

Papua Power Ltd

COMPANY PROFILE



SMART Technologies





PAPUA POWER LIMITED

"SMART TECHNOLOGIES"

Section 47, Lot 06, D'Albertis Street, Konedobu, NCD
P.O Box 175, Water-front, Konedobu 125, NCD, Port Moresby
Phone: +675 71512320 or +675 75362442
Email: enquiries.papuapower@gmail.com

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PROJECTS EXPERIENCES

- All throughout Papua New guinea

Company Name:	Papua Power Limited
Established:	2018
Headquarters:	Port Moresby, Papua New Guinea
Email:	enquiries.papuapower@gmail.com
Industry:	Energy, Electro-Mechanical and Communications
Type:	Private Limited Company

Papua Power Limited;

- A 100% Nationally owned company with registered **IPA № 1-119377** and **Taxpayer Identification Number [TIN] № 501184541**
- Provides services in Procurement, Installation, Commissioning and Maintenance in the Electrical, Mechanical and Communication industries
- Has a focus on Sustainable Energy solutions and Green Technology
- Committed to delivering high-quality and efficient services to its clients
- Has a strong presence in the Papua New Guinea market and aims to expand its operations locally
- Complies with all safety and environmental regulations and promotes responsible business practices
- Offers job opportunities and training programs for local communities to promote economic growth and development
- Holds a strong reputation for reliability and professionalism in the industry.
- Key Personal has more than 15 years experience in the Domestic, Commercial, industrial and Mining industry.
- Projects involved Government and Private entities, country wide

KEY PERSONAL PROJECT EXPERIENCES

- **PROVINCIAL & LOCAL LEVEL GOVERNMENT AFFAIRS – MORAUTA HOUSE**
 - Installation of split air-conditioning units and cassette type air-con units
 - Upgrading of lighting and power circuits for Levels 1 – 5
 - Upgrading of Main switchboard for Levels 1 – 5
- **PNG POWER LTD**
 - Installation of 166 Minimum Supply Kits (MSK) for Boera and Papa villages, Central Province
 - Stringing of LV distribution lines
 - Inspection, Testing and Commissioning
 - Electrical works & Easypay meter installation for Telikom residential flats
 - Easypay meter installations for Hanuabada and Lealea villages, Hagara Primary school and Taurama residential flats - NCD
- **PESTECH ENGINEERING (PNG POWER SUB-STATION-KILAKILA 66/11 kV)**
 - Termination Preparation works for 40 x 630mm² and 16 x 95mm² High Voltage(HV) Power cable terminals
 - Upgrading of all distribution boards and Temporary supply to building
 - Installation of Air-con power and control panels for 18,000 BTU and 24,000 BTU split units
 - Inspection and submission of Intention Notice for 166/11kV Kilakila Sub-Station building, NCD
 - Correcting of defects identified during installation works
- **B-MOBILE EXCHANGE, MT HAGEN**
 - Relocation of 22kv & 66kv Distribution Lines
 - Refurbishment works of Power, Communication & Building structural for B Mobile Exchange building
- **POPONDETA, ORO PROVINCE**
 - Construction of 22kv & 33kv transmission lines
 - Construction of 415/240 LV distribution Lines
 - Electrical inspections for office & residential facilities for ORO Motors
- **OK TEDI MINING LIMITED, WESTERN PROVINCE**
 - Maintenance of 132kV TRANSMISSION Lines
 - Construction & Maintenance of LV & HV Distribution Lines. (11KV – 240V)
 - Aerial Sub-stations (Transformers) Installation & Maintenance of High Voltage Underground Cabling and termination
 - Installation/Maintenance of High and Low Voltage switches

- **NEWCREST MINING, LIHIR, NEW IRELAND PROVINCE**
 - Construction of sub-stations and control room wiring
 - Construction of HV 11kV and LV 415/240 extensions for township and camp areas
 - Installed 3 phase 100kVA distribution transformers for the township and camp areas
 - Extension of 11kV and 415/240 distribution lines from mine power station to mine affected villages and schools

- **SIMBERI MINING, SIMBERI ISLAND, NEW IRELAND PROVINCE**
 - Construction of new HV 22kV and LV 415/240 distribution lines for the mine
 - Installed 3 phase 200kVA distribution transformers for the mine operations

- **ELTECH ENGINEERING, CENTRAL PROVINCE**
 - Solar Street Lighting & Standalone solar household installations
 - Refurbishment of Mechanical and Electrical system for Parliament House, Waigani
 - Installation and Construction of 2 x 2MW diesel gensets for Vision City Mall
 - Installation of 2MW Chiller units for Vision City Mall

- **KRAMER AUSENCO – PORT MORESBY**
 - Refurbishment Electrical Works for Tennis Club, Port Moresby

- **B-MOBILE EXCHANGE LAE, MOROBE PROVINCE**
 - Construction of Telikom 45meter communication towers & all Telecom Equipment (TE) installations
 - Power and Communication systems & Refurbishment works

INTRODUCTION

PAPUA POWER LIMITED was established on the 23rd August 2018 and is 100% Nationally Owned & Operated Electro-Mechanical, Energy and Communications Design and Construction Contracting Firm Specialized in Domestic, Commercial, Industrial and Mining Installations and suppliers of Renewable Energy products.

The increased development investment by the Government and economic growth and the government policy on SME creates opportunities, establishments and growth of small and medium business enterprises.

Therefore, the company has been established to participate in the inclusive economic development within the National Capital District and PNG as a whole in providing quality services of Eco-friendly technologies of rural and urban electrification, long range wireless power transmissions, water treatment, desalination and sewerage plants, design and construction to prospective valued clients and also to create employment opportunities and contributing to the economic development of Papua New Guinea.

The company strives to continue enhancing services delivery, whilst strategically realigning and diversifying to create sustainable business support for future services delivery.

In collaboration with our **International Partners** as Suppliers and Manufacturers of alternative reliable, affordable and eco-friendly energy products focusing on government's rural and urban electrification, the environment and climatically range policies and programs in the country and also for other interested private organizations.

VISION

PAPUA POWER LIMITED aspires to be an acknowledged company for its prudent services, people partnership and performance in supply, design, installation and construction of renewable clean energy products and smart technologies for the company business growth and economic well-being of the country.

Empowering Papua New Guinea through sustainable and innovative energy solutions, Papua Power Limited envisions a future where every community has access to reliable, affordable, and clean energy. We strive to be the leading provider of renewable energy, driving economic growth and enhancing the quality of life for all Papua New Guineans. By harnessing the rich natural resources of our land and fostering partnerships with local communities, we aim to create a resilient energy infrastructure that supports environmental stewardship and social responsibility. Together, we will illuminate the path to a brighter, more sustainable future for generations to come.

MISSION STATEMENT

Our mission is in maximising resource in providing innovative, reliable, accessible, and affordable, and environment eco-friendly energy sources to our valued customers' satisfaction through total commitment in our management and operation in sustenance of the company and profitability for the shareholders.

CORE VALUES

The company aspires to be a performing organization in delivering efficient and effective services from scale to large electrification systems, electro-mechanical design and construction upholding following values;

- Professionalism, Honesty and Integrity
- Sustainability – we prioritize environmentally friendly practices in all operations
- Maintain a close working relationship with our customers
- Ensuring our customer's total satisfaction of our workmanship
- Transparency, participatory and collaborative approach at all levels
- Innovation – We embrace new technologies and ideas to improve our services
- Community engagement – actively support communities in which we operate
- Commitment to timely, safe and quality services to its valued clients
- Stringent compliance to the relevant and applicable laws, regulations, standards and specifications
- Teamwork and Leadership
- Stakeholder Focused

INNOVATION

Papua Power Limited is proud to announce the launch of its innovative Smart Hybrid Grid and Solar Street Lighting System, meticulously designed to meet the diverse needs of all environments across Papua New Guinea, including urban centers, townships, and rural villages. This cutting-edge system integrates advanced artificial intelligence to monitor and manage street lighting remotely from our Main Control Centre in Port Moresby, ensuring optimal performance and energy efficiency.

Our design has been successfully introduced to a manufacturing facility in China, where high-quality samples have been produced. These samples are now being introduced to the market in Papua New Guinea, marking a significant step forward in sustainable energy solutions.

With this initiative, Papua Power Limited is committed to enhancing public safety, reducing energy costs, and promoting environmental sustainability throughout the nation regardless of its geographical challenges.

Local Suppliers

Our local suppliers supply electrical, civil, and building materials essential for the successful completion of our projects within the country. Partnering with local suppliers not only supports the local economy but also ensures timely delivery and adherence to regional standards.

Engaging with local suppliers enhances our project efficiency, reduce lead times, and ensure compliance with local regulations. Establishing strong relationships is crucial for the successful execution of our projects and for fostering a sustainable supply chain within the country.

International Suppliers and Manufacturers

Our network of international suppliers and manufacturers are committed to providing high-quality, innovative products across various sectors. By leveraging their expertise and advanced technologies, we aim to deliver sustainable solutions that meet the evolving needs of our clients.

- **Smart Hybrid Solar & Grid Powered Street Lighting Systems**

Our suppliers specialize in innovative street lighting solutions that integrate solar power with traditional grid systems. They utilize advanced LED technology and smart sensors to optimize energy consumption and enhance public safety therefore, known for their commitment to sustainability and energy efficiency.

- **Air Conditioning systems**

We partner with leading manufacturers that offer a comprehensive range of air-conditioning systems, including RAC, split units, AHU, cooling towers specifically designed for commercial and industrial buildings demonstrating a commitment to quality and innovation in the air-conditioning sector, providing essential support for the effective cooling and ventilations of commercial and industrial buildings with the smart building management system. The diverse offerings ensure that we can meet specific client needs while maintaining efficiency and sustainability in compliance with international and local standards.

- **Smart Power Generators**

Our suppliers offer advanced smart power generators that utilize IoT technology for remote monitoring and management. These generators are designed for both backup and primary power applications, ensuring reliability and efficiency. Our key manufacturers are focused on sustainable energy solutions.

- **Vehicle and Asset Tracking Systems**

Our international suppliers provide state-of-the-art GPS tracking solutions that cater to various industries. These systems offer real-time tracking, Geo-fencing, and advanced analytics delivering reliable and scalable solutions that enhance fleet management and asset security.

- **Smart Security & Surveillance for Facility/Property Management**

We collaborate with top-tier manufacturers specializing in smart surveillance technology. These suppliers offer high-definition cameras equipped with AI capabilities for motion detection, facial recognition, and remote monitoring. Their products are widely used in commercial and industrial settings, ensuring enhanced security and operational efficiency.

- **Water Treatment Systems**

Our suppliers provide a diverse range of water treatment solutions, including filtration, purification, and desalination systems in modular and scalable solutions. These systems are designed for rapid deployment in emergency situations or remote locations, ensuring access to clean water. They are recognized for their innovative technologies and sustainable practices, engineering excellence and reliability catering to both municipal and industrial needs. Our key manufacturers focused on compliance with environmental regulations.

- **Off-Grid, On-Grid, and Hybrid Power Systems**

Our international partners offer a wide range of power generation solutions, from individual home systems to large commercial plants. These manufacturers provide off-grid, on-grid, and hybrid systems that integrate solar, wind, and traditional energy sources. They are recognized for their innovative designs and commitment to renewable energy.

- **Fire Systems - Domestic, Commercial and Industrial**

We work with leading suppliers of fire safety systems, including detection, alarm, and suppression technologies. Our manufacturers are known for their compliance with international safety standards and their focus on innovative solutions for both residential and commercial applications.

KEY PERSONAL

Papua Power Limited pride itself a team of highly skilled technical staff and engineers with over 15 years of experience in the fields of design, material estimation, project management, and implementation. Our personnel are adept at delivering projects within budget and allocated time frames, catering to domestic, commercial, and industrial sectors.

I. **Design Expertise**

Our engineers possess extensive experience in creating innovative and efficient designs tailored to meet client specifications. They are proficient in utilizing advanced design software and methodologies, ensuring that all projects adhere to industry standards and regulations.

II. **Material Estimation**

With a strong background in material science and procurement, our team excels in accurate material estimation. They leverage their knowledge to optimize resource allocation, minimize waste, and ensure cost-effective solutions without compromising quality.

III. **Project Management**

Our project managers are certified professionals with a proven track record in overseeing complex projects from inception to completion. They employ robust project management frameworks, ensuring effective communication, risk management, and stakeholder engagement throughout the project lifecycle.

IV. **Implementation**

The implementation team is skilled in executing projects efficiently, coordinating with various trades and subcontractors to ensure seamless operations. Their hands-on experience in diverse environments allows them to adapt to challenges and maintain project momentum.

V. **Sector Versatility**

Our personnel have successfully managed projects across a wide range of sectors, including residential, commercial, and industrial. This versatility equips

them with the insights needed to address unique challenges and deliver tailored solutions.

VI. **Commitment to Quality and Safety**

Papua Power Limited prioritizes quality and safety in all operations. Our team is well-versed in safety regulations and best practices, ensuring that all projects are executed in a safe and compliant manner.

Papua Power Limited's technical staff and engineers bring a wealth of experience and expertise, making them well-equipped to handle diverse projects while ensuring adherence to budgetary and time constraints. Their commitment to excellence positions the company as a leader in the industry.

OVERVIEW

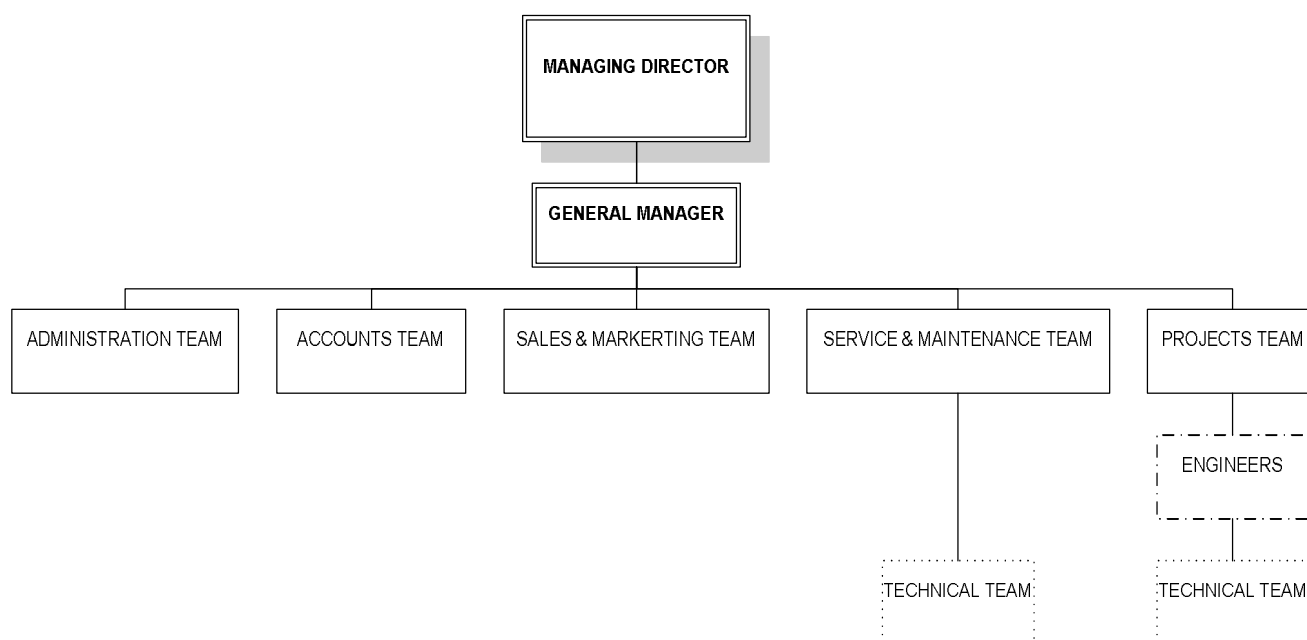
PAPUA POWER LIMITED has its workmen experiences involved in several Multi Million Kina Projects since working for other major mining Companies and industries as Project Engineers & Managers and specializes in:

- Design and Construction of Off-Grid, ON Grid and Hybrid Power Plants
- Design, Installation and Construction of SMART ON/OFF Grid SOLAR power systems for Domestic, Commercial and Industrial applications to major power plants – from WATTS to MEGAWATTS
- Design, Engineering & Construction of Water Treatment Plants, Desalination Plants from sea water, well water & river to 100% pure drinking water
- Erection of Communication Towers, 3G & 4G Radio Receiving Units(RRU), Microwave systems, Feeders, Fiber-Optic cabling, Earth Grid systems
- Design and Installation of SMART Solar and Grid Connection Street Lighting systems
- Design and Installation of Large Complex Electrical & Mechanical Projects
- Design and Installation of Civil and Building construction Projects
- Design and Installation of Computer Information, Database and Network setup systems
- Design, Installation and Maintenance of Heating, Ventilating and Air-Conditioning Systems [HVAC]

- Design, Installation and Commissioning of Power Generation and Distribution Systems from Low Voltage (LV) to High Voltage (HV) Networks
- Design, Installation and Commissioning of Uninterrupted Power Supply (UPS) & DC Systems
- Design, Installation & Commissioning of Surge Filter/Diverter Protection Systems.
- Design and Installation of Bore-water pumping systems
- Power Quality monitoring of Single and Three Phase Power Networks
- Infra-Red Thermal Imaging (Thermo-scanning) of Electrical Switchboards and Distribution systems

ORGANIZATIONAL STRUCTURE

Organizational Chart



OPERATIONAL PLAN

- **OFFICE LOCATION:**

- PAPUA POWER LIMITED is located at Section 47, Lot 06, D'Albertis street, Konedobu, National Capital District as its principal location, The Company will also conduct business at various business premises or relevant locations due to business and or valued clients requirements.

