HEJ

COMPANY PROFILE

2024-2025

Providing turnkey solutions in the fields of Construction, Agriculture and Engineering means offering comprehensive services that cover all aspects of a project from start to finish. This includes planning, design, procurement, construction, installation and maintenance. Clients can rely on HEJ to handle all aspects of their project, streamlining the process and ensuring seamless coordination between different stages.

CONSTRUCTION . AGRICULTURE . ENGINEERING

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ABOUT **US**

H.E. Jackson, founded in 1923 by Major Herbert Edward Jackson, has a rich history of providing Construction and Agriculture Services in the Southern African Region.

Over the years, the company has evolved and grown to become a leading player in the industry, offering turnkey solutions in the Civil Construction and Agriculture Networks, building a strong reputation for delivering high-quality projects on time and within budget. Amongst its core services, H.E. Jackson has the capabilities to undertake Infrastructure Projects with a specific focus on the Renewable Energy Sector.

With a commitment to excellence and a track record of successful projects, H.E. Jackson continues to be a trusted partner for clients looking for innovative turnkey solutions in the Southern African Region.

WELCOME **MESSAGE**

Welcome to our company profile!

As the Managing Director of H.E. Jackson Engineering, I am thrilled to introduce you to our services and capabilities. With a strong focus on quality, efficiency and innovation, we strive to deliver exceptional results for our clients in the construction and agriculture sectors.

In addition to our core services, we are proud to announce that we have several dealerships that cater to the agricultural sector. Our partnerships with leading suppliers allow us to provide top-of-the-line equipment and solutions to meet the unique needs of farmers and agricultural businesses.

I invite you to explore our profile further to learn more about our company and the range of services we offer. Thank you for considering us for your next project or business needs. We look forward to the opportunity to work with you.

Best regards

Paul Munton-Jackson

OUR VISION

H.E. Jackson Engineering strives to achieve excellence in project execution, reliability, safety and operational efficiency. We relentlessly pursue new opportunities, capitalizing on synergies in all sectors of the economy. We consistently enhance our competitiveness and deliver profitable growth.

OUR MISSION

Elevating our employees and investing in cutting-edge equipment, we strive to deliver top-tier services in construction, agriculture and engineering industries to the entire Southern African Region.

HEJ

MEET
OUR TEAM

Paul Munton-Jackson
Managing Director

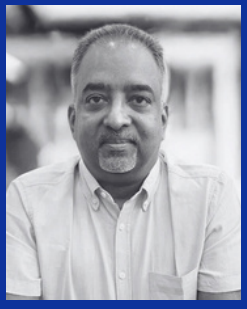
Paul is a highly experienced Civil Engineer and brings a wealth of knowledge and expertise to the business, having worked extensively throughout Southern Africa on various Civil Construction projects, as well as Irrigation and Water Supply Networks. He is also a qualified commercial diver, adding a unique skill set that enhances his ability to tackle water supply projects from a different perspective.

Mirriam Munton-Jackson
Admin & Marketing Director

Mirriam is responsible for managing the company's website and all digital and social marketing efforts. Through her expertise in design HEJ is able to showcase the company's products and services. In addition, she actively develops and campaigns across various digital platforms to drive brand awareness and engagement.

Arosh Paloth
Contracts Director

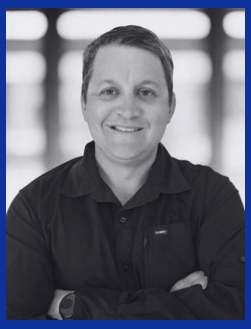
Arosh is a highly skilled Civil Engineer and holds a certification in Project Management (PMP). With over 22 years of experience in the industry, Arosh has dedicated more than a decade to project management, specializing in Water Supply, Irrigation and Solar Power Plants. His expertise has been honed through extensive work in rural areas of Malawi and Zambia.



George Mathukutty
Zambia Director

George is a qualified Management Accountant with vast experience in financial management and general administration in the construction industry. He is the resident director of the company that is based in Lusaka and coordinates the Zambia operations.

MEET
OUR TEAM



Gareth Wright
Operations Manager

Gareth is a highly experienced professional with a Bachelor of Commerce (BCom) degree in Logistics Management. With over a decade of experience in the logistics and supply chain industry, he has honed his skills in Operations, Transportation, Fleet and Supply Chain Management. Gareth is dedicated to leading teams to achieve optimal results, focusing on reducing operational costs and improving efficiency in operations.

Arie Veen
General Manager

Arie has a BA (AgMan) and has a vast amount of experience in the agricultural industry ranging from commercial irrigation developments, agricultural and logistical operations, as well as renewable energy projects and engineering. He has worked as far afield as the United Kingdom and then locally in the Southern African Region, namely South Africa and Malawi.

Anthony Nelson
Financial Manager

Anthony is a highly qualified accountant with a Bachelor of Accounting Science. With a wealth of experience in the logistics industry across Central and Southern Africa his expertise in financial management, budgeting and reporting as well as his dedication to accuracy and attention to detail, ensure that financial operations run smoothly and efficiently.

