



Specialist Water Engineering Contractors

HISTORY

Metsi Projects (Pty) Ltd evolved from Turbo Projects, a company originally specialising in the supply and installation of large pumping plant and other rotating machinery, which was established in 1980. Metsi Projects is a well-respected contracting company, having completed many pumping and water purification plants over the past 45 years, as well as the maintenance and refurbishment of plant in the water treatment industry. Metsi Projects is a **Level Three** B-BBEE Contributor.

ENGINEERING SERVICES

Our field of expertise covers the following disciplines:

1. Mechanical and electrical plant for turnkey pumping systems.
2. Water purification systems for domestic water, sewage and industrial effluent. This includes the design, manufacture and installation of filter floor systems including false floor slabs and pipe lateral systems.
3. Chemical dosing systems for chemical processes associated with potable water purification plants.
4. Sourcing and supply of products and commodities related to the above disciplines.
5. Refurbishments and retro-fitting of filter floors and other associated equipment.

OUR CLIENTS

Clients include Public Bodies such as The Department of Water and Sanitation, TCTA, Water Authorities, Municipalities, Eskom, Atomic Energy Corporation, Mining Houses and Private Companies. Numerous projects have been carried out throughout South Africa, Botswana, Lesotho and Zambia.

MAJOR PROJECTS

A comprehensive Reference List of completed projects since 1980 can be obtained on request. Some of the notable projects are listed below for ease of reference:

- Lepelle Northern Water (LNW) – Supply, installation and commissioning of mechanical plant to replace 15 high lift pumps in 4 pump stations, including piping, valves, cranes and ancillary plant. The variable speed pumps deliver up to 0.347m³/s at total heads of up to 330m, with a total installed motor power of 23.1MW. The contract also includes the complete refurbishment of 10 rapid gravity sand filters, valves, actuators and chemical dosing equipment for the 60MI/day Ebenezer water treatment plant. The total contract value of about R290million.
- Mhlatuze Water / Umngeni Water – Thukela-Goedertrouw Emergency Transfer Scheme – Supply, installation and commissioning of mechanical and electrical plant to double the capacity of the existing transfer scheme, including a river abstraction pump station and high lift pumps in 2 pump

stations, including piping, valves, cranes and ancillary plant. Each tandem pump-line delivers 0.625m³/s at a total head of 250m, with a total installed motor power of 8.7MW. The total contract value of about R154million.

- Trans Caledon Tunnel Authority (TCTA) – We completed 4 significant contracts for TCTA, as follows:
 1. The Mokolo Dam Pump Station which feeds the Medupi Power Station, with a total installed power of 6,9MW and a contract value of about R50million.
 2. The Steelpoort Pump Station, forming part of the Olifants River Water Resources Development Project, with a total installed power of 13,37MW and a contract value of R67million.
 3. Refurbishment of the Mearns pump station, situated at the Mearns weir, with an installed power of 7,88MW and a contract value of about R47million.
 4. The Mooi-Mgeni Pump Station situated at the Spring Grove Dam, with a total installed power of 6.5MW and a contract value of about R44million.
- Water Utilities Corporation, Botswana (WUC) - The 40MI/day mechanical extensions to the Palapye Water Treatment Works, which included the design, supply, installation and commissioning of the false filter floors, chemical dosing, piping, valves and ancillary equipment. The total contract value of about R61million.
- Magalies Water – We have completed numerous contracts for Magalies Water over the past 40 years, the most recent being the Vaalkop High Lift Pump Station, which consists of four tandem pump sets with a total installed power of 6.4MW and delivering 972m³/s at 306m head. The total contract value of about R40million.
- Department of Water and Sanitation – We have completed many large pump stations and water treatment plants for DWS. The most notable being the complete mechanical and electrical works for the 75MI/day extensions to the Inyaka Water Treatment Works, totalling about R97 million, and the complete mechanical works for the 60MI/day Nandoni Water Treatment Works, with a total contract value of about R84million.