- **CONTACT BUSINESS ADDRESS:**

- P O BOX 1496, WATER-FRONT, KONEDOBU 125, NATIONAL CAPITAL DISTRICT, PORT MORESBY, PAPUA NEW GUINEA

- **Contact Email Address:**

- enquiries.papuapower@gmail.com

- **BANKING DETAILS:**

- BANK: BANK SOUTH PACIFIC
- BRANCH: VISION CITY
- ACCOUNT NAME: PAPUA POWER LIMITED
- ACCOUNT NUMBER: 7016356219
- BSB Nº: 088907

COMPLIANCE AND CERTIFICATION

The company has complied with standards and procedures set by the various certified authorities of the national government to operate as an electro-mechanical/civil and structural company, and have since been issued with the following certification:

- **IPA COMPANY CERTIFICATE**
- **TAXPAYER REGISTRATION CERTIFICATE (TIN)**
- **CERTIFICATE OF COMPLIANCE**
- **WORKERS COMPENSATION**
- **PUBLIC LIABILITY**
- **ELECTRICAL CONTRACTORS LICENSE**

IPA COMPANY CERTIFICATE

INDEPENDENT STATE OF PAPUA NEW GUINEA

Companies Act 1997

Sections 14 & 442

Form 5

Certificate of Incorporation **PAPUA POWER LIMITED** **1-119377**

I certify that
PAPUA POWER LIMITED

was incorporated under the *Companies Act 1997*
on 23 August 2018

Given under my hand and seal on 23 August 2018.



A stylized handwritten signature in black ink, consisting of a large loop followed by a series of vertical strokes and a horizontal line at the end.

Harriet Kokiva
Acting Registrar of Companies

The validation code for this Certificate of Incorporation is COMPANIES-20918393. To check the validity of this certificate enter
<https://www.ipa.gov.pg/ipacompanies/verify/1-119377/COMPANIES-20918393.html> in your browser.
Certificate generated 23 August 2018 07:54 PM PGT

TAXPAYER REGISTRATION CERTIFICATE



TAXPAYER REGISTRATION CERTIFICATE

Taxpayer Identification Number: 501184541

Name of Business/Individual: PAPUA POWER LIMITED

Registered Address:
P O Box 1496
Waterfront 125, National Capital District
Papua New Guinea

Nature of Business /
Individual Situation: OTHER BUSINESS ACTIVITIES

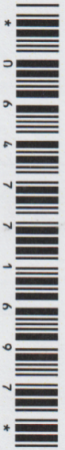
Issuing Authority: IRC HEAD OFFICE

Date of issuance: September 05, 2018

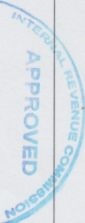
This certificate represents the sole and only registration as a taxpayer and
supersedes all prior registration documentation.

The taxpayer is responsible for notifying the Internal Revenue Commission of
any changes to the above information.

Certificate Number: 064771697



SEAL OF ISSUING AUTHORITY



CERTIFICATE OF COMPLIANCE



CERTIFICATE OF COMPLIANCE

INCOME REPORTING SYSTEM

Taxpayer Identification Number: 501184541

Certificate No: 138184057

PAPUA POWER LIMITED
Trading as: **PAPUA POWER LIMITED**
P O Box 1496
Waterfront 125, National Capital District
Papua New Guinea

VALID DATE OF EFFECT October 18, 2022 TO April 18, 2023

PENAL TIES: Pursuant to Section 354T of the Income Tax Act, a person who produces a forged or altered Certificate to a Paying Authority or falsely pretends to be the person or representative of the company named in the Certificate is guilty of an offence.

PENALTY: A FINE NOT LESS THAN K1,000.00 AND NOT EXCEEDING K50,000.00 OR IMPRISONMENT FOR 12 MONTHS OR BOTH.



SEAL SIGNATURE OF ISSUING AUTHORITY

IMPORTANT NOTICE: This Certificate serves no other purpose other than to authorize a NIL deduction for Business Payment Tax (BPT). It has no effect on other withholding obligations including Salary and Wages Tax (SWT), Goods and Services Tax (GST), etc.

WORKERS COMPENSATION



CERTIFICATE OF CURRENCY

DATE OF ISSUE : 15th February, 2019
BRANCH OF ISSUE : Port Moresby
TO : TO WHOM IT MAY CONCERN

This Certificate is issued in lieu of the Policy and it hereby grants insurance as detailed below. This insurance is subject to the terms, exceptions, conditions and warranties of the Company's standard form of policy specified as modified by the endorsements and clauses attached or specified hereon, and any extensions detailed here. If not attached, a copy of such policy is available at the Company's above branch office.

INSURED NAME : Papua Power
for their respective rights and interests,

INTERMEDIARY : Kanda International Insurance Brokers

INTERESTED PARTY : Not Available

POLICY TYPE : Worker's Compensation

POLICY NUMBER : 58361-1

PERIOD OF INSURANCE : From 15th February, 2019
To 4.00pm 15th February, 2020

GEOGRAPHICAL LIMITS : Anywhere in Papua New Guinea

INTEREST INSURED : Insured's legal liability to all employees under the Workers' Compensation Act of Papua New Guinea and at Common Law of the State.

LIMITS OF LIABILITY : As per Worker's Compensation Act and Common law Liability Limit- K1, 000, 000 aggregate limit any one event.

POLICY TERMS & CONDITIONS : As required at Law.
Insurers Common Law coverage subject to the exclusions of Riots, Strikes & Civil Commotion, Malicious Damage, War and Terrorism.

POLICY EXCESS : Nil

PREMIUM INCLUDING STATUTORY CHARGES : As Agreed.

TISA HAUS, 2nd Floor, Wardstrip, Waigani, P.O Box 254, Waigani, N.C.D, Papua New Guinea.
Telephone (675) 323 1144 or 7290 0174 Facsimile (675) 323 2533

PUBLIC LIABILITY



CERTIFICATE OF CURRENCY

DATE OF ISSUE : 15th February, 2019
BRANCH OF ISSUE : Port Moresby
TO : TO WHOM IT MAY CONCERN

This Certificate is issued in lieu of the Policy and it hereby grants insurance as detailed below. This insurance is subject to the terms, exceptions, conditions and warranties of the Company's standard form of policy specified as modified by the endorsements and clauses attached or specified hereon, and any extensions detailed here. If not attached, a copy of such policy is available at the Company's above branch office.

INSURED NAME : Papua Power
for their respective rights and interests,

INTERMEDIARY : Kanda International Insurance Brokers

INTERESTED PARTY : Not Available

POLICY TYPE : Public Liability

POLICY NUMBER : 58360-1

PERIOD OF INSURANCE : From 15th February, 2019
To 4.00pm 15th February, 2020

GEOGRAPHICAL LIMITS : Anywhere in Papua New Guinea

INTEREST INSURED : Legal liability to third party for personal injury and/or property damage happening during the period of insurance, arising out of the business as a result of an occurrence including all charges, expenses, legal and other costs incurred as the result of an occurrence in connection with the business.
And in addition the Insurer will pay;

- a) All costs and expenses incurred with the written consent of the insurer
- b) The solicitor's fee for representation of the insured at
 - i) Any coroner's inquest or enquiry
 - ii) Proceedings in any court of summary jurisdiction arising out of any alleged breach of statutory duty resulting in injury or damage to property which may be the subject of indemnity under the policy.
- c) All charges, expenses and law costs recoverable from the insured by claimants in connection therewith.

TISA HAUS, 2nd Floor, Wardstrip, Waigani, P.O Box 254, Waigani, N.C.D, Papua New Guinea.
Telephone (675) 323 1144 or 7290 0174 Facsimile (675) 323 2533

ELECTRICAL CONTRACTORS LICENSE



NATIONAL ENERGY
AUTHORITY

+675 3253233
info@nea.gov.pg
Goads Herea Building, Waigani Dr
P.O. Box 494, WAIGANI NCD
www.nea.gov.pg

OFFICE OF THE MANAGING DIRECTOR

Our Ref: TR /2023-EL. PPL /598/20

8th. February 2023

"BY POST"

Manager
Papua Power Limited
PO Box 1496
Waterfront
National Capital District

Dear Sir,

**SUBJECT: GRANT OF EXTENSION AND AUTHORITY TO USE
ELECTRICAL CONTRACTORS LICENSE No. 1598 OF
2020 ISSUED BY PNG POWER LIMITED ("PPL")**

We have confirmed that the Papua Power **Limited**, cared of Post Office Box 1496, Waterfront, NCD, is the legitimate holder of an **Electrical Contractors License # 1598/2020** initially issued by PNG Power Limited ("PPL") under the now amended *Electricity Industry Act 2002*, and the said license has expired on the 7th. of January 2021.

The **National Energy Authority Act (No. 6 of 2021)** established the National Energy Authority ("NEA") as an independent energy regulator, thus the recent amendment made in the **Electricity Industry (Amendment) Act 2022 (No. 42 of 2022)** has effectively transferred the technical and economic regulatory roles and functions to the NEA.

As the new Regulator, the NEA is mandated to perform these roles and functions under Part IV (Electricity Supply Industry Law), specifically Subdivision 3 (*Safety and Technical Requirements*) and Division 5 (*Electrical Contractors and Electricians*) which relates to your activities as certified under **ECL No. 1598/2020** issued by PPL on safety and technical compliance of works, electrical installations, and equipment.

The various major regulation documents had already been placed with the Department of Justice and Attorney General and Office of the First Legislative Counsel to perform due diligence to ensure the documents met statutory governance requirements, and for presentation to the executive cabinet for final approval, gazettal, and implementation.


Harnessing Energy for Life

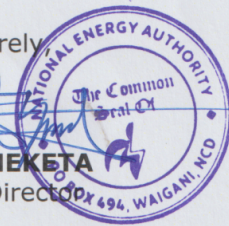
Whilst that process is ongoing, in consideration of the expiry of ECL No. 1598 /2020, **we hereby grant extension and authorise the company to continue performing its activities in compliance with the conditions of the license**, as issued by PPL until such time the statutory due diligence is concluded.

In essence, NEA as the new Regulator will endeavour to grant a new licence to **Papua Power Limited**.

Do contact Mr. John Marcus, the acting Manager(Standards) of the Technical Regulation Division for further clarifications and or queries on telephone number 325 3533 or via email John.Marcus@nea.gov.pg .

Yours sincerely,


RONALD MEKETA
Managing Director



Harnessing Energy for Life



KEY PERSONAL

LOU VANI

ELECTRICAL ENGINEER, INSPECTOR, HV/LV LICENSED ELECTRICIAN

WORK EXPERIENCES

Employment History and Responsibilities

Organization	PAPUA POWER LIMITED
Position	➤ PROJECT MANAGER ➤ LICENSED ELECTRICAL INSPECTOR
Period	2021
Location	NATIONAL CAPITAL DISTRICT, PORT MORESBY
Responsibilities	<ul style="list-style-type: none">• Reports to Managing Director on daily operations of the projects• Organizes and schedules daily tasks for technicians & engineers• Making sure all Safety Regulations are practiced on sites• Making sure projects are completed as per schedules and timelines• Ensures proper QAQC procedures are followed when testing, commissioning & energising of equipment & facilities

Employment History and Responsibilities

Organization	NEWCREST MINING
Position	➤ SENIOR ELECTRICAL SUPERVISOR ➤ MINE TRAINING COORDINATOR
Period	2018
Location	LIHIR, NEW IRELAND PROVINCE
Responsibilities	<ul style="list-style-type: none">• Organizes and schedules daily tasks for technicians• Prepares daily JSA and SOP as safety requirements and regulations before commencing of tasks• Ensures all safety procedures are practised on site from start to completion of work• Oversees all installations of electrical equipment, gensets, electrical switchboards, pumps, motors, instrumentation, etc.• Oversees construction of sub-station control room• Ensures all QAQC procedures are followed when commissioning of all electrical installations

Employment History and Responsibilities

Organization	KEL COMMUNICATIONS
Position	PROJECT MANAGER
Period	2016 – 2017
Location	NATIONWIDE HUAWEI/TELIKOM PROJECTS

Responsibilities	<ul style="list-style-type: none"> • Reports to the Managing Director on the weekly updates of the project • Ensures all reports are documented and forwarded to Managing Director • Ensures all projects are started and completed on schedule • Ensures Safety is practiced within all tasks given • Manages all logistics and ensures all are in and out of sites as scheduled • Ensures all QAQC procedures are followed before commissioning of telecom equipment • Ensures all mobile transports and gears for all staff are in the best condition and vehicle checks are daily practiced before use • Ensures all machinery and tools are in the best condition before operation • Attends to installation, upgrading and maintenance repair works on: <ul style="list-style-type: none"> - Nationwide Tower Erection rollouts on 30mtrs & 45 meters RDMU, RDS towers - Power & Communication networks - Installation of Generators, Power Cubes, DC Battery Banks, - Installation of Communication Feeders & Microwaves - Installation of Indoor (IDU) & Outdoor (ODU) RRU, Sector antennas - Installation of 3G & 4G Radio Receiving Units (RRU)
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Employment History and Responsibilities

Organization	PNG POWER LIMITED
Position	ELECTRICAL INSPECTOR
Period	2014
Location	PORT MORESBY
Responsibilities	<ul style="list-style-type: none"> • Ensures that all installations are prepared for testing and commissioning • Ensures all testing procedures are documented and recorded for future references • Attends to Electrical Inspections, Tests & Commissioning of the following: <ul style="list-style-type: none"> - Domestic, commercial and Industrial Electrical equipment - Domestic, commercial and Industrial Electrical installations - High Voltage (HV) and Low Voltage (LV) installations - High rise buildings, Generator installations and Electrical Faults

