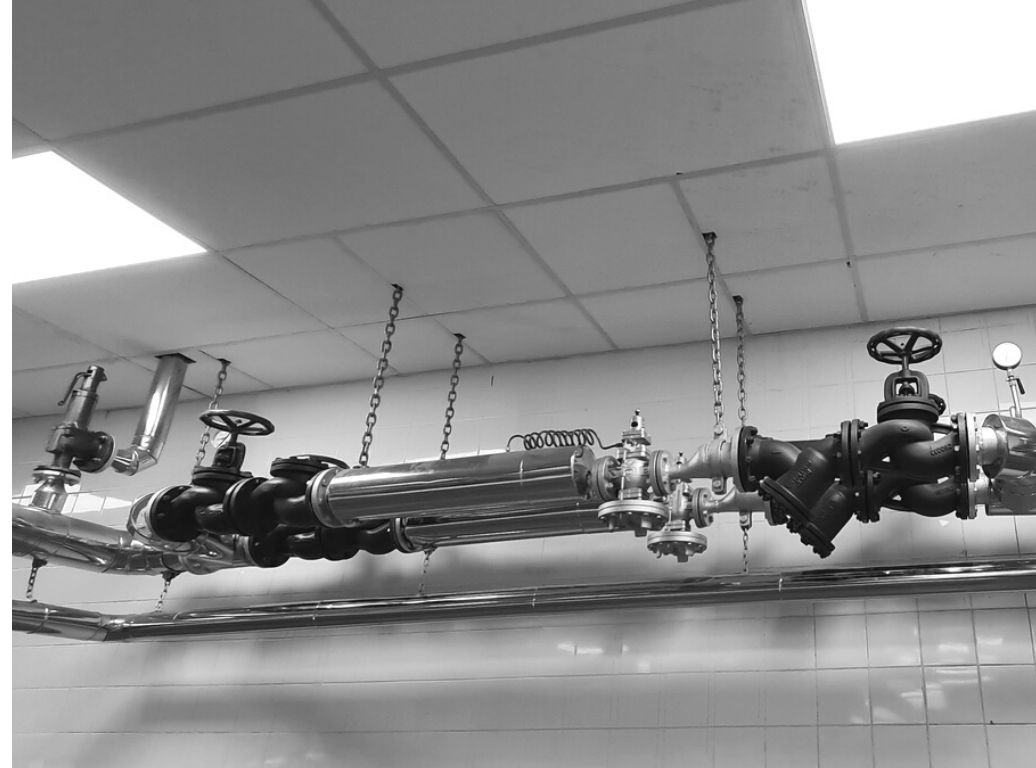
We are fully certified (Coded) and to weld on Pressure Vessels and Piping according to both the British Standard and the American Standard as required by the Health & Safety Act of 2010.



Trained & Certified
By John Thompson

Steam Distribution

Complete installation of new steam & condensate lines, from design, drawings, installation to testing & Commissioning of the line & signed off by an Accredited Inspection Authority (AIA) as per the Health & Safety Act of 2010.



Hot Water Reticulation

Complete installation of Steam Calorifiers or Heat Pumps including the installation of hot water lines, from design, drawings, installation to testing & commissioning of the system.

Civil Works

INDUSTRIAL KITCHENS

A Complete kitchen makeover, from design, civil and building work, industrial flooring, walling, ceilings, fat traps, freezers & cold rooms, steam & water reticulation, kitchen equipment, steam pots, ovens, electrical work...

BEFORE



AFTER



Water Treatment

SEWER PLANT REPAIR, MAINTAINANCE AND OPERATIONS
GREYWATER MANAGEMENT
CHEMICAL DOSING
WATER MONITORING

Water treatment is a process involving different types of operations (physical, chemical, physicochemical and biological), the aim of which is to eliminate and/or reduce contamination or non-desirable characteristics of water.