Grayson Sambara
Malawi EHS Manager

Grayson Sambara is an experienced Health, Safety & Environmental Manager with a demonstrated history of working in the Mining, Construction and Oil &
Gas industry. He is a highly capable operations professional with a certificate focused in Hazard Identification and Risk Assessment and Incident Investigation.

Tim Bertrand
Regional Manager

Tim has a Masters in Mechanical Engineering (M.SC.Eng). With expertise in Business Process Improvement and Engineering Management, he brings strong interpersonal attributes to the team. Tim's creative problem-solving abilities make him a valuable asset to the company, ensuring successful project outcomes in the region.

Bright Hunzvi
Workshop Manager

Bright has a Technician Certificate in Mechanical Engineering (2002), a diploma in Mechanical Engineering (2004) and a Bachelors Degree in Mechanical Engineering (2008). He has a wealth of experience from working with the company in Zimbabwe, mostly on projects within the Water Supply and Irrigation sector. He is now based in Malawi and oversees and manages our in house steel fabrication workshop.

Mulloh Sichinga
Engineering Manager

Mulloh is a qualified Mechanical Engineer (1993). He brings a wealth of knowledge to the team and his Mechanical Engineering expertise is unsurpassed in Malawi. He is a long serving member of HEJ, operating mostly in the Southern Region of Malawi to date.

Anthony Chizenda
Site Manager

Anthony Chizenda has a National Certificate in Electrical Engineering and a Bachelors Degree in Water and Sanitation, H.I.T. He brings a wealth of experience of over 25 years in turnkey projects, working in the Southern African Region in water reticulation, sanitation, water treatment plants and irrigation projects.

Brandon Harvey
South Africa HR

Brandon Harvey provides expert advice and guidance to H.E. Jackson Engineering. helping the company navigate complex HR issues, improve employee relations, and optimize their workforce. His tailored solutions and strategic approach have proven invaluable in driving the company's success and growth.

AN OVERVIEW

TURNKEY SOLUTIONS:

The company is capable of managing and completing all aspects of Construction and Agriculture Projects, from start to finish. This includes not only the construction and installation works, but also coordinating all necessary resources, managing subcontractors, and ensuring that the project is completed on time and within budget. By offering turnkey contracts, HEJ can provide a seamless and efficient solution for clients, taking the stress and hassle out of managing complex projects. This comprehensive approach allows us to deliver high-quality results and meet the needs of our clients effectively.

ENGINEERING AND DESIGN:

Our in-house engineering and design wing plays a crucial role in providing comprehensive support for all project-related design and detailing works thus enabling us to handle a wide range of tasks, including heavy steel design and fabrication.

In addition to design, our team also handles detailing works, ensuring that every aspect of the project is carefully planned and executed. This includes creating detailed drawings, specifications, and material lists to guide the fabrication process. This ultimately leads to a more efficient and cost-effective project delivery, benefiting both our clients and our company.

EQUIPMENT SALES:

Our supply chain network is extensive and well-established, allowing us to source a diverse range of products from various suppliers around the world. This enables us to offer our customers competitive prices on a wide selection of items, including construction and agricultural equipment. Whether you are in need of heavy machinery for a construction project or farming equipment for your agricultural operations, we can provide you with high-quality products at prices that fit within your budget. Our team works tirelessly to ensure that we can meet the needs of our customers and provide them with the best possible value for their money. Trust us to be your reliable partner in procuring and supplying the equipment you need to get the job done efficiently and effectively.

OUR SERVICES

CONSTRUCTION . AGRICULTURE . ENGINEERING

CONSTRUCTION DIVISION:

At HEJ, we are committed to innovation and excellence in the Construction Industry, providing comprehensive turnkey solutions across the following critical sectors:

Water Supply and Treatment

HEJ handles everything from the initial design to the construction and ongoing maintenance of the treatment plants, pump stations and associated infrastructure that include the following services:

- Construction of surface water Intake structures / raw water pump stations
- Construction of water retaining structures associated with treatment plants
- Construction of treated water pump stations
- Installation of dosing systems
- Installation of large diameter conveyance line in steel / HDPE (up to 1100mm)
- Installation of distribution network
- Installation of ground / elevated pressed steel tanks
- Installation of pumps, panels, cabling and all other associated electromechanical works
- SCADA / Telemetry

Renewable Energy Systems

HEJ excels in renewable energy, focusing on civil and mechanical work for Solar PV Plants and Wind Farms. We also specialize in fabricating and installing large steel penstock pipes for Hydroelectric Projects. Our services include the following:

- Clearing, grubbing and land levelling for solar PV farms
- Installation of piles by ramming / drill & grout
- Installation of tracker system
- Installation of PV modules
- Construction of roads, drains and building works associated with the plant

Infrastructure Projects

We have experience in Infrastructure Development Projects including Substations, Transmission Lines and School Construction. Our partners include USAID, Palladium, JCM Power, and Voltalia. We have experience in building the following:

- Construction / Rehabilitation of Substations (400KVA)
- Civil works for Transmission Line (132 & 400KV)
- Civil works for Distribution Line (33KV)
- Construction of entire School Blocks
- Supply and installation of Pre-Fabricated Classrooms and Clinics

OUR SERVICES

CONSTRUCTION . AGRICULTURE . ENGINEERING

AGRICULTURE DIVISION:

At HEJ, we are committed to providing holistic, professional and sustainable solutions across the agricultural value chain, from land development to irrigation infrastructure. Our clients include smallholder farmers, large scale commercial operations, NGOs and government projects. We deliver tailored solutions with a strong focus on efficiency, productivity and long-term impact. Our expertise includes the following:

Irrigation Systems Design & Implementation

We provide end-to-end solutions for irrigation projects - land surveys, design, supply, installation, and commissioning using world-class technology adapted to local conditions.
We specialise in the following irrigation services:

- Center Pivot Systems - efficient water delivery for large, circular fields. Ideal for commercial grain, fodder, and industrial crops, reducing labor and water use while maximizing yields.
- Overhead Sprinkler Systems - suitable for diverse crop types and field layouts, these systems offer uniform water coverage and flexibility in scheduling and operation.
- Drip Irrigation Systems - highly efficient systems that deliver water directly to plant root zones, reducing evaporation losses and improving water-use efficiency. Ideal for horticulture, orchards, and high-value crops.
- Surface / Flood Irrigation Systems - designed for flat fields and crops requiring deep water penetration. Our flood systems are optimized for water control, reduced runoff, and minimal erosion.

Land Development & Preparation

We carry out full-scale land development projects using our fleet of specialized machinery and expert teams. We specialise in the following services:

- Ripping & Cross Ripping – Deep subsoiling to improve root penetration and water absorption
- Ploughing – Soil inversion to manage residue and create a healthy seedbed
- Harrowing – Breaking up clods and smoothing the field surface
- Ridging – Formation of raised beds for root crops and improved drainage
- Land Levelling – Precision grading using laser/GPS-controlled equipment for uniform irrigation distribution
- Cut & Fill Operations – Earth moving to achieve optimal land profiles for water management and construction
- Earthen Reservoir Construction – On-farm water storage structures for irrigation and livestock use

OUR SERVICES

CONSTRUCTION . AGRICULTURE . ENGINEERING

ENGINEERING DIVISION:

We have our own steel fabrication facilities to cater for the demands of our projects and external clients, which makes us cost effective. It is a cornerstone of innovation and technological excellence in the industrial sector. We pride ourselves on delivering top-tier engineering solutions with unmatched precision and efficiency.

Our Expertise

Steel Fabrication
We excel in structural steel fabrication, using cutting-edge techniques and equipment to ensure strength and accuracy in construction, heavy machinery and infrastructure.

Design and Installation
Our custom design and installation services guarantee optimized performance and sustainability. We specialize in large bore pipelines, industrial ducting systems, and machinery for sectors like tobacco processing.

Precision Machining
Our division stands out in precision machining, particularly CNC plasma cutting, enabling us to craft intricate metal shapes and designs with high accuracy.

Pipeline Fabrication and Installation
We handle both fabrication and installation of large bore pipelines, crucial for utility and industrial facilities needing dependable pipeline systems.

Humidification Systems
We create advanced humidification systems tailored to the specific requirements of our clients, emphasizing air quality and moisture control.

Metal Forming and Welding
Offering extensive metal forming services including rolling, bending, and specialized MIG and TIG welding, we ensure robust and lasting industrial applications.

Additional Manufacturing Solutions
We provide manufacturing solutions ranging from tobacco handling and processing machinery to trailer, trolley and bowser fabrication, as well as concrete shutter mold production.

OUR SERVICES

CONSTRUCTION . AGRICULTURE . ENGINEERING

EQUIPMENT SALES:

Beyond our core offerings, HEJ is equipped to supply a wide array of equipment necessary for any construction or agricultural project. Thanks to our extensive supply chain network, we can procure and supply a diverse range of items at highly competitive prices. This includes everything from construction machinery to specialized agricultural equipment, all designed to enhance the efficiency and productivity of any operation.

CASE IH AGRICULTURE · DEZZI · AGRICO More than 100 years of service · JAIN Jain Irrigation Systems Ltd. Small Ideas. Big Revolutions.® · RovicAfrica · ROTRIXAFRICA MECHANISED IRRIGATION SYSTEMS · MONOSEM · KSB · AJAX MAKES CONCRETE SENSE · AVR · Piket Implements · weg

PARTNERSHIPS:

HEJ is a distributor of the following brands making any project the company undertakes an entirely turnkey operation:

GRUNDFOS ALLDOS · EPNS · Smart Fog Humidity For Life · ABECO TANKS · YANGTZE SOLAR

FEATURED PROJECTS

Discover HEJ's diverse range of turnkey projects across the following sectors of **Construction** and **Agriculture**.

Get to know our capabilities and expertise by exploring our list of comprehensive projects below, listed in order of completion.