Employment History and Responsibilities

Organization	TIMKUMBA HOLDINGS LIMITED
Position	PROJECT MANAGER – POWER & COMMUNICATION
Period	2013
Location	NATIONWIDE B-MOBILE PROJECTS
Responsibilities	<ul style="list-style-type: none"> • Reports to Divisional Manager on all updates of the project • Ensures projects are carried out and completed within schedule • Ensures all projects are within the allocated budget • Ensures safety procedures are implemented and SOPs' done onsite • Ensures proper safety documents such as JSA are done daily before work commences • Ensure all QAQC procedures are carried out before testing and commissioning • Ensures all tests are done with the presence of all appropriate personal • Ensures all team leaders a aware of their daily tasks given and followed accordingly

- Manages the logistics to and from all sites, making sure all material are onsite within proposed schedules
- Attends to Installation, up-grading and maintenance repair works on:
 - Domestic, commercial and Industrial Electrical equipment
 - Power & Communication network
 - Generators, Single/ Parallel Auto transfer Switches
 - Communication Feeders & Microwaves
 - Communication towers

Employment History and Responsibilities

Organization	ELTECH ENGINEERING SERVICES LIMITED
Position	SERVICE & MAINTENANCE MANAGER
Period	2007 – 2012
Location	Nationwide Projects
Responsibilities	<ul style="list-style-type: none"> • Reports to Managing Director and Chief Operations Officer for all weekly updates on projects, maintenance, etc.. • Ensures all daily tasks are completed on schedule • Ensures tasks are completed within given budgets • Prepares daily, weekly and monthly project schedules for all major projects and maintenances • Liaises with customers for maintenance schedules • Ensures all QAQC procedures are followed before commissioning of installations • Attends to Installation and Maintenance repair works on: <ul style="list-style-type: none"> - Domestic, commercial and Industrial Electrical equipment - Electrical and communication cabling/ Data and phone line systems - UPS Electronics - Solar Power Electronics - Low Voltage (LV) and High Voltage (HV) Distribution and Generation systems - Generators and Controls - Programmable Logic Controls (PLC Systems) - Automatic Transfer Switch (ATS) & Manual Transfer Switch (MTS) - Infra-Red Thermal Imaging and Power Systems Analyzing and Instrumentation - Lightning and Surge Protection systems - Refrigeration and Air-Conditioning systems - Power Factor Correction Capacitor Bank systems - Fire Alarm Systems - Industrial Motor Controls - Catering Equipment/Appliances

Employment History and Responsibilities

Organization	OK TEDI MIMING LIMITED
Position	TEAM LEADER – ELECTRICAL
Period	2005
Location	TABUBIL, WESTERN PROVINCE
Responsibilities	<ul style="list-style-type: none"> • Reports to Service Coordinator of all daily tasks and activities • Documents all necessary reports for the tasks done • Ensures all safety procedures such as JSA, JSEA, etc.. are in place before commencing work • Reports and documents any unsafe acts and minimize risks before recommencing work

- Ensures all materials used for task are as per drawings
- Ensures all tasks are done within the allocated budget
- Site inspections for quotations and material estimations
- Organizes instruments for electrical auditing
- Attends to Installation and Maintenance repair works on:
 - Domestic, Commercial Electrical equipment
 - White-goods and Catering Equipment
 - Power Load Balancing & Up-grading of Electrical accessories

Employment History and Responsibilities

Organization	DATEC (PNG) LIMITED
Position	COMMUNICATION TECHNICIAN
Period	2004
Location	PORT MORESBY & LAE
Responsibilities	<ul style="list-style-type: none"> • Reports to Senior Communication Engineer • Receives daily tasks and activities and attends to • Attends to any after-hours service calls for better customer service • Ensures all safety practices are shown in every part of the way within all tasks • Attends to Installation and Maintenance repair works on: <ul style="list-style-type: none"> - Electronics & Communications Equipment - Wireless Networking - Microwave Transmission and Switching systems - Wireless Network Radio configurations - Data and phone line cabling - Fiber Optic Cabling - Mast and Antennae Fabrications - Uninterruptible Power Systems (UPS)

Employment History and Responsibilities

Organization	LAMANA HOTEL
Position	ELECTRICIAN
Period	2003
Location	PORT MORESBY
Responsibilities	<ul style="list-style-type: none"> • Attends to Installation and Maintenance repair works on: <ul style="list-style-type: none"> - Domestic, Commercial Electrical equipment - Air-Conditioning and Refrigeration systems - Data and phone line systems - Catering Equipment/Appliances - Public Address (PA) and Sound systems

Employment History and Responsibilities

Organization	TE PNG LIMITED
Position	COMMUNICATION TECHNICIAN
Period	2002
Location	PORT MORESBY
Responsibilities	<ul style="list-style-type: none"> • Attends to Installation and Maintenance repair works on: <ul style="list-style-type: none"> - Electrical and Communications/Electronics equipment - HF, VHF, UHF, Base and Mobile Transceivers - Solar Lighting systems - Solar Refrigeration systems - Solar Power Electronics

- Public Address (PA) systems
- Mast and Antennae Fabrications
- Catering Equipment and Appliances

Employment History and Responsibilities

<i>Organization</i>	INTERNATIONAL BIBLE STUDENTS ASSOCIATION (IBSA)
<i>Position</i>	ELECTRICIAN
<i>Period</i>	1997 - 2002
<i>Location</i>	PORT MORESBY
<i>Responsibilities</i>	<ul style="list-style-type: none"> • Attends to Installation and Maintenance repair works on: <ul style="list-style-type: none"> - Domestic, Commercial and Industrial Electrical Equipment - Building Electrical wiring - Generators and Auto Transfer Switch (ATS) - Air-Conditioning and Refrigeration systems - Laundry & Catering Equipment - Carpentry and building construction - Telephone and Data network cabling

ACHIEVEMENTS-Lou Vani

- Certificate iii in Electro-Technology-Systems Electrician
- Electrical Inspector's License (#249)
- Electricians License (#2490)
- High Voltage (HV) Switching Operations License (#111)
- Electrical Tradesman Certification
- Programmable Logic Controls [PLC] Training
- Industrial Electronics Training
- ERICO Distributors Training
- UPS & DC Systems Training
- Deutz Generator Training
- Introduction to Project Management Training
- Power Quality Systems Analyzing Training
- Infra-Red Thermal Imaging Training
- Telecommunications Earthing/Lightning & Surge Protections Training
- Communication Rigging Certificate
- Project Management, Supervisory and Team Leader Skills
- Material Estimator
- Electrical Inspector & QAQC roles
- Mine Safety Trainings in:
 - General Safety Induction
 - Mine Induction
 - Job Safety & Environmental Analysis (JSEA)
 - Standard Operating Procedure (SOP)
 - Work Permit
 - Hot Work Permit
 - Cardio Pulmonary Resuscitation (CPR)
 - First Aid
 - Pole Top Rescue
 - Lock Out Tag Out (LOTO)
 - Confined Space
 - Working At Heights
 - Scaffolding
- Computer Literate in:
 - Word, Excel, Outlook, Power-point, Access & Internet Explorer
 - CAD & Visio drawing systems

QUALIFICATIONS AND TRAININGS- Lou Vani

2025	ALISON ONLINE CORRESPONDENCE <ul style="list-style-type: none"> <i>DIPLOMA IN ELECTRICAL STUDIES</i> <i>DIPLOMA IN ELECTRICAL TECHNOLOGY</i>
2016/2017	PENN FOSTER ONLINE CORRESPONDENCE (USA) <ul style="list-style-type: none"> <i>Associate Of Specialized Technology (AST) Degree in Industrial Electronics & Electrical Maintenance Technology</i> <i>Associate Of Specialized Technology (AST) Degree in Engineering Technology</i>
2014	AUSTRALIA PACIFIC TECHNICAL COLLEGE (PORT MORESBY) <ul style="list-style-type: none"> <i>Certificate iii in Electro-technology, Systems Electrician</i>
2013	PNG POWER LIMITED TRAINING COLLEGE (PORT MORESBY) <ul style="list-style-type: none"> <i>High Voltage Switching Operations (HVSO) License</i>
2012	PORT MORESBY TECHNICAL COLLEGE <ul style="list-style-type: none"> <i>Electronics Extension- 1</i>
2011	ERICO DISTRIBUTORS TRAINING (SYDNEY, AUSTRALIA) <ul style="list-style-type: none"> <i>Grounding and Surge Protection Products</i> PNG UNIVERSITY OF TECHNOLOGY (LAE) <ul style="list-style-type: none"> <i>Industrial Electronics</i> <i>Programmable Logic Controller System –PLC</i> EATON UPS TRAINING CENTRE (SYDNEY, AUSTRALIA) <ul style="list-style-type: none"> <i>Uninterruptable Power Systems (UPS) and Direct Current (DC) Systems</i> EDUCATION DIRECT-ONLINE CORRESPONDENCE (USA) <ul style="list-style-type: none"> <i>Diploma in Telecommunication Technician</i> PNG POWER TRAINING COLLEGE <ul style="list-style-type: none"> <i>PNG Electrical Inspectors License</i> <i>-Accreditations- Highest Scorer in the 'CLOSE BOOK' exam</i>
2009	DEUTZ TRAINING CENTRE (MELBOURNE, AUSTRALIA) <ul style="list-style-type: none"> <i>Deutz Generator Controller Systems</i> CONCEPT TRAINING SERVICES <ul style="list-style-type: none"> <i>Introduction To Project Management Training</i>
2008	PNG POWER TRAINING COLLEGE (PORT MORESBY) <ul style="list-style-type: none"> <i>PNG Electrician's License</i> <i>Accreditations- Highest Scorer in the 'OPEN BOOK' exam</i> PORT MORESBY TECHNICAL COLLEGE <ul style="list-style-type: none"> <i>Programmable Logic Controllers (PLC) Systems</i>
2006-2008	NATIONAL APPRENTICESHIP and TRADE TESTING BOARD <ul style="list-style-type: none"> <i>Electrical Trade Tests- Level 1, Level 2, and Level 3</i> <i>Electrical Tradesman Certificate</i> <i>Accreditations- 1st Runner up for the 'Tradesman of the Year' Award</i> TELIKOM TRAINING COLLEGE (LAE) <ul style="list-style-type: none"> <i>Communication Rigging</i> <i>ERICO Lightning and Surge Protection & Telecommunication Earthing</i>
1998-1999/2005	PORT MORESBY TECHNICAL COLLEGE (P.E.T.T) <ul style="list-style-type: none"> <i>Electrical, Auto Electrical, Electronics</i>

SINAKA GUBA KOHU

CIVIL ENGINEER

QUALIFICATIONS

- 2007 : Bachelor of Engineering in Civil Engineering from PNG University of Technology.
2002 : Higher School Certificate from Port Moresby National High School.
2000 : High School Certificate from Badihagwa High School.
1998 : Primary School Certificate from Hagara Primary School.

EMPLOYMENT HISTORY

- ✓ 18 years in Engineering, Construction and Project Management.
- ✓ 13 of them in Water and Sanitation Industry.

Employer	:	WATER PNG LIMITED
Position	:	Senior Project Engineer
Department	:	Contracts & Construction
Division	:	Project Management Unit
Duration	:	1 May 2023 to date
Responsibilities	-	Deliver Water PNG (CapEx) and Government (PIP) funded water and sewerage projects throughout the country.
	-	Assist in preparing and undertaking project documentation and budget submission of Public Investment Projects (PIP) to the Department of National Planning & Monitoring (DNPM) for funding under the National Government budget.
Duties	-	Conduct Feasibility Studies, Ground Water Investigations, Technical Assessments and Site Inspections. Planning, Design, Scoping, Costing, Scheduling and Project Management, Construction Supervision and Contract Administration.
Accomplishments:		<u>Completed Projects/Tasks</u> <ul style="list-style-type: none">(i) Feasibility Study and Concept Plan for the Proposed 130 MLD Water Treatment Plant & Distribution System from Edevu, Brown River, Central Province to supply Port Moresby. Project Cost Estimate: PGK 1.3 billion.(ii) Feasibility Study and Concept Plan for the Proposed 120 MLD Water Treatment Plant & Distribution System from Erap River, Huon Gulf, Morobe Province to supply Lae. Project Cost Estimate: PGK 1.1 billion.(iii) Feasibility Study and Concept Plan for the Proposed 25 MLD Water Treatment Plant & Distribution System from Gumanz River, Western Highlands to supply Mount Hagen. Project Cost Estimate: PGK 600 million(iv) Technical Assessment and Audit of Water Supply and Sewerage Systems in Arawa Town, Autonomous Region of Bougainville. Project Cost Estimate: PGK 30 million.(v) Concept Plan for the Proposed Upgrade of Bunu Water Treatment Plant from 0.38 to 6.8 MLD capacity and expansion of distribution network in Hiri West, Central Province. Project Cost Estimate: PGK 73 million(vi) Detail Design and Documentation for the Stage 1B Water Reticulation at Durand Farm Housing Estate, 8 Mile, NCD. Project Cost Estimate: PGK 1.0 million.

- (vii) Review, Endorsement and Approval of the Detail Design Report and Construction Drawings for the New 2.4 km Trunk Sewer Main at Durand Farm Estate, 8 Mile, NCD. Project Cost Estimate: PGK 4.0 million.

Projects In-Progress

- (viii) Supervision of the New 2.4 km Durand Farm Sewerage Project currently under construction. Total Contract: PGK 3.0 million.
- (ix) Supervision of the Durand Farm Stage 1 Water Reticulation Project currently under construction. Total Contract: PGK 800,000.00
- (x) Management, Supervision and Contract Administration of the Tari Town Water Supply Project currently under construction. Total Contract: PGK 33 million.
- (xi) Review of the Detail Design Report and Construction Drawings for the New 1.2 km Trunk Sewer Main for 2G Estate and PNGDF Residence, 7 Mile, NCD. Project Cost Estimate: PGK 3.0 million.
- (xii) Feasibility Study, Ground Water Investigations and Concept Plan for the Proposed Water Supply and Sewerage Systems in Buka, Autonomous Region of Bougainville. Project Cost Estimate: PGK 20 million.
- (xiii) Review of the Detail Design Report and Construction Drawings for the Stage 1 Sewer Reticulation for Durand Farm Estate, 8 Mile, NCD. Project Cost Estimate: PGK 3.0 million.

Employer : **WATER PNG LIMITED – PORT MORESBY OPERATIONS** (formerly EDA RANU)

Position : Works Engineer

Department : Engineering & Works

Division : POM Operations

Duration : 17 February 2020 to 28 April 2023

Responsibilities : Deliver Water PNG (CapEx) and Government (PIP) funded water and sewerage projects throughout National Capital District and parts of Central Province.

Duties : Conduct Site Inspections, Planning, Design, Scoping, Costing, Scheduling and Management of Projects, Construction Supervision and Contract Administration.