Before

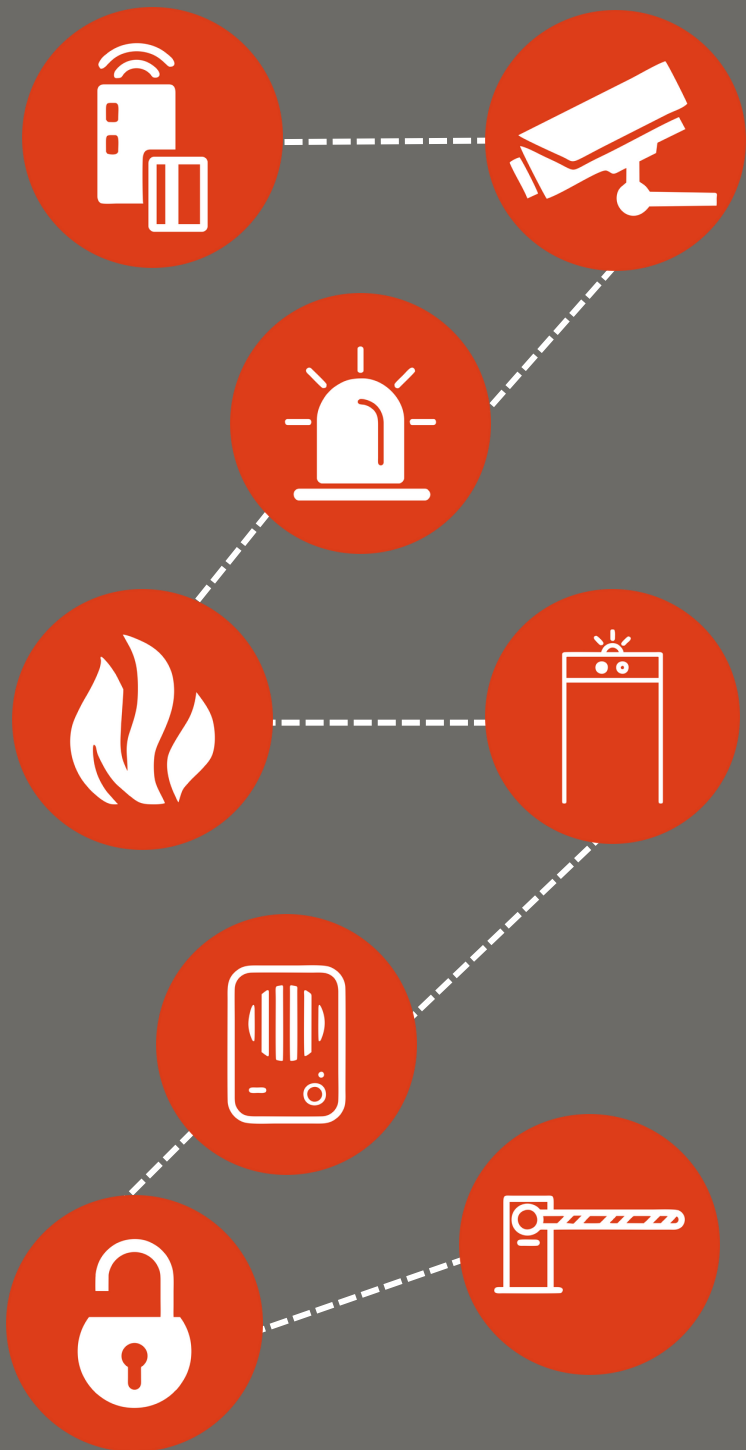


After



Refurbishment on sewer plant in Devon for Correctional Services





Integrated Security Systems - ISS

Integrated security systems are a type of multi-layered system that uses different components and threads them into one.

An integrated Security system is a centralized platform combining various security perimeters such as wireless alarm systems, access control devices, video surveillance, etc. This integration allows for ease in managing all these supposedly different components and further allows to bring a greater layer of security for the organization.