O U R S T R E N G T H S

Our strength can be attributed to our vast experience and to the fact that we are not connected to specific equipment suppliers. We are therefore in a position to offer our Clients the best technical and commercial solutions.

Metsi Projects has a CIDB 8ME grading, with key staff members holding Professional Status with the Engineering Council of South Africa. We are therefore in a position to offer our services for all contract values.

Q U A L I T Y

Metsi Projects is a design, procurement and management company and as such does not manufacture any equipment, nor do we employ specialist Quality Assurance Engineers, as each Project Manager is responsible for the quality assurance procedures that are carried out. In line with our Quality Policy, orders are placed with reputable companies who generally comply with the requirements of ISO 9001. Additionally we provide our suppliers with Quality Control Plans, where we specify the Client's and our own requirements.

D R A W I N G S

It is of vital importance that accurate drawings are produced which will ensure successful projects. To ensure high standards, our mechanical layout and manufacturing drawings are produced in-house on AutoCAD® drawing software. This enables us to overlay mechanical equipment drawings onto drawings received by us in electronic format and we easily produce concept or "as-built drawings" for submission to Clients or Engineers.

M E M B E R S H I P S

Metsi Projects (Pty) Ltd is proudly affiliated to the following professional organisations:

- The Water Institute of Southern Africa
- The Engineering Council of South Africa
- The South African Institution of Mechanical Engineering
- The Construction Industry Development Board

C O N T A C T D E T A I L S

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PROJECTS AND REFERENCES

DWS - NANDONI WATER TREATMENT WORKS PROJECT (60MI/Day)



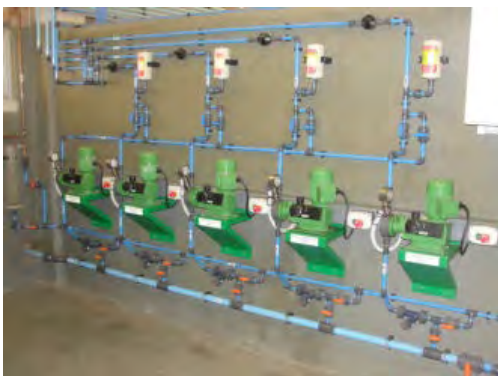
Nandoni Water Treatment Plant in construction phase, (60MI/Day) - Aerial View



Raw Water Pump Station



Lime Silo/Chemical Tanks



Chemical Dosing Equipment



High Lift Pump Station

MAGALIES WATER - VAALKOP WTW HIGH LIFT PUMP STATION



Vaalkop Pump Station (84MI/Day at 306m head)

TCTA / DWS - MOOI-MGENI TRANSFER SCHEME (MMTS-2)



Spring Grove Dam Pump Station (389MI/Day at 67.5m head)

TCTA / DWS - MOKOLO CROCODILE WATER AUGMENTATION PROJECT



Mokolo Booster Pump Station (109MI/Day)



Mokolo High Lift Pump Station (109MI/Day at 245m head)

TCTA / DWS - OLIFANTS RIVER WATER RESOURCES DEVELOPMENT PROJECT



Steelpoort High Lift Pump Station (150MI/Day at 326m head)



Lebalelo High Lift Pump Station (25MI/Day at 365m head)

DWS - INYAKA WATER TREATMENT WORKS PROJECT (100MI/Day)



Inyaka Water Treatment Plant in construction phase (100MI/Day) - Aerial View



Raw Water Pump Station (1 of 4 lines) 124MI/Day at 130m head



Chemical Dosing Installation



Filter Floor (1 of 32)

SASOL MINING - SYFERFONTEIN COLLIERY STREAM DIVERSION PROJECT



Tweedraaispruit Stream Diversion Pump Station – (Total Output 5.1m³/s)

LEPELLE NORTHERN WATER - OLIFANTSPOORT WTW



High Lift Pump Station, Five multi-stage pumps (65MI/Day at 351m head)