CONSTRUCTION
PROJECT

NYIKA-VWAZA GRAVITY FED PIPED WATER SUPPLY SCHEME

Name	Construction of Nyika-Vwaza Gravity Fed Piped Water Supply Scheme
Location	Nyika & Vwaza, Rumphi District, Malawi
Contract Sum	US$ 4,776,655.09
Contract Duration	20th April 2023 – 15th June 2025
Client	Peace Parks Foundations
Consultants	EMD consulting Engineers
Funded by	KfW

Description of the work:

Project was for the construction of a potable water supply scheme for the communities living close to the national parks of Nyika and Vwaza. The project was conceived under the Malawi-Zambia Transfrontier Conservation Programme and was funded by KfW. Peace Parks Foundations, from South Africa, represented the Client.

Main features of the project are:

1. Construction of an intake structure across a river 23km inside into the Nyika national park
2. 26Km of transmission main, majority of it passing through the protected areas in the national park
3. Construction of a conventional water treatment plant with sedimentation tanks, slow sand filters etc.
4. Construction of 3 numbers of RCC storage reservoirs
5. A total of 127km of distribution and transmission network comprising of uPVC and GI pipes of diameter varying from 40mm to 200mm
6. Construction of 121 numbers of Communal Water points
7. Construction of 2 numbers of Scheme buildings

The Scheme was implemented under strict guidelines of Environmental & Social Management plans especially on protecting the flora & fauna of national park.

CONSTRUCTION
PROJECT

MZENGA IRRIGATION SCHEME

Name	Construction of Mzenga Irrigation Scheme in Nkhata Bay District
Location	Mzenga, Nkhata Bay, Malawi
Contract Sum	US$12,470,033.29
Contract Duration	1st June 2023 – 15th May 2025
Client	Ministry of Agriculture, Government of Malawi
Consultants	KRC consultants/DASAN/L GRAVAM
Funded by	IFAD

Description of the work:

Project was for the construction of 1060Ha flood irrigation system in Mzenga, Nkhata Bay District of Malawi. The project was part of Programme for Rural Irrigation Development (PRIDE) Ministry of Agriculture, Malawi and was funded by the International Fund for Agriculture Development (IFAD).

Main features of the project are as given below:

1. Construction of a weir and intake structure at Luweya River
2. 17km of conveyance line which included 900mm and 800mm HDPE / steel pipes
3. 105 km of irrigation pipeline comprising of uPVC/Steel pipes with diameter varying from 110mm – 400mm
4. Construction of 6 nos of concrete lined Night Storage Reservoirs (NSR)
5. Construction of Flood Protection System
6. Installation of Valves / Flow Meters and Construction of Chambers
7. Construction of Scheme Building

The project involved a total of roughly 6,000cum of Reinforced Cement Concrete and 200,000cum of excavation for NSRs and benching works for conveyance line.

AGRICULTURE

PROJECT

PARAM FARM WATER SUPPLY

Name	Param Farm Water Supply
Location	Chipoka, Salima District, Malawi
Contract Sum	MWK 350,952,346.20
Contract Duration	10 Weeks - 2025
Client	Param Farm
Funded by	Param Farm

Description of the work:

3 x 250mm diameter pipelines of which 400m of HDPE is on land and 330m of galvanised pipes are directly into Lake Malawi, complete with 3 x 250mm Flow tech Foot Valves.

CONSTRUCTION
PROJECT

MOZAMBIQUE-MALAWI INTERCONNECTION (MOMA) PROJECT - SUBSTATION AND OHL WORKS

Name	Mozambique-Malawi Interconnection (MOMA) Project - Substation works
Location	Phombeya, Malawi
Contract Sum	$ 744,000
Contract Duration	April 2023 - December 2024
Client	L&T Construction Limited, India
Funded by	World Bank and KfW

Description of the work:

H.E. Jackson was contracted by L&T Construction Limited, India for extension of 400/132 KVA Substation in Phombeya as part of the Mozabique-Malawi Interconnection (MOMA) Project. Works included construction of an additional bay comprising of a transformer foundation, reactor foundation, 194nos of equipment foundations, 11 gantry foundations and total of 900m of cable trench of various sizes. Structural steel works for the transformer and reactor foundations were also part of the scope. Contract value was at $ 744,000 and the funding was from World Bank/KfW and the beneficiary is ESCOM.

Name	Mozambique-Malawi Interconnection (MOMA) Project - OHL works
Location	Phombeya, Malawi
Contract Sum	$ 786,604.00
Contract Duration	April 2023 - August 2024
Client	L&T Construction Limited
Funded by	World Bank and KfW

Description of the work:

OHL works: H.E. Jackson was awarded the civil works for construction of 400KV tower foundation by L&T Construction Limited as part of the Mozambique-Malawi Interconnection (MOMA) Project. This was part of the roughly 77Km of OHL originating from the Phombeya Substation and crossing over to Mozambique. H.E. Jackson completed the 25Km stretch comprising of a total of 52 foundations as part of the project. Works included excavation for foundations including in rock, stub setting, reinforcement and shuttering works and concrete for foundation and chimney of the tower. Contract value stood at $786,604 and the works were completed and handed over in August 2024. Funding was from World Bank / KfW and the beneficiary is ESCOM.