The following elements may or may not be a part of an integrated security system:

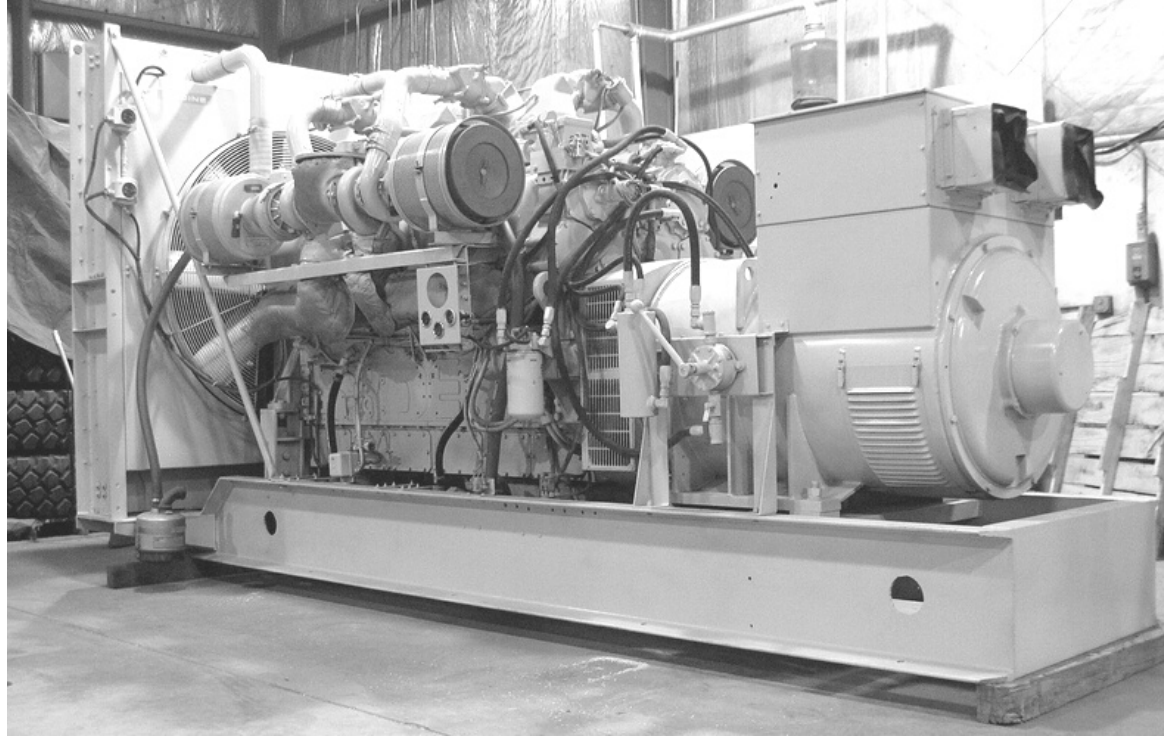
- Video Surveillance
- Video Monitoring
- Video Review and Analysis
- Access Control
- Audio Warning Speaker
- Fire Alarm System
- Metal Detector

Electrical Works

BSS facilitates your backup power needs and provides a sustainable and reliable turnkey solution.

We Supply, Installation and Commission Standby Generators ranging from 30KVA - 600KVA.

BSS offers a value added service to Repair and Maintain your turnkey backup power system.



Other electrical related works

- LED High Mast Lighting
- LED Flood Lights
- LED Street Lights
- Non-Tamperproof Light fittings
- Industrial Kitchen & Laundry power supply



Turnkey

BSS offers your company a full turnkey solution for all your Steam Generation & Distribution requirements as well as your industrial kitchens and laundry requirements.

We offer inhouse certified project management using PMBOK principles. Our team is equipped to take on large projects that calls for experience and skill set specifically focused in the Mechanical, Electrical & Civil industry.