Accomplishments: Completed Projects/Tasks

- (i) Detail Design and Construction Supervision of 4.3 km Main Water Pipeline for Tabeani Village, Hiri Koiari, Central Province funded by Water PNG Ltd with a Total Project Cost of PGK 250,000.00
- (ii) Detail Design and Construction Supervision of 5.4 km Main Water Pipeline for Laloki Psychiatric Hospital, Central Province funded by National Department of Health with a Total Project Cost of PGK 2.1 million.
- (iii) Detail Design and Construction Supervision of the Stage 1A Water Reticulation at Durand Farm Housing Estate, 8 Mile, NCD funded by National Housing Corporation with a Total Project Cost of PGK 1.0 million.
- (iv) Detail Design and Construction Supervision of Water Supply Projects funded by the Member for Moresby North-East Electorate, NCD with a Project Cost of PGK 1.0 million.
 - a. Momase Block, 8 Mile.
 - b. Daima-Tari Block, East Boroko.
 - c. Peter ToRot Settlement, 8 Mile.
 - d. Makana Settlement, 9 Mile.
 - e. Wildlife Settlement, Erima.
- (v) Supervision of Upgrade Works on Access Roads to Water PNG Reservoir Tanks in NCD funded by Water PNG Ltd with Total Project Cost of PGK 500,000.00.
- (vi) Concept Plan, Scoping and Cost Estimation for the Proposed Upgrade and Expansion Works on Water Supply Pipeline in Ward 1 Area, Moresby North-West Electorate, NCD. Project Cost Estimate: PGK 9.0 million.

Employer : **EDA RANU LIMITED**
 Position : Acting Manager
 Department : Non-Revenue Water
 Division : Operations
 Duration : 15 April 2019 to 14 February 2020
 Responsibilities : Responsible for water production, distribution, pressure and flow management and addressing non-revenue water levels throughout NCD and parts of Central Province.
 Duties : Lead the NRW Team and Monitor Trunk Main, Reservoirs and NRW Zones (DMAs), Conduct Leak and Property Survey, Step Tests, Flow and Pressure Data Collection & Analysis, Flow and Pressure Control, Reduce Minimum Night Flow, Water Rationing and Balancing, Repair, Maintain and/or Replace defective equipment, instruments and devices (Ex: PRVs).
 Accomplishments: Reduced Non-Revenue Water (NRW) level from 55% to 51% in seven (7) months.

Employer : **EDA RANU LIMITED**
 Position : Engineer – Villages & Settlements
 Department : Non-Revenue Water
 Division : Operations
 Duration : 16 February 2015 to 12 April 2019
 Responsibilities : Responsible for water supply and distribution to village and settlement communities throughout NCD and parts of Central Province.
 Duties : Planning, design, scoping, costing and supervision of community water supply projects.
 Accomplishments: Converted 50% of authorised and unauthorised non-billed communities into paying customers under bulk-metering system through establishment of water committees.

Employer : **EDA RANU LIMITED**
 Position : Planning Engineer – Water & Sewerage
 Department : Planning & Network
 Division : Technical Services
 Duration : 22 August 2011 to 13 February 2015
 Responsibilities : Responsible for water and sewerage networks in NCD.
 Duties : Conduct pressure and flow data collection at reservoirs, trunk mains and district meter points and analyse trends in consumption levels; Plan for expansion of water and sewerage networks to cater for future growth.
 Accomplishments: All future water and sewerage plans got approved by Eda Ranu Management.

Employer : **AIR NUIGINI LIMITED**
 Position : Safety Systems Engineer
 Division : Engineering & Technical Services
 Duration : 21 April 2008 to 5 August 2011
 Responsibilities : Responsible for permitting aircrafts to fly.
 Duties : Conduct aircraft incident/accident investigations, investigation reports, auditing of standard operating procedures, documentation and work practices, check maintenance records and verifying aircraft approvals.
 Accomplishments: Zero accidents.

Employer : **FRAME HARVEY WEST & MASO CONSULTING ENGINEERS**
 Position : Graduate Engineer
 Duration : 9 July 2007 to 29 February 2008
 Responsibilities : Report to Project Engineers
 Duties : Assist Project Engineers on Civil and Structural Engineering Projects.

Accomplishments: (i) Realignment of Kiunga to Kokonda Road Project in Western Province, PNG.
(ii) Realignment of Mokohora Road in NCD, PNG.
(iii) Supervision of IBSA Building Project in NCD, PNG.
(iv) Redesign of Kerema Hospital in Gulf Province, PNG.

Employer : **OK TEDI MINING LIMITED**
Position : Trainee Engineer
Department : Regional Engineering
Division : Engineering & Technical Services
Duration : 16 January 2007 to 26 June 2007
Responsibility : Report to Team Leader Engineering & Project Control
Duties : Assist Project Engineers on Civil and Structural Engineering projects.

Accomplishments: (i) Supervision of concrete works for the Domestic Terminal at Tabubil Airport, PN
(ii) Design of subdivision roads in Kiunga, PNG.

Employer : **PNG HARBOURS BOARD** (*now PNG Ports Corporation Limited*)
Department : Engineering & Technical Services
Occupation : Student Engineer
Duration : 22 November 2004 to 28 January 2005
Responsibility : Report to Project Engineers
Duties : Assisted Project Engineers in Civil and Structural Engineering Projects.

Accomplishments: (i) Construction Supervision of the New APC wharf in Port Moresby, PNG.
(ii) Cost Estimates for Repair & Maintenance of Barge Ramp in Alotau, PNG.

PROFESSIONAL AFFILIATION

2022 : Registered Engineer Certificate from Institute of Engineers PNG (IEPNG) Inc, Port Moresby
2012 : Full Member Certificate from IEPNG, Port Moresby, PNG.
2004 : Student Member Certificate from IEPNG, Lae, PNG.

OTHER CERTIFICATES

2023 : Certificate in Financial Literacy Training by Nambawan Super, Port Moresby, PNG.
2021 : Certificate in Effective Leadership, Management and Personal Viability, Port Moresby, PNG.
2020 : Certificate in 4 Disciplines of Execution by Franklin Covey, Port Moresby, PNG.
2019 : Certificate in 7 Habits of Highly Effective People by Franklin Covey, Port Moresby, PNG.
: Certificate in Introduction to Magnet Field Software by Theodist, Port Moresby, PNG.
2014 : Certificate in Fundamentals of Project Management from IEPNG, Port Moresby, PNG.
2012 : Certificate in Sewerage Systems Engineering, Operations & Maintenance, Tokyo, Japan.
2007 : Graduate Member Certificate from IEPNG, Port Moresby, PNG.
2004 : Certificate for attending IEPNG Conference held in PNG University of Technology, Lae, PNG.
2002 : Certificate in Basic Computer Literacy from Port Moresby National High School.
: Australian Mathematics Competition Certificate.
: Australian Chemistry Competition Certificate.
2001 : Australian Mathematics Competition Certificate.
2000 : Certificate in Basic Computer Application from Badihagwa High School.

TRAINING COURSES

2023 : Financial Literacy by Nambawan Super, Port Moresby, PNG.
2021 : Effective Leadership, Management and Personal Viability by IEPNG.
2020 : 4 Disciplines of Execution by Franklin Covey.
2019 : 7 Habits of Highly Effective People by Franklin Covey.
: Magnet Field Software (Topcon GT Series Robotic Total Station) by Theodist.
2014 : Fundamentals of Project Management by IEPNG.
2013 : Customer Service Training Course by Eda Ranu in Port Moresby, PNG.

- 2012 : 3-month Sewerage Systems Engineering, Operations & Maintenance Course by JICA in Tokyo, Japan.
- 2007 : Civil CAD Version 6.71 Training Course by Ok Tedi Mining Limited in Tabubil, PNG.

SKILLS AND ATTRIBUTES

I am proficient in MS Word, MS Excel, MS Project, MS PowerPoint, MS Publisher and MS Outlook software applications and the Internet. I also have fundamental skills in Civil CAD, Auto CAD, Google Earth and Aviation Quality Database (AQD) computer programs. I possess good command of the English language and very good communication and interpersonal skills. I am a self-starter, planner, organiser, team player, pay attention to detail, handle pressure, solve complex problems, complete tasks on time with minimum supervision, get along with everyone, and demonstrate high standard of discipline.

EXTRA CURRICULUM ACTIVITIES

- 2012 to 2024 : Attended all IEPNG Annual General Meetings in Port Moresby, PNG.
- 2019 : Attended the IEPNG Competency Based Assessment Seminar.
- : Coach of Hanuabada Hawks Under 20s Rugby League Team.
- : Coach of Port Moresby Under 20s Representative Rugby League Team.
- : Coach of Southern Zone Under 20s Representative Team.
- 2018 : Coach of Hanuabada Hawks Under 20s Rugby League Team.
- : Coach of Port Moresby Under 20s Representative Rugby League Team.
- : Coach of Southern Zone Under 20s Representative Rugby League Team.
- 2017 : Attended the IEPNG Research Conference at Gateway Hotel, Port Moresby.
- 2003 to 2006 : Attended seminars and conferences hosted by IEPNG at PNG UOT.
- : President of Motu-Koita Students Group at PNG University of Technology.

RONALD SMARE

MECHANICAL ENGINEER

Employment History and Responsibilities

Organization	Newcrest Mining Limited
Position	Project Engineer
Period	2015 – 2017
Location	Lihir, New Ireland province
Responsibilities	<ul style="list-style-type: none"> • Provide engineering design solutions (mechanical) to address and manage process changes in a safe and efficient manner per requirements provided by the process owner, eg - Mine Tech, Process operations Front End, Maintenance Workshop. • Carry out feasibility studies, concept development, develop business cases and prepare cost estimates to secure funding to deliver operational improvements as required by NML Lihir business. • Prepare bid documentation, manage contracts and monitor project progress for stakeholder feedback. • Manage all aspects of project spending for all projects undertaken. This includes contract management for external contractors in accordance with company policy and the terms and conditions of agreement to ensure delivery of goods or service within scope, cost and per agreed schedule. • This at times also involves managing scope creep and associated cost and schedule overruns. • Undertake regular constructability reviews to ensure project delivery practices are efficient, safe and incorporates industry best practices. • Providing break down solutions for system and process failures that are in compliance with Newcrest, Papua New Guinea and international standards and incorporate industrial best practices. • Provide on-going technical support and engineering advice to construction team executing projects. • Provide ongoing technical support and engineering advice to Mine operations and Process operation as may be required. • Participate, assist and facilitate, risk reviews, safety risk assessments and HAZOP WORKSHOPS as required by the business • Involved in facility studies to identify process shortfalls and provide or identify solutions to drive process improvements, i.e. increase throughput, improved process efficiency, and or improved process safety. • Ensure work-groups meet or exceed company requirements through monitoring of ongoing jobs OH&S standards/performance, and follow up on occupational health and safety issues identified. • Ensure work-groups meet or exceed NML Lihir operation's environmental and community requirements through continuous monitoring of projects in delivery, and following up on Environmental and Community issues identified.

Organization	Nestle (PNG) Ltd
Position	Project Engineer
Period	2013 – 2014
Location	Lae, Morobe province
Responsibilities	<ul style="list-style-type: none"> • Manage all Major, Minor and Small Purchase Projects for Nestle Lae Factory. • Manage and drive project team to manage responsibilities including; <ul style="list-style-type: none"> - Management of Red Tag area used for site equipment storage - Management of small projects as they arise o Asset
	<p>Management of Factory Assets through Asset classification, tagging and reporting of Asset information to Site Asset Custodian.</p> <ul style="list-style-type: none"> - Monthly Capital Expenditure Reporting including Project Tracker. Report submission to Nestle Pacific Office in Sydney. • Manage all new installations, modifications and repairs carried out on the Factory facility. • Person responsible for Explosive Atmosphere management for Dust Explosion for this site. This involved: <ul style="list-style-type: none"> - Creating and registering all Risk Assessments for all facilities within factory - Preparing Site Operating Procedure for site o Ensure all site assessment checklists are prepared and utilized by site. - Ensure Site staffs are trained and aware of the Dangers and controls required in all identified explosive areas for this factory. • Preparation and submission of all Project Capital Expenditure for Factory for both Engineering and Non – Engineering functions
Organization	ORIGIN ENERGY (PNG)
Position	Project Engineer
Period	2008 – 2013
Location	Port Moresby, National Capital
Responsibilities	<ul style="list-style-type: none"> • Responsible for Project Capital submissions for <ul style="list-style-type: none"> - Engineering modifications and or new installations within all Origin Energy (PNG) LPG facilities to ensure facility efficiency and compliance to all regulatory standards and guidelines within PNG as well as complying with all international safe practice and operational regulation. - Managing new and existing project ensuring they finish within time allocated and within set budget. - Attending equipment breakdown, ensuring equipment is brought back into service quickly, safely and within budget. - LPG equipment and vessel retest and compliance.

EDUCATION QUALIFICATIONS	
2000	UNIVERSITY OF TECHNOLOGY- LAE <ul style="list-style-type: none"> • BACHELLOR'S DEGREE IN MECHANICAL ENGINEERING

2015 - Project Engineer – Newcrest Mining Limited Lihir

As a project engineer (mechanical) the following where some of the work I was directly involved in.

Project Name: HCL Storage and Handling area.

Position: Project Engineer Responsible

Summary: Refurbish existing site, reinstate HCL distribution network waste management system, and increased storage capacity whilst meeting all site and industrial safety standard requirements.

Budget: USD \$1. 24 million **Responsibilities**

- Prepared budget submission and business case for the capital submission and applied for funding. Funding was approved.
- Set-up project schedules.
- Managed all design works
- Managed procurement
- Engineering assistance during construction phase,

Commissioning and QAQC



Project Name: Mass Flow & Density Measurement Project

Position: Project Engineer Responsible

Summary: Installation of Flow meter and Density Meter to improve slurry management system. This included modification of pipe work and structural framework to accommodate new pipe work.

Budget: USD \$575, 000.

Responsibilities

- Prepared budget submission and business case for the capital submission and applied for funding. Funding was approved.
- Set-up project schedules
- Managed all design works
- Managed procurement
- Engineering assistance during construction phase

Commissioning and QAQC



Before project installation



After project installation

2013-2014 Project Engineer – Nestle (PNG)

As a project engineer (mechanical) the following where some of the work I was directly involved in.

Project Name: Maggie Noodle Production Line Upgrade

Position: Project Engineer

Summary: Assisted with implementation of New Noodle line to produce the 100g Maggie Noodles product.

Budget: unknown

Responsibilities:

- Assisted with all equipment installation and ensuring compliance to all Nestle's food safety and hygienic engineering standards.
- Completed all steam line installation
- Assisted with pneumatic system installation
- Managed Procurement in support of construction
- Managed QAQC during installation to ensure no crosscontamination of operation production lines by installation team or equipment.
- Managed Permit to work system utilized for this installation. This includes but is not limited to -
 1. JSA documentation, review and management
 2. Permit to Work
 3. Hot Work Permit
 4. Work at Height
 5. Confined Space Permit

Position: Project Engineer

Project Name: Maggie Noodle Pork Tastemaker Installation

Summary: Successful installation and commissioning of Pork Taste Maker unit to complement the existing Maggie Noodle Product Range offered by Nestle PNG

Budget: unknown

Responsibilities:

- Managed Equipment installation complying with Nestlé's food safety and hygienic engineering standards.
- Completed successful commissioning of Equipment
- Supervised training of production team in producing tastemaker sachets from Taste maker machine.

Project Name: Nescafe Three-In-One Coffee mixer and auger

Position: Project Engineer

Summary: Successful installation and commissioning of a one tone stainless steel blending unit to improve production capacity for the Nescafe Three-In-One production. These include the installation of an augur to transport product from the blender to the existing packaging and packing facilities for this production line.

Budget: unknown

Responsibilities

- Managed Contractor Tender Awarding and Supervision for this installation.
- Managed Equipment installation complying with Nestlé's food safety and hygienic engineering standards.
- Completed successful commissioning of Equipment
- Supervised training of production team in producing tastemaker sachets from Taste maker machine.