PROJECT PHOTOGRAPHS:

Substation Works

OHL Works

CONSTRUCTION
PROJECT

RIETKLOOF WIND FARM

Name	Rietkloof Wind Farm
Location	Matjiesfontein, Western Cape, South Africa
Contract Sum	ZAR 22,321,162.96
Contract Duration	7 months - Nov 2023 to July 2024
Client	BESAMANDLA (Pty) Ltd
IPP	Red Rocket
Design Engineer	Innovation Expand

Description of the work:

The Euronotus Wind Cluster Wind Farm projects consist of 2x 140 MW wind farm sites namely Brandvalley and Rietkloof Wind Farms consisting of 32 x WTG`s each located in the region of the towns of Sutherland (Northern Cape) and Matjiesfontein (Western Cape), South Africa. BonEspirange will facilitate the connection of the two wind farms. The scope includes the construction of the new Rietkloof 132kV switching station where the project will integrate. This project will be constructed as part of a self-build contract and handed over to Eskom on construction completion.

HE Jackson's scope consisted of the construction of the new RietKloof 132kV switching substation Balance of Plant works:

1. Install 6 x 132kV isolator foundations
2. Install 3 x 132kV breaker foundations
3. Install 15 x medium equipment support foundations for CT's, VT's
4. Install 4 x medium equipment support foundations for incoming line terminal 6m support structures (inc OPGW)
5. Install 4 x 132kV Busbar Foundations
6. Install 6 x 21m Lighting Mast
7. Install 2 x 14m Lighting Mast
8. Install Control Cable Trenches (Including Ramps)
9. New Transforma Plinths and Slip Ways
10. New Concrete Roads and Parking Bays
11. New IPP Switching Room Building
12. New Escom Control Room Building
13. New IPP Switching Room Building
14. New 550M2 IPP Operations and Maintenance Building
15. Install Fence and Kerbing
16. Install 1 x Gate Ramps
17. Install Yard Stone
18. Level and Compact Platform and Install Drainage
19. Install Control Cable Trenches (Including Ramps)
20. New Transforma Plinths and Slip Ways
21. New Concrete Roads and Parking Bays
22. New IPP Switching Room Building
23. New Escom Control Room Building
24. New IPP Switching Room Building
25. New 550M2 IPP Operations and Maintenance Building
26. Install Fence and Kerbing
27. Install 1 x Gate Ramps
28. Install Yard Stone
29. Level and Compact Platform and Install Drainage

PROJECT PHOTOGRAPHS:

CONSTRUCTION
PROJECT

MAULA WATER SUPPLY SCHEME

Name	Maula Water Supply Scheme
Location	Nkhata Bay, Northern Region, Malawi
Contract Sum	MK 3,274,785,018.07
Contract Duration	Dec 2022 - March 2024
Client	Northern Region Water Board, Malawi Government
Consultant	Northern Region Water Board
Funded by	OPEC / AfDB and Malawi Government

Description of the work:

HEJ was awarded the works for Construction of Water Supply system to Maula and surrounding areas in Nkhatabay district by Northern Region Water Board, Malawi, with contract number NRWB/NB/W03. The Contract was awarded on 8th December 2022 and the contract value was MK 3,274,785,018 .07. Contract completion and hand over was done in March 2024.

Major works in the contract included the following:

1. Construction of a booster sump and station.
2. Supply and installation of 300cum pressed steel tank.
3. Supply and installation of booster pumps, panels, surge vessel with all related electro mechanical works.
4. Supply and installation of a total of 70,407m of uPVC and DI pipes of diameter varying from 63mm - 250mm.
5. Construction of communal water points and sanitation centres.

CONSTRUCTION
PROJECT

MANGOCHI POTABLE WATER SUPPLY SCHEME

Name	Mangochi Potable Water Supply Scheme (Design Built)
Location	Mangochi, Malawi
Contract Sum	$2,610,932.71
Contract Duration	August 2022 - July 2023
Client	Plem Construction Limited / SRWB
Consultants	Mr Mohan Krishnan, Managing Director
Funded by	BADEA

Description of the Work:

1. Engineering, Procurement, Installation and Commissioning of Mangochi Water Supply
2. Pipe Bridge 300m into Lake Malawi
3. Installation of Submersible Raw Water Pumps
4. Multistage Hi Lift Pumps
5. Automated Pressure Sand Filters
6. Alum and Chlorine Dozing Systems
7. Scada and Telemetry

CONSTRUCTION
PROJECT

20MW SOLAR PV PLANT & BESS

Name	Construction of 20MW Solar PV Plant and BESS
Location	Golomoti, Dedza District, Malawi
Contract Sum	$ 2,867,432
Contract Duration	June 2021 - Dec 2021
Client	JCM Matswani Solar Power Corporation
Consultants	Zutari
Funded by	Infraco Africa