Initiation



Planning



Executing

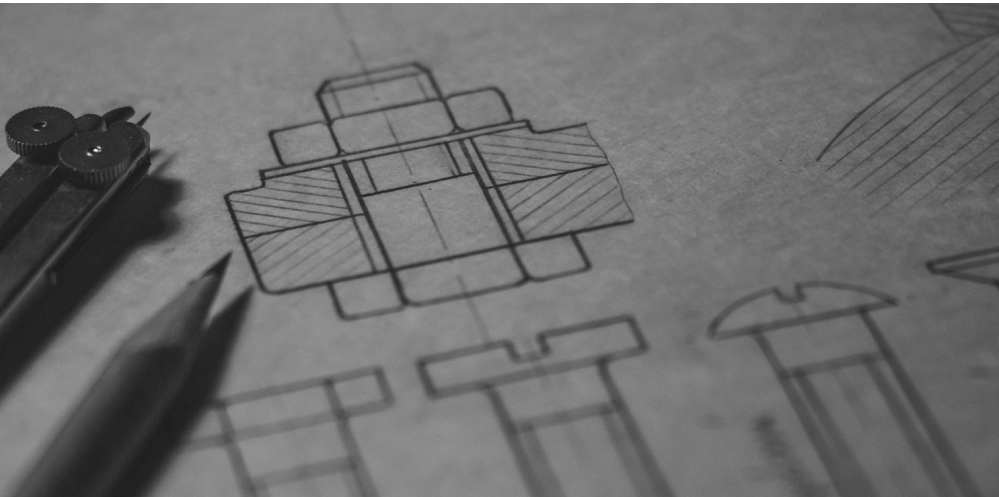


Monitoring & Controlling



Closing

PROJECT MANAGEMENT APPROACH



Completed projects



BOKSBURG CORRECTIONAL CENTRE - 2019-2021

CLIENT

Department of Public Works

SCOPE

Repair & Maintenance of Electrical & Mechanical Components

DURATION

24 Months

VALUE

R67,526,916.00

KRUGERSDORP CORRECTIONAL CENTRE - 2019-2021

CLIENT

Department of Public Works

SCOPE

Repair & Maintenance of Electrical & Mechanical Components

DURATION

24 Months

VALUE

R67,927,270.00

THOHOYANDOU PRISON - 2016-2018

CLIENT

Department of Public Works

SCOPE

Replacement of two boilers & operation for 2 years

DURATION

24 Months

VALUE

R22,303,125.27

DIEPKLOOF & KRUGERSDORP PRISON - 2014-2017

CLIENT

Department of Public Works

SCOPE

Repair & Maintenance of Boiler & Steam Distribution & Operate. Day to Day

DURATION

24 Months + 12 Month extension

VALUE

R18,143,243.41

BOKSBURG CORRECTIONAL CENTRE - 2012-2014

CLIENT

Department of Public Works

SCOPE

Repair & Maintenance of Boiler & Steam Distribution & Operate.

DURATION

12 Months

VALUE

R8,616,848.50

DIEPKLOOF PRISON - 2010-2013

CLIENT

Department of Public Works

SCOPE

Repair & Maintenance of Boiler & Steam Distribution & Operate

DURATION

36 Months

VALUE

R16,412,135.00



Contact Us

Managing Director. Pamela Zamisa

Cell. 074 252 2487

E-mail. pam@babak.co.za

Project Manager. Gavin Chisholm

Cell. 082 753 0906

E-mail. gavin@babak.co.za

Website.

www.babaksteamservices.co.za

Tel.

011 792 7732

Email.

info@babak.co.za

Physical Address.