2010-2013 Project Engineer – Origin Energy (PNG)

As a project engineer (mechanical) the following where some of the work I was directly involved in. Downgrading of the Wewak facility from LPG Terminal to LPG Depot. This involved:

1. Decommissioning and cotton wool of facility marine line
2. Relocate all storage tanks including design and fabrication of new lines
3. Inspection and retesting of all storage tanks.
4. Building of an isotainer loading/unloading bay including piping required for product transfer.
5. Upgrade of the facilities pneumatic and electrical control system.
6. Training of Terminal operators to operate the new facility.
7. LPG Isolator retesting and commissioning
8. LPG storage tank retesting and commissioning

STEVEN WALUTA

ELECTRICAL LINESMAN

Employment History and Responsibilities

Organization	TLE Electrical Contractors
Position	Project Manager
Period	2018
Location	Mt. Hagen, Western Highlands
Responsibilities	<ul style="list-style-type: none"> Relocation of 22kV & 66kV distribution lines for Mt. Hagen 4 Lane Upgrade Doing Weekly Planning and scheduling of jobs Arranging fuel and materials for the project Arranging workers salary Liaising with major contractors & Utilities for project schedule Weekly reports to head office

Employment History and Responsibilities

Organization	PNG Power Limited
Position	Team Leader- TEIP
Period	2016 – 2017
Location	Oro, Northern province
Responsibilities	<ul style="list-style-type: none"> Construction of 22kV & 33kV distribution lines Construction of LV distribution lines Arranging fuel and materials Engaging of casual laborers for the project Arranging of workers salary Assisting PR Officer liaise with landowners Planning and executing daily tasks Updating Project Manager on weekly progression on jobs

Employment History and Responsibilities

Organization	Ok Tedi Mining Limited
Position	Senior Electrical Linesman
Period	2015 – 2016
Location	Tabubil, Western province
Responsibilities	<ul style="list-style-type: none"> Maintenance of 132kV Transmission Lines Construction & Maintenance of High & Low Voltage Care & Maintenance of Outstation Generators Care & Maintenance of Tabubil & Ok Menga Power Stations Preventative Maintenance, Maintenance, Repair & fault-finding of all electrical Equipment of both Mining & Hydro And Diesel power stations and outstation Gensets

Employment History and Responsibilities

Organization	Ok Tedi Power Limited
Position	Senior Electrical Linesman
Period	2014 – 2015
Location	Tabubil, Western province
Responsibilities	<ul style="list-style-type: none"> Relocation of 22kV & 66kV distribution lines for Mt. Hagen 4 Lane Upgrade Doing Weekly Planning and scheduling of jobs Arranging fuel and materials for the project Arranging workers salary Liaising with major contractors & Utilities for project schedule Weekly reports to head office

Employment History and Responsibilities	
Organization	Tenix PNG Limited – Newcrest Mining
Position	Electrical Linesman
Period	2013
Location	Newcrest Mining, Lihir
Responsibilities	<ul style="list-style-type: none"> • Flotation tanks Upgrade • Cabling, Termination and Commissioning of HV & LV switch-rooms, Pumps, Motors and Equipment and Lighting & Power Circuits.

Employment History and Responsibilities	
Organization	MIE Contractors/Pan Process
Position	Electrical Linesman
Period	2012
Location	Newcrest Mining, Lihir
Responsibilities	<ul style="list-style-type: none"> • Million Ounce Project Upgrade (MOPU) • Cabling, Termination and Commissioning of HV & LV switchrooms, Pumps, Motors • Equipment and Lighting & Power Circuits

Employment History and Responsibilities	
Organization	Placements PNG – Plant Process
Position	Senior Electrical Linesman
Period	2011
Location	Newcrest Mining, Lihir
Responsibilities	<ul style="list-style-type: none"> • Testing and commissioning of High Voltage and Low Voltage Switch rooms, Pumps, Motors and other equipment site wide

Employment History and Responsibilities	
Organization	Monadelphous PNG
Position	Electrical Linesman
Period	2010
Location	Kutubu, Southern Highlands
Responsibilities	<ul style="list-style-type: none"> • Cabling of Fibre Optics cables site wide. • Fabrication and Installation of cable ladders and support brackets • Test and Tagging of Power tools

Employment History and Responsibilities	
Organization	Downer EDI Engineering
Position	Electrical Linesman
Period	2009
Location	Hidden Valley, Morobe province
Responsibilities	<ul style="list-style-type: none"> • Installation of both Power and Control Cables to High Voltage Switch Gears and LV Sub-stations and Control panels • Cabling and Termination of Power and Control cables to Diesel Generators • VSD and Power connections for Water Pump Site wide

Employment History and Responsibilities	
Organization	Western Power – PNG Sustainable Energy Ltd
Position	Electrical Linesman
Period	2007 - 2008
Location	Fly river, Western province
Responsibilities	<ul style="list-style-type: none"> • Construction of Low Voltage Power Distribution Lines • Installation of Rait Power Pre-pay Meters • Responsible for overall direction

Employment History and Responsibilities

Organization	PNG Power Limited
Position	Electrical Linesman
Period	1999 - 2006
Location	Nationwide Projects
Responsibilities	<ul style="list-style-type: none">• Construction of Low and High Voltage Distribution Power Lines• Aerial Sub-stations (Transformers) Installation and Maintenance• High Voltage Underground cabling and termination• Installation and Maintenance of High and Low Voltage Switches and Switch gears

ROBINSON LAKAS

ELECTRICAL LINESMAN

Employment History and Responsibilities

Organization	Lihir Electrical Services Limited (Newcrest Mining)
Position	Supervisor – Transmission & Distribution
Period	2015 - 2018
Location	Lihir, New Ireland province
Responsibilities	<ul style="list-style-type: none"> • Reports to Operations Manager for all daily and weekly tasks and activities • Creates JSEA and various Safety documents for technicians daily tasks • Up-grading and installation of HV and LV transmission and distribution lines • Extension of HV and LV distribution lines • Service and Maintenance on HV, LV distribution lines and transformer yards • Upgrading of sub-station transformers • Installation of new transformers • Attends to service call outs on faulty distribution and transmission lines within the mine, town and villages • Installation of MSK and Easypay meters for town and village residences

Employment History and Responsibilities

Organization	Simberi Gold Mine
Position	HV Linesman
Period	2009 - 2014
Location	Simberi Island, New Ireland province
Responsibilities	<ul style="list-style-type: none"> • Reports to Team Leader-Electrical for all daily and weekly tasks and activities • Creates JSEA and various Safety documents for technicians daily tasks • Up-grading and installation of HV and LV transmission and distribution lines • Extension of HV and LV distribution lines • Attends to service call outs on faulty distribution and transmission lines within the mine

Employment History and Responsibilities

Organization	PNG Power Limited
Position	Supervisor
Period	1979 - 2008
Location	Nationwide projects
Responsibilities	<ul style="list-style-type: none"> • Reports to Centre Manager for daily tasks and activities • Creates weekly reports for projects and maintenance operations • Attends Refresher trainings such as wood pole installations and ABC Bundle conductor courses conducted by PNG Power • Attends to all service call outs within center allocated • Installation of transformers, HV and LV switchgears • Construction of HV and LV extensions • Service and Maintenance on HV, LV distribution lines • Maintenance on transformer switchyards

PROJECT EXPERIENCES- Robinson Lakas

LIHIR ELECTRICAL SERVICES (NEWCREST MINING)	ELECTRICAL LINES SUPERVISOR
<ul style="list-style-type: none"> • Construction of HV 11kV and LV 415/240 extensions for township and camp areas • Installed 3 phase 100kVA distribution transformers for the township and camp areas • Extension of 11kV and 415/240 distribution lines from mine power station to mine affected villages and schools 	
SIMBERI MINE (SIMBERI MINING)	ELECTRICAL LINES SUPERVISOR
<ul style="list-style-type: none"> • Construction of new HV 22kV and LV 415/240 distribution lines for the mine • Installed 3 phase 200kVA distribution transformers for the mine operations 	
PNG POWER LIMITED	ELECTRICAL LINES SUPERVISOR
<ul style="list-style-type: none"> • Construction of LV 415/240 extension for the Arawa town, North Solomon • Construction of HV and LV distribution lines at Waghy valley to Mt. Hagen town • HV/LV extension and installation of transformers for Lae township, Morobe province • Construction of HV 11kV and LV 415/240 distribution lines for Namatanai High School, Kavieng, New Ireland 	

MOREA NANDUN

MECHANICAL ENGINEER

EDUCATION QUALIFICATIONS

1986-1989	UNIVERSITY OF TECHNOLOGY- LAE <ul style="list-style-type: none"> BACHELLOR'S DEGREE IN MECHANICAL ENGINEERING
1984-1985	SOGERI NATIONAL HIGH SCHOOL <ul style="list-style-type: none"> GRADE 11 & 12
1980-1983	DARU PROVINCIAL HIGH SCHOOL <ul style="list-style-type: none"> GRADE 7-10
1974-1979	MAKE COMMUNITY SCHOOL <ul style="list-style-type: none"> GRADE 1-6

PERSONAL ATTAINMENTS

Professional Affiliations

1990- Current	INSTITUTE OF ENGINEERS PNG <ul style="list-style-type: none"> CORPORATE MEMBER#- 1429 ENGINEERS REGISTRATION BOARD PNG <ul style="list-style-type: none"> REGISTERED ENGINEER#- 0891
1998- Current	AUSTRALIAN INSTITUTION OF MINING AND METALLURGY, AUSTRALIA <ul style="list-style-type: none"> CORPORATE MEMBER 9807116

RELEVANT WORK EXPERIENCE

OK TEDI MINING LIMITED

Position	Graduate Mechanical Engineer
Period	1990 - 1991
Location	OTML Site wide
Duties	<ul style="list-style-type: none"> Trainee Graduate Development Scheme In-house and on the job training at various locations within the OTML Operations work site (Contracts Administration, Safety, Personal, Warehousing Tabubil, Mine Maintenance, Mine Operations, Mill Maintenance, Haul Trucks/Fleet Maintenance Workshop, Ref/Air-Conditioning Workshop, Ok Menga Hydro power station, Tabubil Training Centre)
Position	Construction Site Engineer
Period	1992 - 1993
Location	Folomian Mill
Duties	<ul style="list-style-type: none"> Responsible for procurement & expediting of project materials to project site from overseas, site engineering and supervision of projects for the successful installation and commissioning of Lime Kiln No. 2 at project cost of PGK 6 million
Position	Utilities Mechanical Engineer
Period	1992 - 1994
Location	Tabubil Town & Ok Menga Hydro Power Station
Duties	<p>Responsible for all mechanical related projects for the Tabubil township & Ok Menga utilities. Duties include all mechanical systems, designs, modifications, maintenance and operations of the following utilities:</p> <ul style="list-style-type: none"> Tabubil town water supply & treatment plant – 2.0 Mega Litres per day capacity Tabubil sewerage treatment plant Tabubil thermal (diesel) Power Station – 46 Mega Watt capacity Ok Menga Francis Type Vertical Shaft Hydro Turbine Power station – 56 Mega Watt capacity Yuk creek pelton type mini hydro power station – 2.0 Mega Watt capacity Mt. Robinson Repeater station Power generation

Position	Utilities Mechanical Engineer
Period	1992 - 1994
Location	Tabubil Town & Ok Menga Hydro Power Station
Duties	<p>Responsible for all mechanical related projects for the Tabubil township & Ok Menga utilities. Duties include all mechanical systems, designs, modifications, maintenance and operations of the following utilities:</p> <ul style="list-style-type: none"> • Tabubil town water supply & treatment plant – 2.0 Mega Litres per day capacity • Tabubil sewerage treatment plant • Tabubil thermal (diesel) Power Station – 46 Mega Watt capacity • Ok Menga Francis Type Vertical Shaft Hydro Turbine Power station – 56 Mega Watt capacity • Yuk creek pelton type mini hydro power station – 2.0 Mega Watt capacity • Mt. Robinson Repeater station Power generation
Position	Mill Mechanical Engineer
Period	1994 - 1998
Location	Folomian Mill
Duties	<p>Responsible for all capital projects, production related project and plant designs and modifications. Some major undertakings include the following;</p> <ul style="list-style-type: none"> • Coordination and supervision of project contractors for the successful installation of 900NB mill overflow steel pipe work for the SAG Mill Unit 1. • Coordination and supervision for the successful raising of roof over SAG Mill Unit 1 & 2 building at project cost of <u>PGK 600,000.00</u> • Procurement and expedite spare parts to site from overseas, coordinate and supervise for the successful change out of D4N Nico Apron Feeder Pans and Chains for the SAG Mill Unit No. 2 at the project cost of <u>PGK 90,000.00</u> • Procurement and expedite to site from overseas new apron feeder, coordinate and supervise project contractors for the successful removal of existing D4N Nico apron feeder pans and chains, modify chute and install new D8N Krupp apron feeder for the SAG mill Unit No. 1 at the project cost of <u>PGK 600,000.00</u> • Design and modify ducting of existing lime kiln plant duct extraction system, purchase and expedite to site equipment and supervise project contractors for the successful installation of a new Flosep filter at project cost of <u>PGK 100,000.00</u> • Supervise project contractors for the successful installation of switch room air pressurization project for the SAG mill Unit No. 1 at project cost of <u>PGK 70,000.00</u> • Design procure and expedite project materials to site from overseas and OTML Warehousing, award contract and supervise project contractors for the successful installation of Sodium Hydrosulfide (NASH) Dosing system for the mill flotation at project cost of <u>PGK 30,000.00</u> • Supervise project contractors for the successful installation of Froth Overflow Launderers for the floatation Unit No. 1 Cells at the project cost of <u>PGK 60,000.00</u> • Design, procure and expedite project materials from overseas to site and OTML Warehousing, award contract and supervise project contractors for the successful installation of furnace diesel fuel supply piping and filtration and calibration system for the Folomian Test Laboratory at project cost of <u>PGK 25,000.00</u> • Design, expedite project materials to site for OTML Warehousing, award contract and supervise project contractors for the successful installation of Air Supply piping system for the floatation circuit at project cost of <u>PGK 50,000.00</u> • Carry out condition monitoring tasks for the various equipment as floatation air blowers, pinion gears for SAG mills, Ball mills and Re grind mills.
Position	Mill Planning Engineer
Period	1999 - 2000
Location	Folomian Mill
Duties	<p>Responsible for all mill planned shut-downs and supervision for the following;</p> <ul style="list-style-type: none"> • Design and develop yearly planners and schedules • Procure and expedite spare parts to site from overseas • Plan and schedule mill plant shut-downs • Coordinate tasks for plant shut-downs by conducting meetings and identifying tasks • Coordinate and shut-down resource requirements

Graduate Level**Date:** 10th March 2009 -12th June 2009**Company:** SouthPac Industrial Training Institution.**Position:** Tutor

- Tutoring Diploma Students in the Electrical & Communications Department.

Date: 15th June 2009 to 20th June 2013**Company:** Digicel PNG Limited**Position:** Radio Frequency (RF) Planning & Optimization Engineer.**Responsibilities/Roles :**

- Frequency Planning for GSM900,GSM1800 & WCDMA
- Assist Field Engineers to trouble shoot Radio Equipment
- Do desktop plan (nominal plan) for Digicel towers to be located
- Survey nominal sites
- Assign parameters to the GSM antennas called Cell Design Data (CDD).
- Physical Optimization and Fine Tuning.
- Monitor daily stats for our 7 BSCs & 2 RNCS with 733 2G sites and 138 3G sites nationwide.
- Do drive test for problem sites as well as benchmarking.
- Drive Testing for Voice & Data to maintain Quality
- Collect Daily Traffic and Peak Traffic on BSC level every-day for previous 24 hours.
- Do weekly KPIs for the cells.
- Identify Faulty Cells that deteriorates the network KPI
- Attempt to customer complains in terms of coverage areas.