Description of the work:

Project was for the construction of 20MW Solar PV Plant and BESS System at Golomoti, Malawi for JCM power.JCM power is an independent Power Producer(IPP) and developer of renewable energy projects. H.E. Jackson Engineering was contracted for executing Civil, Piling and Mechanical jobs in the plant. HEJ also constructed and maintained the office and camp facilities at the site. Main features of the project are as given below:

1. 57 ha land preparation including cutting of trees, bush clearing, grading and compaction of blocks
2. Drilling 300mm dia X 1.70m deep holes for pile installation
3. Installation and grouting of piles (8651 nos)
4. Installation of single axis trackers (625 nos)
5. Installation of 540w solar modules (56,000 nos)
6. Construction of internal roads and drainage
7. Construction of main channel of diverting storm water
8. Installation and running of camp facilities like office blocks, accommodation units (65 people) etc.
9. Drilling of boreholes and installation of water pumps
10. Security fencing (2.4m high) and temporary fencing

CONSTRUCTION
PROJECT

60MW SOLAR PV PLANT & BESS

Name	Construction of 60MW Solar PV Plant
Location	Salima District, Malawi
Contract Sum	$ 4,145,706.84
Contract Duration	Aug 2020 - May 2021
Client	JCM Matswani Solar Power Corporation
Consultants	Zutari
Funded by	Infraco Africa

Description of the work:

Project was for the construction of 60MW Solar PV Plant at Salima, Malawi, for JCM Power. JCM Power is an Independent Power Producer (IPP) and developer of Renewable Energy Projects. H.E Jackson Engineering was contracted for executing Civil, Piling, and Mechanical jobs in the plant. HEJ also constructed O&M Building, Warehouse etc for JCM. Main features of the project are as given below:

1. 65 ha land preparation including cutting trees, bush clearing, grading and compaction of blocks
2. Drilling 300mm dia x 2.0m deep holes for pile installation
3. Installation and grouting of piles (13,550 no's)
4. Installation of single axis trackers (2,440 no's)
5. Installation of 380W Solar Modules (195,200 no's)
6. Construction of internal roads and drainage
7. Construction of main channel for diverting storm water
8. Drilling of boreholes and installation of water pumps
9. Security fencing (2.4m high) and temporary fencing
10. Construction of O&M building
11. Construction of access road to site

CONSTRUCTION
PROJECT

GOLOMOTI CIVIL & STRUCTURAL WORKS FOR SUBSTATION

Name	Civil and Structural works for Substation works in Golomoti
Location	Golomoti, Dedza District, Malawi
Contract Sum	$ 711,695.57
Contract Duration	June 2021- Dec 2021
Client	Opti-Power (Division of Murray & Roberts)
Consultants	Zutari
Funded by	Infraco Africa

Description of the work:

The Contract was for the construction of Civil and Structural works for Opti power who was the electrical contractor for JCM Power in Golomoti project.HEJ offered Opti power whole range of civil and structural erection works including construction of switch gear room and O&M building .Main works involved are listed below.

1. Construction of IPP substation and ESCOM substation extension
2. Bulk earthworks for the substation platform
3. Supply of concrete and construction of foundations
4. Installation of various steel structures including lighting masts and Gantries
5. Construction of cable trenches in substation
6. Construction of switch gear room and O&M building
7. Substation security fencing for both IPP and ESCOM extension
8. Supply and installation of yard stone
9. Excavation and backfilling of cable trenches
10. Erection of diamond fence around substation

AGRICULTURE

PROJECT

SMALL SCALE SOLAR POWER DRIP IRRIGATION SCHEMES IN 7 DISTRICTS

Name	Contruction of Small-Scale Solar Power Drip Irrigation Schemes (7 Districts)
Location	Lilongwe, Dowa, Nchisi, Mchinji, Kasungu, Dedza & Ntcheu (Malawi)
Contract Sum	$ 2,688,572.19
Contract Duration	26th June 2019 - 15th Feb 2021
Client	Malawi Government, Department of Irrigation
Consultants	MDRRP
Funded by	World Bank

Description of the work:

This Pilot project was initiated under Malawi Draughts Recovery and Resilience Programme (MDRRP) under World Bank Funding. The Department of Irrigation was the executing agency.
The scope of the works was to construct a total of 14 small scale solar powered drip irrigation schemes in 7 districts in Malawi under community participation.The source of the schemes was either surface water or ground water by means of drilling boreholes.
Main features of the project are as listed below:

1. Design, supply and installation of drip irrigation schemes
2. 152 ha land preparation
3. Installation of uPVC pipes with diameter varying from 40mm to 250mm for mains and submains.
4. Construction of pumphouse and installation of centrifugal pumps
5. Drilling of boreholes and installation of submersible pumps.
6. Construction of solar yard for powering the pumps
7. Installation of solar inverters and all associated electrical works
8. Installation of drip
9. Installation of online filters
10. Installation of block hydrant valves ,PRVs,butterfly valves and flowmeters