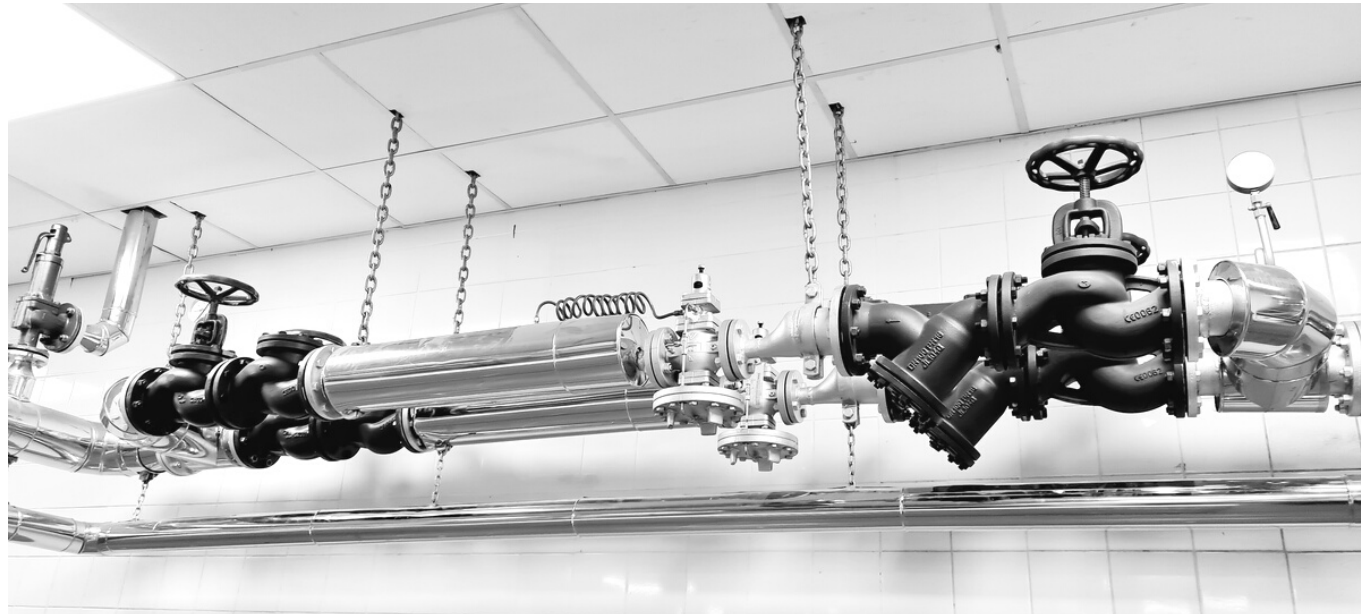
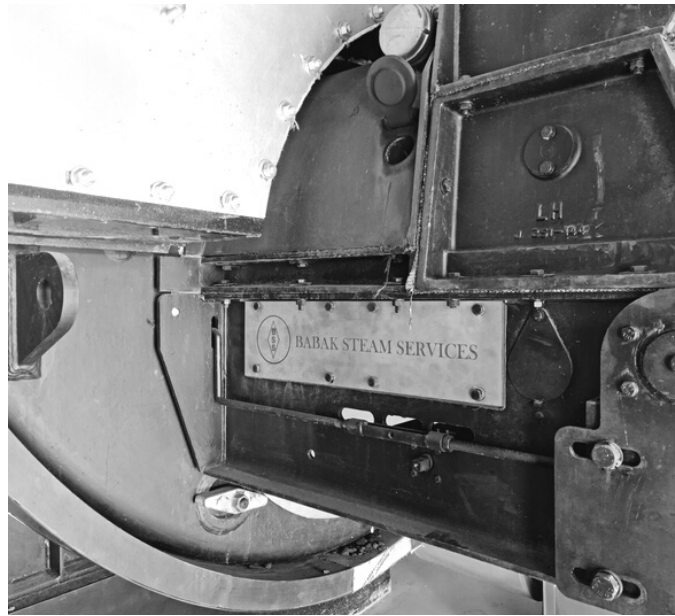
Unit 1 Avion.X Park,