Projects:

- PNGSDP – Plan & Survey of 48 sites in Western Province

Achievement:

- Increased/Improved KPIs for the company during phase 5,6,7 & 3G Phase 1,2&3 rollouts as compared to the last 4 phases of rollouts which I was not part of.

Ericsson Training:

- WCDMA W10 Air Interface
- WCDMA W10 Core Configuration

Software used:

TEMs Investigation 8.1,9.1,11.1 & 13.1	TEMs Cell Planner (TCPU)
Nimo	MapInfo
Business Object 13.1.0 (B.O)	Google Earth
OMT	Bandwidth Monitor
Winfiol	Mentum Plannet 5.4
Citrix OSS	Microsoft Excell
Atoll 2.8	Power Point Presentation

DOMINIC RUNDUALI

COMMUNICATION ENGINEER

RADIO FREQUENCY PLANNING & OPTIMIZATION ENGINEER

PERSONAL DETAILS

Name: Dominic Awii Runduali (Mr)

Education: Bachelor in Electrical & Communications Engineering. University of Technology. Papua New Guinea (Unitech). 2008

Objective: To provide and assist in disseminating quality Electrical/Communication Engineering information and skills in a timely manner that will allow me to gain hands on experience and advance professionally and financially.

Professional Membership (Graduate): Institute of Engineers PNG.

Under-Graduate Level

Date: 6th December 2004-27thDecember 2004

Company: Unitech Electrical Services (University of Technology-Lae.

Position: Industrial Trainee

- Assist in electrical Installations around the campus
- Work and assist in drawing up design of switch and circuits

Graduate Level

Date: 10th March 2009 -12th June 2009

Company: SouthPac Industrial Training Institution.

Position: Tutor

- Tutoring Diploma Students in the Electrical & Communications Department.

Date: 15thJune 2009 to 20th June 2013

Company: Digicel PNG Limited

Position: Radio Frequency (RF) Planning & Optimization Engineer.

Responsibilities/Roles :

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Citrix OSS	Microsoft Excell
Atoll 2.8	Power Point Presentation

RUSSEL KAUTU

LICENSE – ELECTRICIAN, INSTRUMENTATION & HIGH VOLTAGE ELECTRICIAN

Russell Kautu, C/ High Artic Services PNG, P.O.Box593, Waigani, NCD PNG,
Mobile:72160200/ Office Phone: 2782405, email address: russell.kautu@gmail.com



Competency Summary

A young self-starter and Result-Oriented industrial, domestic and reticulation installation maintenance planning and implementation technician with over 10 years work experience with New Britain Palm Oil's processing mills. Progressively worked from Trade assistant after a PETT Qualification and Apprenticeship to **Tradesman and now a fully Licensed Electrical Tradesman Technician**. Recently achieved APTC certificate III in Electro technology Electrical systems. After that employed by Azobelle Limited as a license electrical tradesman hired by Ok Tedi Mining at its projects sites. Prior to carrying out electrical jobs at OTML sites, successfully completed OTML Electrical competency assessment test than continue to attend the following Training and proved competent.

- General Safety Induction
- Mine Induction
- Lock Out Tag Out (LOTTO)
- Confine Space
- Work At Heights

Recently Attached with High Artic Services at their Work over unit, Rig 102 with Oil Search Kutubu.

Acquired experience in planning and direct implementation of daily work plans and clearly demonstrated ability to motivate team to maximise productivity and outcome of tasks through most effective use of manpower and available resources. Very successful in trouble shooting and identifying electrical problems, recommendation

Acquired Specific Technical Skills

- Install service and repair of Explosive proof Electrical Accessories and equipment used in the drilling rig operation
- Overhauling and rebuilding of Industrial electrical equipment including 3 phase single speed motors. 3phase 2 speed Demag Crane motors and Welding Machines.
- Industrial Installation including Power Circuits and control Circuits of Star Delta, DOL and Reverse Forward of damage crane 2 speed motors.
- Carry out Preventive Maintenance on all Electrical Equipment.
- Domestic Installation including house wiring, service and repair of Electrical accessories and house hold equipment.
- Reticulation Installation, erecting Power Poles, running HV and LV line, service lines to entry box.
- Maintain service and repair of HV and LV lines to service lines and entry box.
- Fully knowledgeable on Oxy and acetylene cutting and welding jobs.

Page 1 of 4

Russell Kautu, C/ High Artic Services PNG, P.O.Box593, Waigani, NCD PNG,
Mobile:72160200/ Office Phone: 2782405, email address: russell.kautu@gmail.com



Work Experience Summary

August 02 2012 – Current

Licensed Electrical Tradesman – High Artic PNG Limited

March 26th 2012

Licensed Electrical Tradesman –Azobelle Limited, Western Province

December 2010

Licensed Electrical Tradesman –New Britain Palm Oil, WNPB

Responsibility Summary

- Install, maintain and repair Explosive proof electrical Equipment and accessories during rig up and rig down.
- Monitor and carryout Preventive maintenance on Standalone generators on rig and camp sites.
- Conduct Industrial Wiring diagrams of Power and Control Circuits
- Install Automatic change over switch for Standalone generator and main Power supplies using wireless controls.
- Fabricate and install PVC ducting fibre glass and cable ladders.
- Installing fiber optic and power cables for Cameras
- Carry out Test and Tag
- Read & diagnose Industrial wiring plans diagrams and perform installation.
- Conduct maximum Demand Calculation Of cables, Voltage Drop and Maximum Circuit Lengths Choosing suitable cable sizes.
- Install Service Maintain and repair Industrial Electrical Equipment and accessories for domestics and lines work.
- Supervise and Train Apprentices and trade Assistants Diagnose and Trouble shoot all electrical faults, including controls and power Circuits of:
 - a) Star Delta, DOL and Reverse Forward slow, fast of Demag Cranes
 - b) Hydraulic Power pack controls.
 - c) Pneumatics manual and PLC Controls.
- Carrying Out the following Test On all New Industrial and domestic Installations.
 - a) Visual Test
 - b) Earth Continuity Test
 - c) Polarity
 - d) Correct Circuit Connections
 - e) Fault Loop Impedance Test
 - f) RCD Test

Page 2 of 4

Russell Kautu, C/ High Artic Services PNG, P.O.Box593, Waigani, NCD PNG,
Mobile:72160200/ Office Phone: 2782405, email address: russell.kautu@gmail.com



Russell Kautu, C/ High Artic Services PNG, P.O.Box593, Waigani, NCD PNG,
Mobile:72160200/ Office Phone: 2782405, email address: russell.kautu@gmail.com



January 2005 –January 2008 Apprenticeship New Britain Palm Oil Limited

Responsibility Summary

- Install service and maintain all Electrical Equipment:
 - a) 3Phase Motors.
 - b) 3phase Welding Machine.
 - c) Steam Turbine and caterpillar gen set.
- Service and repair of Domestic Installation Accessories and Lines Work.

February 2002- December 2004 Trade Assistant New Britain Palm Oil Limited

Assist senior Tradesman and senior Semi skill in the service, repair and maintain of Industrial Electrical Equipment's, Domestics and Reticulation Installations.

Referees

Geoffrey Koibua	Azobelle Workshop Supervisor	Phone: 649 9385
Kerry Taboru	Mill Manager	Phone: 985 6072 Mobile: 7207 1682
Camillus Hubert	Workshop Mechanical /Electrical Superintendent	Phone: 985 7606 Mobile: 7719 37461
Kelly Tolewa	Mill Engineer	Phone 985 606 Mobile: 7235 0451
Tomarum Marisa	Supervisor	Phone: 985 6072 Mobile: 7294 9968
Glynden Ote	Mill Engineer	Phone 985 6072 Mobile: 7333 4348

Page 3 of 4

Educational Qualifications

- Grade 12 Higher School Certificate 1997 Hoskins Secondary
- Achievement Certificate In Computer Studies Competition with Australian Schools 1997
- Grade 10 High School Certificate 1995 Hoskins Secondary

Carrier Enhanced Development Achievements

- PETT PETT Certificate 1998 Port Moresby Technical College
- Apprenticeship Trade Certificate – Electrical Mechanic 2008 Port Moresby Tech College
- Certificate C.P.R Certificate in passing Cardio Pulmonary Resuscitation APTC POM
- Certificate III Electro Technology Systems Electrical APTC Campus POM
- Full PNG Power License
- Working At Heights Permit
- Confine Space Permit
- Lock Out Tag Out Permit (LOTTO)

Computer Skills

- Computer skills on Microsoft office Word and Excel 2007.
- Electronic Calculation of Maximum Demand using PowerPCs software.

Personal Qualities

- **Understanding Business** – Good understanding of organizational structure and operations; aware of own contribution. Identifies and responds to stake holders needs. Up to date understanding of business situation and working knowledge of strategy.
- **Problem Solving** - Professional skills used to successfully analyze and trouble shoot and resolve problems
- **Leadership** – Strong leadership qualities, providing direction and continuously helping team members
- Have an eye for Improvement and personal development, and the desire& determination to succeed & excel
- Organized, methodical and responsible work habits, able to meet deadlines

Page 4 of 4

ELECTRICAL LICESES & CERTIFICATES

PNG POWER ELECTRICAL INSPECTORS LICENSE



Electrical Inspectors Certificate



No.: **249**

This is to Certify that

LOU VANI

has fulfilled the requirements for qualification as an Electrical Installation Inspector pursuant to the rules, regulations and requirements of the PNG Power Limited.


The holder of this certificate is qualified to carry out the inspection of all electrical installations and appliances for and on behalf of PNG Power Limited within Papua New Guinea.

Date of Issue: 16/8/2010

Signature of Holder

CHIEF EXECUTIVE OFFICER

PNG POWER HIGH VOLTAGE (HVS0) LICENSE

 **PNG POWER Ltd**

**H.V. OPERATING AUTHORITY
CLASS TWO**

No: **111**


This is to certify that the undermentioned employee is authorised to carry out H.V. Operating on the Commission's Electrical apparatus in the centre designated below in accordance with the provisions of the Electrical Safety Rules and conditions stated on the back of this Authority.

NAME: **LOU VANI**

I.D.: _____

OPERATING CENTRE: **GENERAL**

DATE OF ISSUE: **13-09-13**


DOUGLAS MAGEO
GENERAL MANAGER
SYSTEM OPERATION

 **PNG POWER Ltd**
PPL Training Centre

National Training Council Registration No. NTC 167.

Cerfication of Completion

This is to certify that

LOU VANI

Has successfully completed the **HVS0** course
conducted on the 09 -13 September, 2013

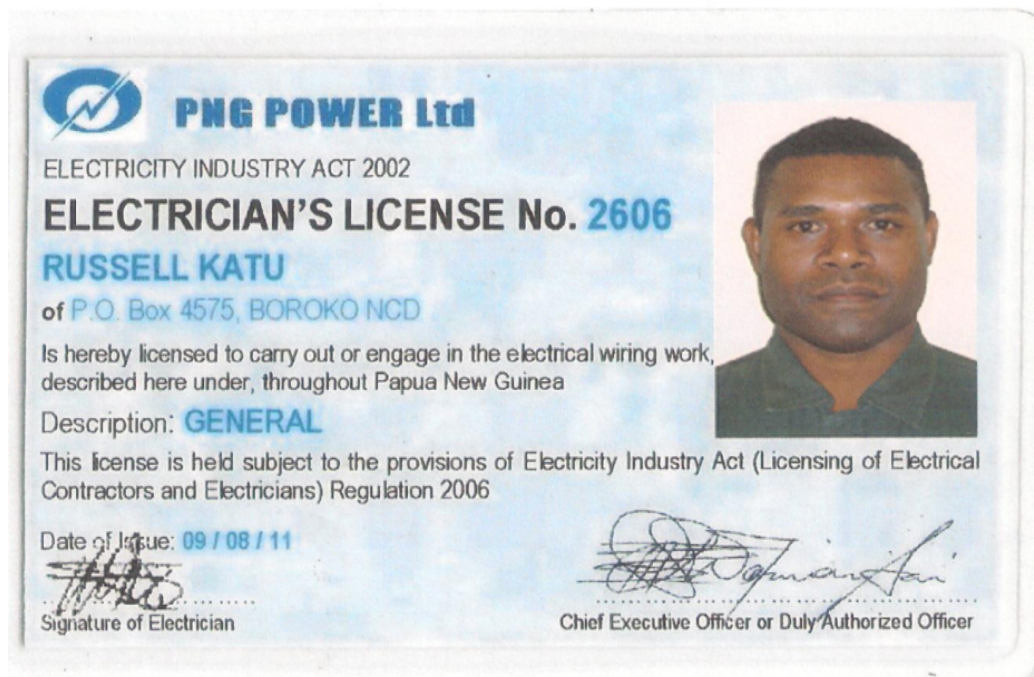
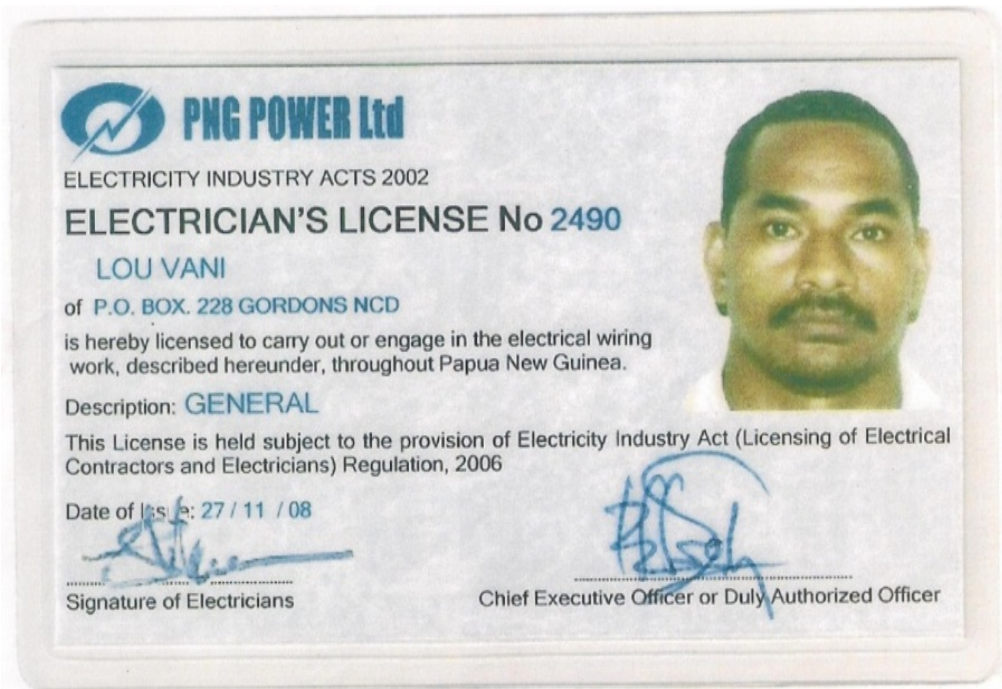

Toua Gani
Facilitator


Douglas Mageo
GMS0


Certificate Holder
Cert # **111**



PNG POWER ELECTRICIANS LICENSE



PNG POWER ELECTRICAL LINESMAN LICENSE

7265


Papua New Guinea

Apprenticeship Act 1967-1970
CERTIFICATE
of Completion of Training


This is to Certify that —
.....ROBINSON LAKAS.....

of.....PAPUA NEW GUINEA ELECTRICITY COMMISSION.....
has successfully completed an apprenticeship under the
Apprenticeship Act 1967-1970, in the trade of
.....ELECTRICAL LINESMAN.....
and has passed the Examinations prescribed by that Act in respect
of that Trade.
He has attained the required proficiency of an apprentice of
like experience.
Dated at.....PORT MORESBY.....this.....FOURTH.....day of
.....FEBRUARY.....19 82.....