CONSTRUCTION
PROJECT

PRE-FABRICATED CLASSROOMS & PIT LATRINES

Name	Construction of Pre-Fabricated Classrooms & Pit Latrines
Location	Blantyre, Lilongwe, Mzuzu and Zomba (Malawi)
Contract Sum	$ 5,255,831.00
Contract Duration	September 2019- Feb 2021
Client	USAID
Consultants	Tetratech
Funded by	USAID

Description of the work:

Project was for the construction of 48 classrooms and male and female pit latrines in 30 secondary schools in 4 districts. The project was funded by USAID and Tetratech was the oversight consultant. FEPS GmbH was the main contractor and H.E Jackson Engineering and SBS (Zimbabwe) were the sub-contractors. H.E Jackson Engineering did all the Civil Works under the contract and SBS did installation of Pre-Fab Structures. The main features of the project are as follows:

1. Design, supply and installation of prefabricated classrooms and pit latrines
2. Construction of 48 classrooms in 30 locations (4 districts)
3. Construction of the Foundation for Mounting Pre Fab Structures
4. Supply and Installation of Pre Fab Classrooms
5. Construction of Drainage System
6. Construction of steps, ramps etc for access
7. Supply and installation of furniture like desks, chairs, chalk boards etc
8. Construction of Male and Female Latrines
9. Erosion Protection Works like Terracing of Land and Stone Pitching
10. Provision for Connection to ESCOM

CONSTRUCTION
PROJECT

MULANJE HYDRO – PHASE 1 (NDIZA) & PHASE 2 (RUO)

Name	Mulanje Hydro - Phase I (Ndiza) and Phase II (Ruo)
Location	Mulanje, Malawi
Contract Sum	$ 765,701.33
Contract Duration	12 months (September 2018- September 2019)
Client	Mulanje Hydro Ltd
Consultants	Mulanje Hydro Ltd
Funded by	Nangwenya Renewable Energies Ltd, Zimbabwe

Description of the work:

Scope was to fabricate 900mm and 1200mm pipelines for Mulanje Hydro Phase I and II.Main tasks involved were bending of plates to make barrels ,joining of barrels to make 12m long pipes ,welding pipes using sub arc machine ,sand blasting of pipes and painting. A total 2700m of 900mm pipes and 4900m of 1200mm pipes were fabricated as part of the project. Main activities carried out are listed below.

1. Bending plate using plate bending machine to form barrels.
2. Joining of barrels to get 12m long pipes
3. Root welding pipes from inside
4. External welding of pipes using sub arc machine
5. Sand blasting of internal and external surfaces of pipe
6. Spray painting of internal and external surfaces of pipes to 250 microns DFT
7. Testing of pipes using Ultrasonic flaw detector to ensure quality.
8. Supply of 900mm and 1200mm flanges of pressure ratings PN 25,PN 40 and PN 60.
9. Fabrication of manhole risers and scours for pipeline

CONSTRUCTION
PROJECT

LIKHUBULA WATER SUPPLY SCHEME

Name	Likhubula Water Supply Scheme under Blantyre Water Board
Location	Nguludi, Malawi
Contract Sum	$ 194,319.36
Contract Duration	6 months (1st January 2019 – 30th June 2019)
Client	Plem Construction Ltd
Consultants	Blantyre Water Board Project office
Funded by	EXIM Bank of India

Description of the Work:

Complete Installation of Electro Mechanical Equipment for the 20MLD Water Treatment Plant at Nguludi. The project is EXIM Bank of India funded $ 23.5 million Water Supply Project, which brings water from Mulanje mountains to Blantyre City. The main features of the project are an Intake at Mulanje, 43Km of Gravity pipeline, 20MLD Treatment Plant, 11Km of Transmission Main and a 5000cum storage tank at Mpingwe. Major works performed by H.E. Jackson Engineering are listed below:

1. Installation and alignment of 3 X 750Kw high lift pump set with motor
2. Installation of 3 x back wash pump set with motors
3. Installation of 11 KV HT panel
4. Installation of LT panel with motor control centers
5. Installation of 2 x 1250KVA Transformers
6. Installation of 1 x 1250 KVA Generator
7. Installation of one 8T and one 2T electrically operated overhead gantry cranes
8. Installation of 2 x blowers to assist backwash
9. Installation of all interconnecting pipelines, valves and gates
10. HT & LT cabling, glanding and termination, earthing and lightning arrestor
11. Installation of fire alarm system
12. Commissioning and test run of the entire system

AGRICULTURE

PROJECT

LIFUWU RICE IRRIGATION SCHEME

Name	Lifuwu Rice Irrigation Scheme
Location	Salima, Malawi
Contract Sum	Euros 1,650,000.00
Contract Duration	20 Months (July 2017 - March 2019)
Client	Cooperazione Internazioanl (COOPI)
Consultants	Agricane Malawi
Funded by	European Union

Description of the work:

Contract was for construction of Lifuwu Rice Irrigation Scheme for the Ministry of Agriculture, Malawi. It included the construction of a pump house, raw water and transmission lines, primary, secondary and tertiary canals. It included the construction of a fishpond as well. Main features of the project are as listed below:

1. 180Ha of land preparation
2. 800mm raw water line going 300m deep into Lake Malawi
3. Consruction of pump house
4. Construction of fish pond
5. Construction of canal system for irrigation
6. Construction of night storage reservoir
7. Installation of raw water pumps
8. All electro mechanical activities related to pump house
9. Intallation of transformer and ESCOM power connection
10. Installation of a rice mill

CONSTRUCTION
PROJECT

PRE-FABRICATED CLINICS

Name	Construction of Pre-Fabricated Clinics for Ministry of Health
Location	Blantyre, Malawi
Contract Sum	$ 2,742,376.00
Contract Duration	September 2018 - March 2019
Client	USAID
Consultants	Tetratech
Funded by	USAID

Description of the work:

Project was for the construction of 22 health centers in 18 locations in the Blantyre District. The Health Centres were constructed under PEPFAAR Programme and will provide additional facilities for HIV treatment.

The main features of the project are as follows:

1. Construction of PreFab health centre on concrete base slab
2. Health center included registration room, doctors room, treatment room, pharmacy etc
3. Construction of pit latrines for the facility
4. Supply of furniture

CONSTRUCTION
PROJECT

REHABILITATION OF TREATMENT WORKS & PUMP STATIONS

Name	Rehabilitation of Treatment Works and Pump Stations under Lilongwe Water Board (In JV with Plem Construction)
Location	Lilongwe, Malawi
Contract Sum	Euro 5,910,000.00
Contract Duration	23 Months (June 2012 - May 2014)
Client	Lilongwe Water Board
Funded by	European Investment Bank

Description of the work:

The Contract was for the rehabilitation and expansion of the existing water treatment plant and pumphouse for Lilongwe Water Board. Works included construction of new storage tanks, replacement of existing pumps and control panels, replacement of valves, repairing of existing structures and storage tanks and interconnection pipeline.

Some of the works executed by HEJ are outlined below:

1. Replacement of vertical turbine pumps at RWPS
2. Replacement of split case centrifugal pumps at TWPS
3. Installation of new control panels for raw water PS and TWPS
4. Replacement of valves and flow meters
5. Interconnection pipelines
6. Installation of electric overhead gantry crane

CONSTRUCTION
PROJECT

CHITIPA WATER SUPPLY

Name	Chitipa Water Supply under NRWB (In JV with Plem Construction)
Location	Chitipa, Malawi
Contract Sum	$ 11,794,418.00
Contract Duration	14 Months (July 2015- December 2016)
Client	Northern Region Water Board
Consultants	Metaferia Engineering Consultants
Funded by	BADEA

Description of the work:

The Scope of the works included construction of an intake weir, pump station, installation of 53KW pumps and associated pipelines. Pipe line consisted of MS, DI and uPVC pipes from sizes 90mm to 350mm. It also included construction of RCC reservoirs and an administration building. The project was executed in Joint Venture with Plem Construction Ltd and the major works executed by HEJ is as given below:

1. Rehabilitation of existing pumphouse
2. Supply and installation of new 53KW pumps with motors
3. Supply and installation of LT panel with motor control centers
4. Supply and installation of air blowers for backwash
5. Supply and installation of backwash pumps
6. Supply and installation of all interconnecting pipelines, valves, gates etc.
7. Supply and installation of power and control cabling and earthing
8. Supply and installation of instrumentation system for treatment plant
9. Testing, commissioning and trial run of the treatment plant

AGRICULTURE

PROJECT

CHIKWAWA GREEN BELT IRRIGATION SCHEME

Name	CHIKWAWA GREEN BELT IRRIGATION SCHEME
Location	Salima, Malawi
Contract Sum	$ 12,664,000
Contract Duration	22 Months (May 2012- February 2014)
Client	Salima Sugar Company
Consultants	Agricane, Malawi
Funded by	World Bank

Description of the work:

Supply and Installation of 830 ha small holder sugar cane irrigation scheme, main and booster pump stations structures and electrical / mechanical supplies, bulk water and distribution water supply pipelines, earthen balancing dam, internal overhead electrical transmission lines and stepup/stepdown transformers. All land preparation including bush clearing and ripping, drainage, internal road infrastructure and center pivot tracks. The Project was done in JV with Plem Construction Ltd. Other important features of the project are:

1. uPVC and MS pipes varying from 900mm to 63mm in diameter
2. Irrigation Scheme with 830Ha land preparation
3. Installation of 830Ha Centre Pivot and overhead sprinkler irrigation
4. Installation of butterfly valves, gate valves, Pressure regulating valves, check valves, air valves etc.
5. Installation of 900mm steel pipe for a length of 5Km
6. Intake in Lake Malawi with below lake level intake structure including under water diving, pipe and intake installations use of Barge etc.
7. Supply and installation of 900 KW pumps at Intake and Booster pump stations
8. Earthen reservoir of 100,00 m3 Capacity

GET
IN TOUCH

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