Number 3 Central Road, Sunrella AH,

Lanseria, Gauteng, 1739

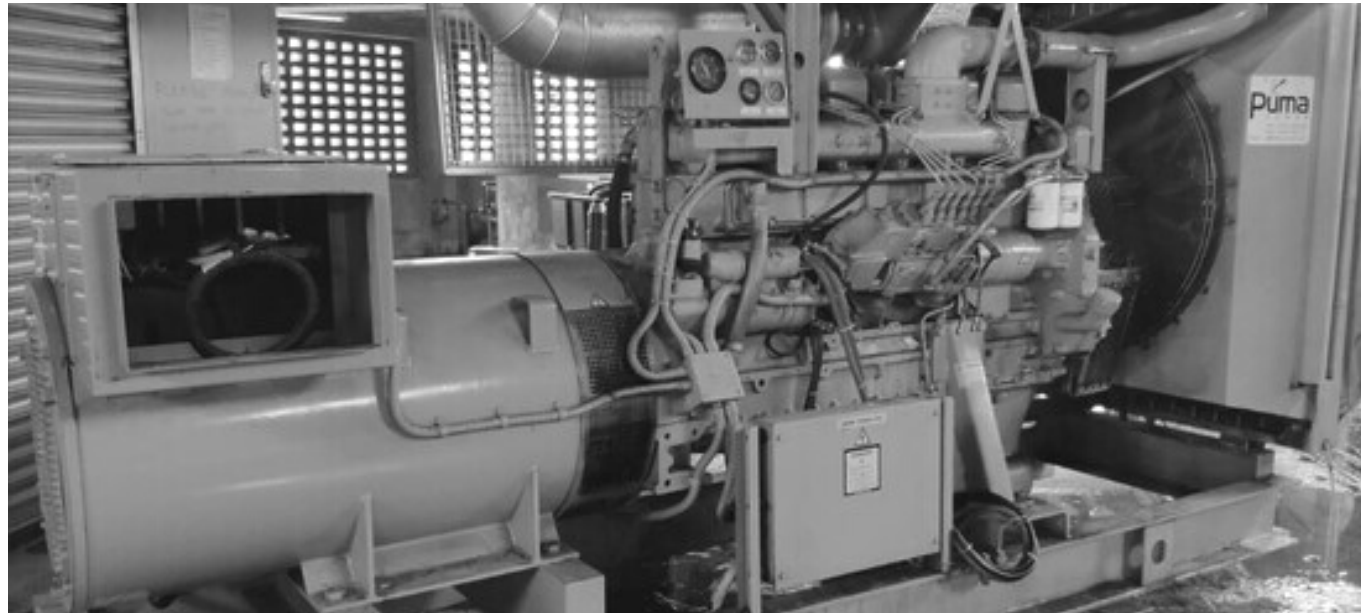
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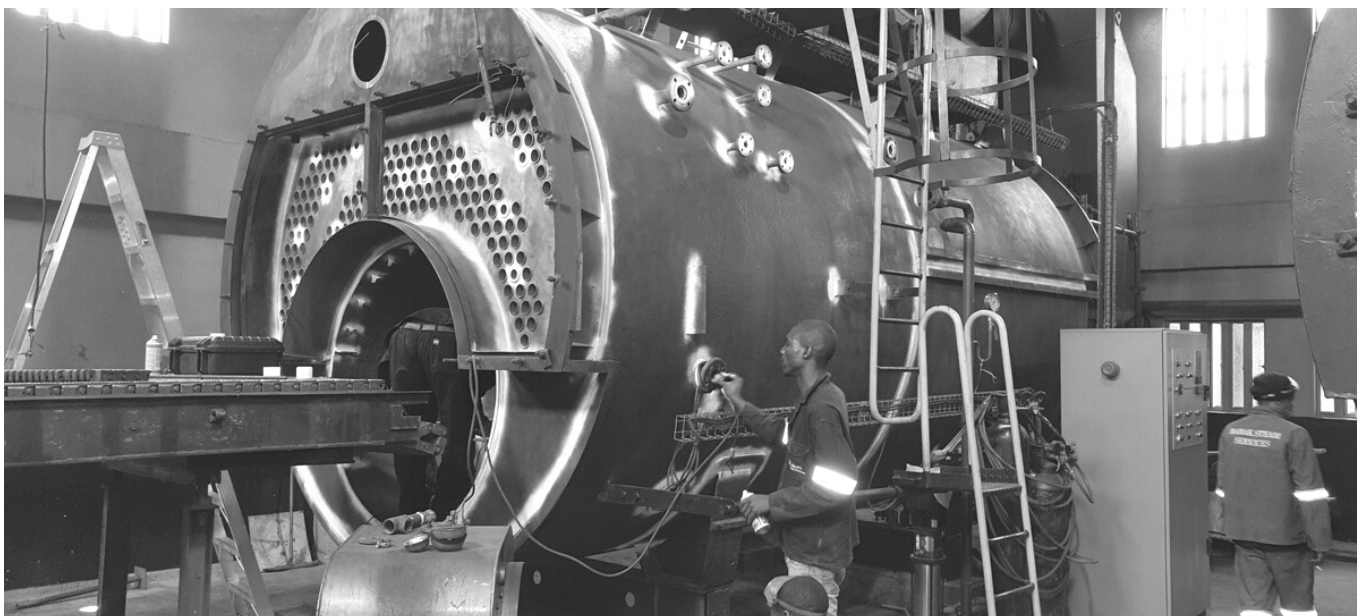
Vat No: 45 702 488 09













Website.
www.babaksteamservices.co.za

Tel.
011 792 7732

Email.
info@babak.co.za