.....
Chairman Apprenticeship Board
.....
Signature of Holder

Great Print — 11240 to 500 — 19 82

Certificate No. LL429


PAPUA NEW GUINEA ELECTRICITY COMMISSION
ELCOM TRAINING COLLEGE

This is to Certify that
ROBINSON LAKAS
Class 3 Linesman
successfully completed
A LOW VOLTAGE LIVE LINE COURSE
of 8 weeks, or 1400 hours, full time instruction
with an assessment of
Practical "B" Pass..
Theory "A" Pass..
Dated: 9th September, 1983

.....
PRINCIPAL

CERTIFICATE IN ELECTROTECHNOLOGY

APTC
AUSTRALIA-PACIFIC
TECHNICAL COLLEGE
CREATING SKILLS FOR LIFE

**Certificate III in
Electrotechnology Systems
Electrician**
COURSE CODE: UEE30807

AWARDED TO
Russell Kautu

HAS SUCCESSFULLY COMPLETED THE REQUIREMENTS OF THE AWARD AT
THE AUSTRALIA-PACIFIC TECHNICAL COLLEGE UNDER THE AUSPICES OF
SUNSHINE COAST INSTITUTE OF TAFE

THE QUALIFICATION CERTIFIED HEREIN IS RECOGNISED
WITHIN THE AUSTRALIAN QUALIFICATIONS FRAMEWORK.

AWARD NUMBER: 511890201
PROVIDER NUMBER: 0418
09 May 2011

GENERAL MANAGER, APTC
INSTITUTE DIRECTOR, SUNSHINE COAST INSTITUTE OF TAFE

TAFE Queensland
Queensland Government
Department of
Education, Training and the Arts

SUNSHINE COAST
TAFE

AN AUSTRALIAN GOVERNMENT INITIATIVE

APTC
AUSTRALIA-PACIFIC
TECHNICAL COLLEGE
CREATING SKILLS FOR LIFE
Russell Kautu
Kapiura Oil Mill

**Sunshine Coast
TAFE**

Award Elements List

KIMBE Papua New Guinea

Russell Kautu
Student Number: 9109232510

has successfully completed the following competencies/courses that contributed to the award

UEE30807	Certificate III in Electrotechnology Systems Electrician
UEENEEA010	Assemble, mount and connect switchgear and control gear
UEENEEC020	Participate in electrical work and competency development activities
UEENEEED001	Use basic computer applications relevant to a part 2.10 - computer systems units workplace
UEENEEEO001	Apply OHS practices in the workplace
UEENEEEO002	Dismantle, assemble and fabricate electrotechnology components
UEENEEEO003	Solve problems in extra-low voltage single path circuits
UEENEEEO004	Solve problems in multiple path d.c. circuits
UEENEEEO005	Fix and secure equipment
UEENEEEO007	Use drawings, diagrams, schedules and manuals
UEENEEEO008	Lay wiring/cabling and terminate accessories for extra-low voltage circuits

Note: Not all competencies/courses may have been completed at
Sunshine Coast Institute of TAFE
National provider number: 0418
Refer to Academic History for full details of study

General Manager, APTC
Institute Director, Sunshine Coast Institute of TAFE

09 May 2011
AUSTRALIA-PACIFIC TECHNICAL COLLEGE
Page 1
CRICOS Number: 020048

APTC
AUSTRALIA-PACIFIC
TECHNICAL COLLEGE
CREATING SKILLS FOR LIFE
Russell Kautu
Kapiura Oil Mill

**Sunshine Coast
TAFE**

Award Elements List

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Russell Kautu
Student Number: 9109232510

has successfully completed the following competencies/courses that contributed to the award

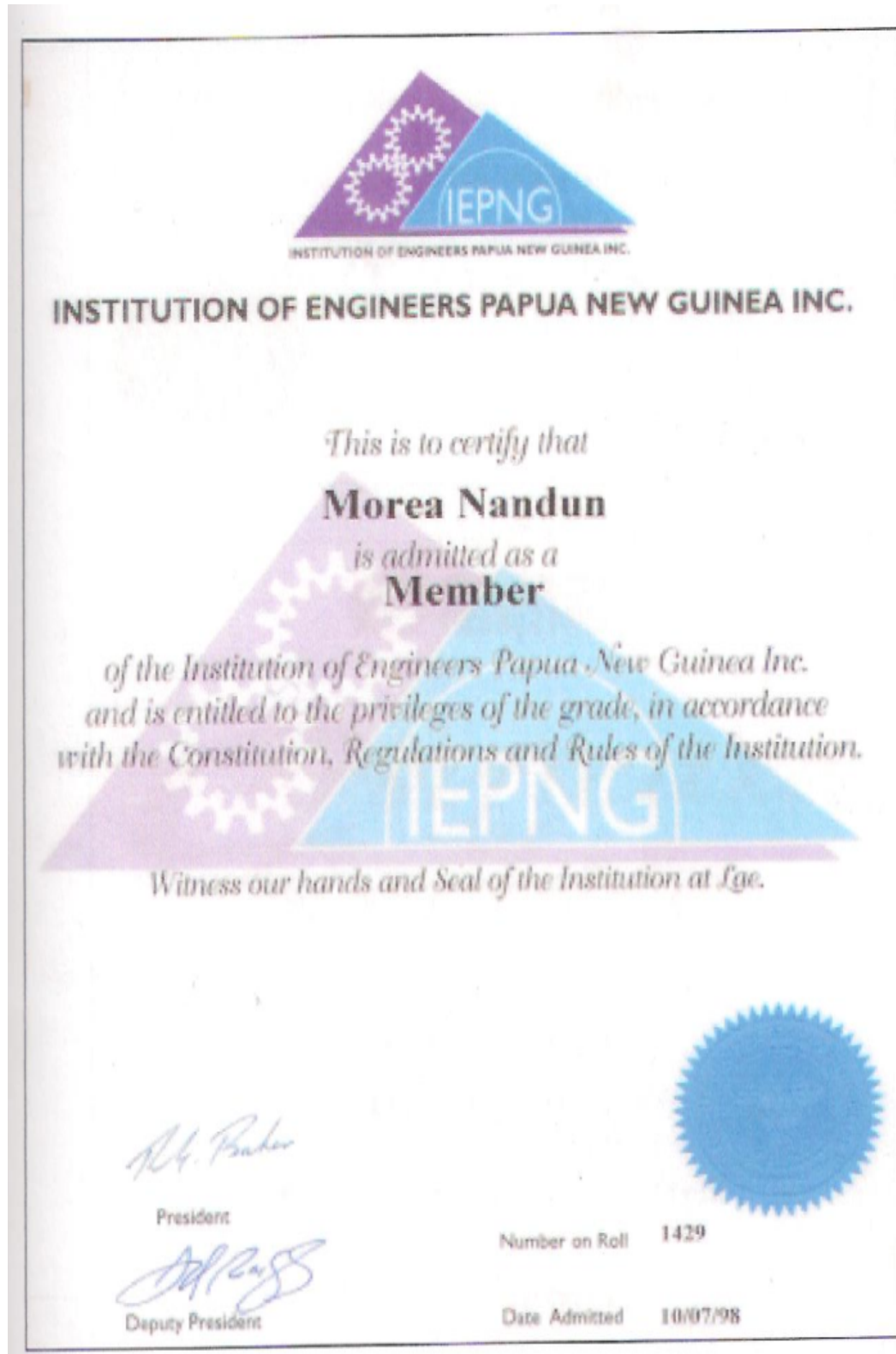
UEE30807	Certificate III in Electrotechnology Systems Electrician
UEENEEEO009	Comply with scheduled and preventative maintenance program processes
UEENEEEO033	Document occupational hazards and risks in electrical
UEENEEEG001	Solve problems in electromagnetic circuits
UEENEEEG002	Solve problems in single and three phase low voltage circuits
UEENEEEG003	Install wiring and accessories for low voltage circuits
UEENEEEG004	Install low voltage electrical apparatus and associated equipment
UEENEEEG005	Verify compliance and functionality of general electrical installations
UEENEEEG007	Select and arrange equipment for general electrical installations
UEENEEEG008	Find and repair faults in electrical apparatus and circuits
UEENEEEG009	Develop and connect control circuits

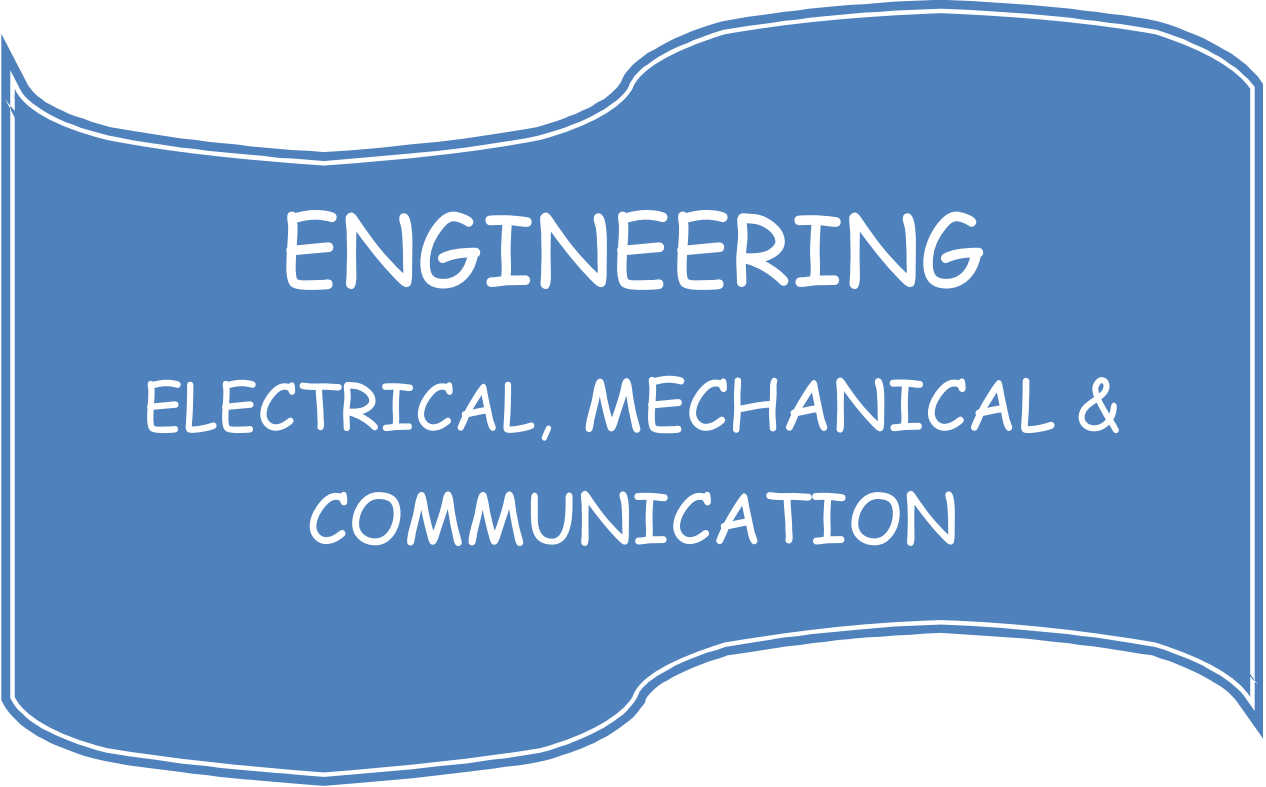
Note: Not all competencies/courses may have been completed at
Sunshine Coast Institute of TAFE
National provider number: 0418
Refer to Academic History for full details of study

General Manager, APTC
Institute Director, Sunshine Coast Institute of TAFE

09 May 2011
AUSTRALIA-PACIFIC TECHNICAL COLLEGE
Page 2
CRICOS Number: 020048

INSTITUTE OF ENGINEERS PNG



A blue banner with a wavy, hand-drawn style border. The banner is centered on the page and contains the text 'ENGINEERING ELECTRICAL, MECHANICAL & COMMUNICATION' in white, uppercase, sans-serif font.

ENGINEERING

ELECTRICAL, MECHANICAL & COMMUNICATION



THE PAPUA NEW GUINEA
UNIVERSITY OF TECHNOLOGY

We hereby certify that

Dominic Runduali

*having passed the Examination and fulfilled
the other requirements has this day been*

Awarded the
**BACHELOR OF ENGINEERING IN ELECTRICAL
ENGINEERING (COMMUNICATION)
(WITH MERIT)**

*In token thereof the Council has authorised the
Corporate Seal of the University to be
hereunto affixed*

Vice-Chancellor



Registrar

Dated this 18th day of April
Two thousand and eight



THE PAPUA NEW GUINEA
UNIVERSITY OF TECHNOLOGY

We hereby certify that

Dominic Awii Runduali

*having passed the Examination and fulfilled
the other requirements has this day been*

Awarded the
**DIPLOMA IN ELECTRICAL
ENGINEERING (COMMUNICATION)**

*In token thereof the Council has authorised the
Corporate Seal of the University to be
hereunto affixed*

Vice-Chancellor



Registrar

Dated this 7th day of April
Two thousand and six



THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Attendance

This is to certify that

LOU VANI

has attended the

**"INTRODUCTION TO
INDUSTRIAL ELECTRONICS"**
Short course from the 15th - 19th November 2010

conducted by the

**DEPARTMENT OF ELECTRICAL
ENGINEERING**

MR. SAMMY AMMUN AIAU
COURSE INSTRUCTOR

JOHN PUMWA, Ph.D.
PROFESSOR AND
HEAD OF DEPARTMENT

Date: 19-11-2011

Date: 19-11-2011



THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY
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MR. SAMMY AMMUN AIAU
COURSE INSTRUCTOR

JOHN PUMWA, Ph.D.
PROFESSOR AND
HEAD OF DEPARTMENT

Date: 19-11-2011

Date: 19-11-2011



8th May, 2025

Date of Award



DIPLOMA

LOU VANI

has received this award for successfully
completing the course:

Diploma in Electrical Studies

To verify:



1270-48361968

<https://alison.com/certification/check/40ab6ea806>

Maere Richardson

Director of Certification



11th May, 2025

Date of Award



DIPLOMA

LOU VANI

has received this award for successfully
completing the course:

Diploma in Electrical Technology

To verify:



5766-48361968

<https://alison.com/certification/check/e614f8a2b4>

Maere Richardson

Director of Certification



THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY

We hereby certify that

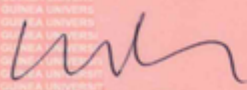
Sinaka Kohu

*having passed the Examination and fulfilled
the other requirements has this day been*

Awarded the

**BACHELOR OF ENGINEERING
IN CIVIL ENGINEERING**

*In token thereof the Council has authorised the
Corporate Seal of the University to be
hereunto affixed*


Vice-Chancellor


Registrar

Dated this **20th**

day of **April**

Two thousands and **seven**



Mapúa Institute of Technology

upon the recommendation of the Faculty
hereby confers on

Jonathan Magaling Calina

the Degree of
Bachelor of Science
in

Electrical Engineering

with all the Rights and Privileges thereto pertaining in recognition of his having fulfilled
all the requirements for such degree as prescribed by the Institute.

Given under the seal of the Institute this 15th day of October 2004 in Manila, Philippines.



Dean of the School of EE-ECE-CoE

President of the Institute

Mapúa Institute of Technology

upon the recommendation of the Faculty
hereby confers on

Jonathan Magaling Calina

the Degree of
Bachelor of Science
in

Electronics and Communications Engineering

with all the Rights and Privileges thereto pertaining in recognition of his having fulfilled
all the requirements for such degree as prescribed by the Institute.

Given under the seal of the Institute 19th day of April 2001 in Manila, Philippines.



Dean of the School of ECE

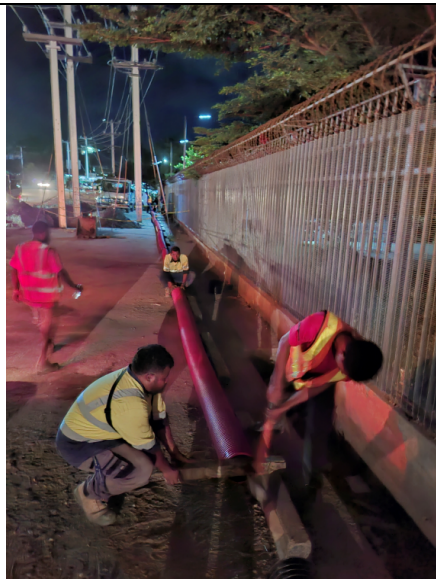
President of the Institute



PHOTOS

LOCAL PROJECTS

11KV HV PROJECT FOR KILAKILA SUB-STATION

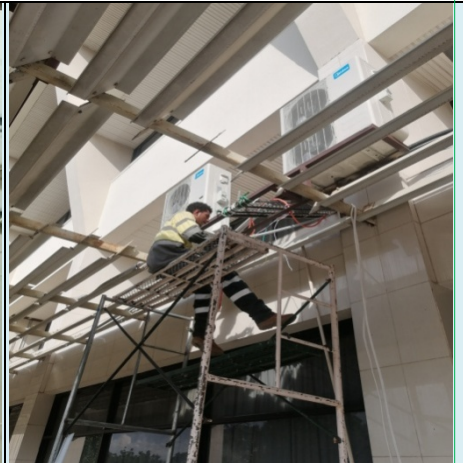




Rewiring switchboard



Installing new circuit breakers



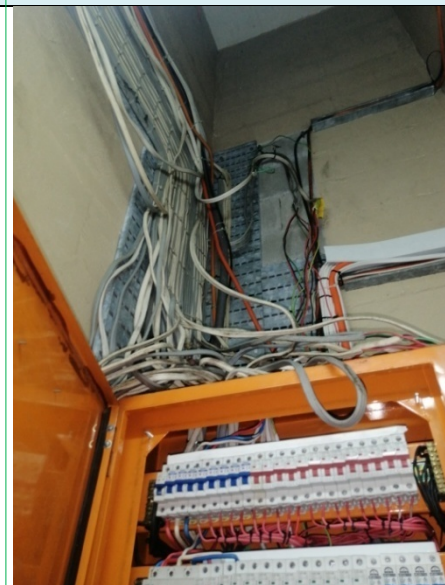
Running power supply for A/C units



Conducting Insulation Test for the A/C units power supply cables



Replacing faulty lights



PNG POWER PROJECT - 66/11 kV SUB-STATION, KILAKILA



Cable preparations of 11kV transformer



Terminating Neutral conductor on 66/11kV transformer



Terminating 95mm² HV cable for 11kV transformer



Cable preparations of transformer main Neutral



Termination of 630mm² HV cable for 66/11 TX-1



Cable preparations for 630mm² HV cable for 66/11 TX-2



11kV HV cable preparations



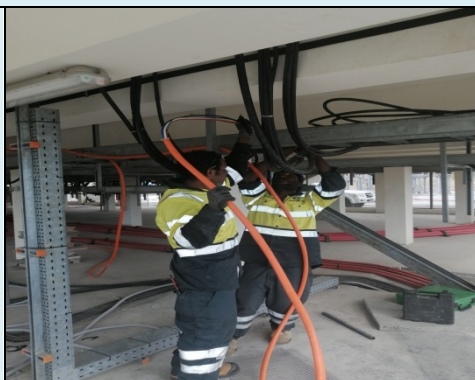
Making cable entry for sub distribution boards



Laying 11kV cables on cable ladders



Wiring of power and control boards for A/C split units



Running power supply for distribution boards



Test engineers confirming correct phases



11kV HV cable termination preparations



Terminated 11kV HV cables



Wiring of A/C Control boards

PNG POWER PROJECT- INSTALLATION OF 166 MINIMUM SUPPLY KITS, CENTRAL PROVINCE



PNG Power making awareness to MSK customers



PNG Power CEO, COO & Contractor



PNG Power Projects Team



MSK customers and PNG Power CEO



Witnessing MSK energizing by the PNG Power CEO



PNG Power media team



Energizing MSK units by the PNG Power CEO



Logistics of MSK units



Installing MSK units



Installing MSK units



Installing easypay meters



Installing main earth



MAIN EARTHING WORKS FOR MSK HOUSES



STRINGING OF SERVICE LINES TO HOUSES



STRINGING OF ABC CABLE TO MAIN PNG POWER POLES



Test & Commissioning MSK units



Exterior Electrical Works



Inserting HRC Pole Fuses

HUAWEI PROJECT-TELECOM EQUIPMENT (TE) INSTALLATION WORKS FOR MADANG SITES



Assembling the Main Link microwave



Installation of Communication cabinet



Assembling of Sector Antennas



Wiring of Power Cube and Battery Banks



Wiring of Genset Controls



Cabling works for Radio Receiving Units



Installation of Microwave antennas



Conducting Earthing Tests for tower footings

HUAWEI PROJECT- POWER & COMMUNICATION WORKS FOR AIR-NIUGINI SITE, POM



Connecting power supply for CCTV camera & Security flood lights



Wiring of 90kVA Genset



Installing CCTV camera and flood lights

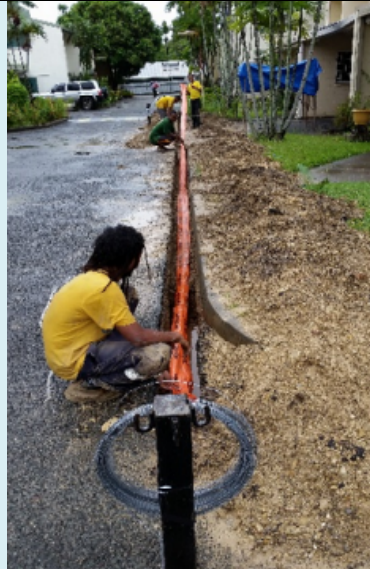


Cabling works for CCTV camera & flood lights



Photos of the completed installations above

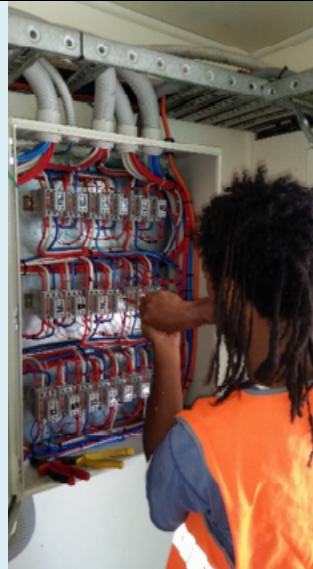
ELECTRICAL WORKS AT TELIKOM RESIDENTIAL PROPERTIES



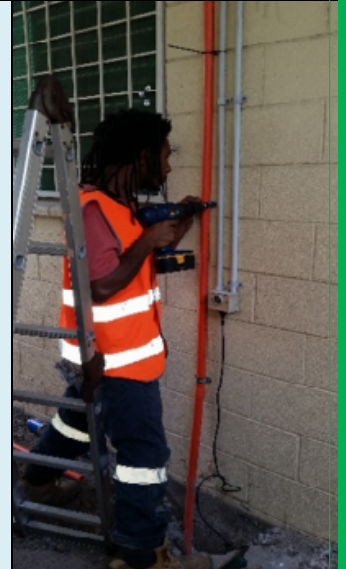
Trenching and conduit works



Easypay meter installation



Installation of Change-over contactors



Having power supply to the residential flats

REFURBISHMENT WORKS FOR PORT MORESBY TENNIS CLUB



Laying electrical tape for underground conduits



Insertion of DB supply cables into conduit



Using dumpy level for courtyard lightings foundations



Pouring concrete onto foundation base for court yard lightings



Finishing works on concrete base

ELECTRICAL INSPECTIONS AT RESIDENTIAL & OFFICE BUILDINGS, POPONDETA



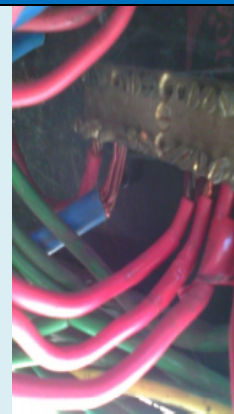
Unsafe bare live wires from genset mains



Untidy wiring of Main Switchboard



Using copper wire as HRC Fuse



Loose connections



Unsafe & Unprotected live conductors

ELECTRICAL WORKS AT MT.HAGEN B-MOBILE EXCHANGE BUILDING



Earth Resistance Test on tower footings



Laying Earthing Grid on tower footings



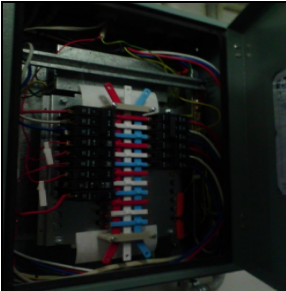
Earthing the building structure



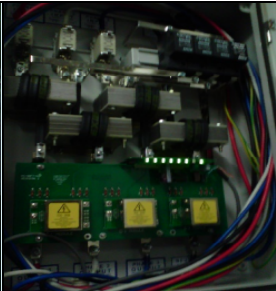
Earthing of tower footings



Wiring of MSB



Upgraded Main Switchboard



Installed new 1250 Amps Surge Reduction Filter



Internal wiring of lighting and power



Installed new Split Air-Conditioning systems



Installation of 90kVA Generator with ATS system

ELECTRICAL WORKS AT LAE B-MOBILE EXCHANGE BUILDING



PROJECT PHOTOS

International Projects

- Our products being used in some major projects overseas

SOLAR POWER Projects

Moldova



Moldova 2MW Solar Plants

Time: 2021
Capacity: 2MW
Type: On-Grid

Bosnia and Herzegovina

BIH 1MW Solar Plants

Time: 2020
Capacity: 1MW
Type: On-Grid



Argentina



Argentina 100KW Solar Plants

Time: 2019
Capacity: 100KW
Type: Hybrid

Netherlands

Netherlands 600KW Solar Plants

Time: 2020
Capacity: 600KW
Type: On-Grid



New Zealand



New Zealand 66KW Solar Plants

Time: 2021

Capacity: 66KW

Type: On-Grid

Barbados

Barbados 8MW Residential projects

Time: 2020

Capacity: 8MW

Type: On-Grid



Qatar



Qatar 5MW Solar Plants

Time: 2021

Capacity: 5MW

Type: On-Grid

Macedonia

Macedonia 150KW Solar Plants

Time: 2019

Capacity: 150KW

Type: Off-Grid



SMART STREET LIGHTING Projects



Shenzen Outer Ring Expressway



The 1st Phase of 92.86km 6 Lane Expressway Standard



The 2nd Phase of 92.86km 6 Lane Expressway Standard

Simplify operations and management, improve maintenance timeliness, on-demand lighting, energy saving and emission reduction



Automatic Dimming according to Natural Light Intensity. Perfect Solution for the Black & White Tunnel Effects



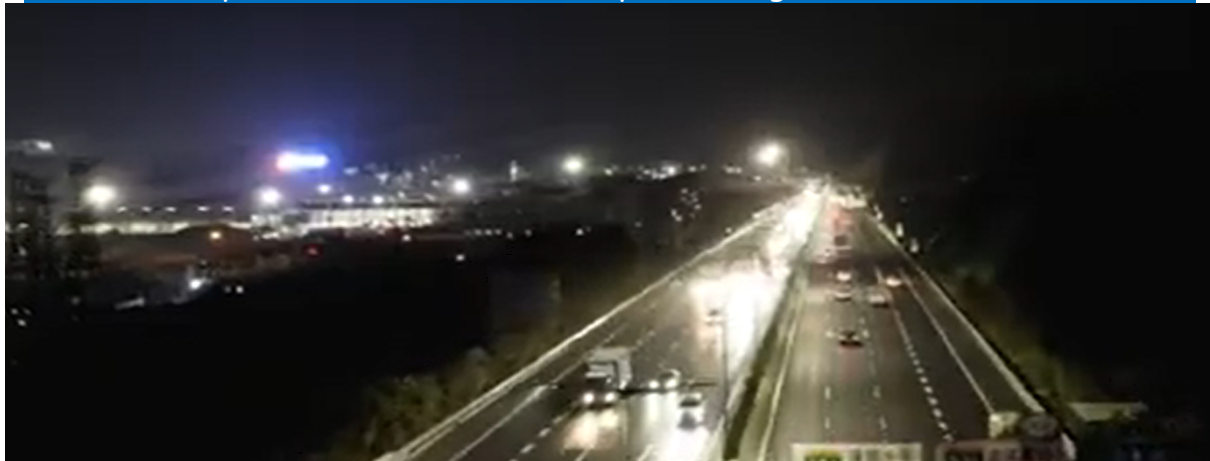
Linked with a Vehicle Detection Sensor;
When vehicle passes through, it automatically goes to Dimming according to
natural light intensity



When there is No Vehicle passing, it returns to a safe illuminance



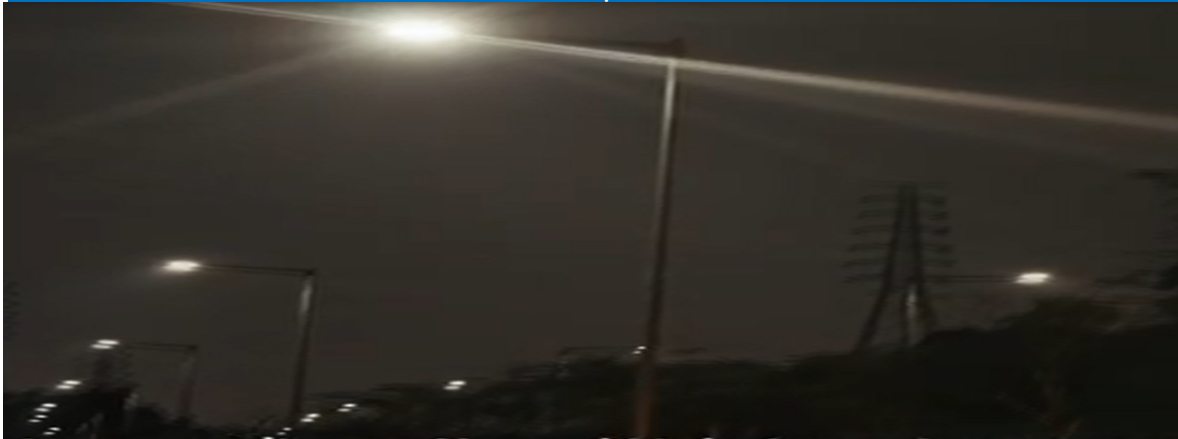
Automatically Turns ON & OFF the lamp according to the Sunset and Sunrise



Automatically Dimming according to the Set Scene Timing



Automatically Dimming according to Natural Light Intensity
Automatic Turn ON & Emergency Lighting in abnormal weather (such as heavy clouds, heavy rain, etc)



With the help of Shenzhen Outer Ring Expressway Platform, the System Integrates Control Module, Expert Analysis Module, Energy Consumption Monitoring Module, Emergency Module



Fully demonstrates the advanced technology and scheme of the system and helps the Outer Ring Expressway Management Team to lay the foundation for the development and popularization of Intelligent Street Lighting

