

COMPANY PROFILE



G&P DAMS & WATER SERVICES SDN BHD

(875291T)

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Company Philosophy

VISION

To Obtain the Hallmark for Quality Services, Technical Excellence, Reliability and Integrity.

OBJECTIVES

To provide value-added consultancy services & innovative engineering solutions to meet clients' satisfaction with due care for sustainable environment and society.

VALUES

We Value Our Staff for Their Creativity & Commitment to Quality.

We provide the Best Solution for Our Clients.

We Uphold Integrity in All Our Dealings with Our Clients and Vendors.

The Company

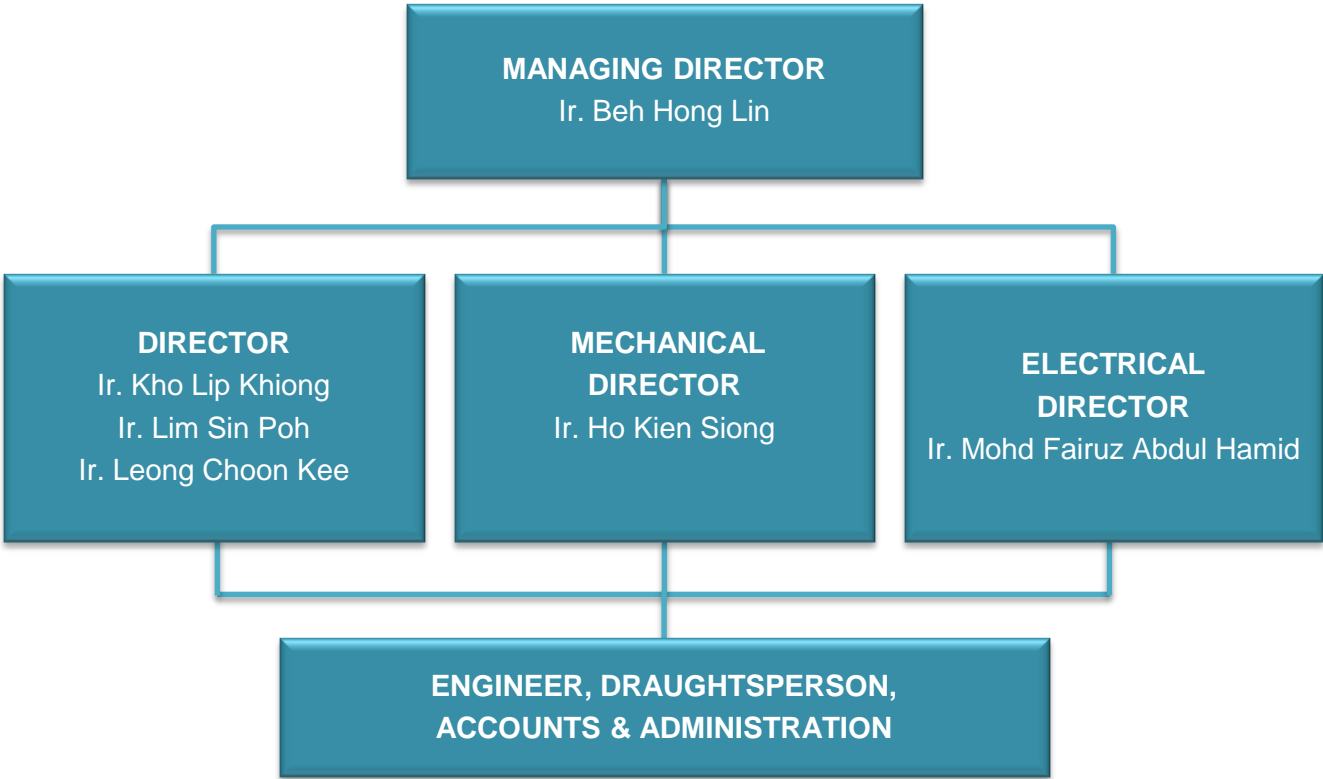
G&P DAMS & WATER SERVICES SDN BHD is a specialist providing wide range of services on dam engineering, water treatment and distribution. We specialize in feasibility studies, detailed design and construction stage management pertaining to dam and water supply engineering.

Our Services

We provide specialized engineering services in water engineering to both private and public sectors covering the following areas:-

- Feasibility Studies for Dam Design
- Design of Dams (in association with international experts)
- Routine Dam Safety Inspection
- Dam Surveillance and Monitoring
- 5-year Dam Safety Inspection
- Dam Break Study
- Emergency Response Plan
- Feasibility Studies of Water Supply Schemes
- Construction Stage Management
- Detailed Design of Water Treatment Plant and Distribution Systems

G&P Dams & Water Services Sdn Bhd Organization Chart



Key Personnel

Ir. BEH HONG LIN

KEY EXPERIENCE

Hong Lin is a registered Professional Engineer, Malaysia and a Chartered Engineer, UK. Hong Lin has more than 36 years' experience in the planning, design, implementation and contract administration of large scale water treatment plants throughout the Malaysian peninsular. His area of specialties includes:

- Planning, feasibility and detailed design of water supply schemes
- Water treatment process
- Pipelines and pump stations
- Project management and contract administration



POSITION

PROJECT DIRECTOR

QUALIFICATION

B.E. (Civil), University of Canterbury, New Zealand, 1980

PROFESSIONAL MEMBERSHIP

- Registered Professional Engineer, Malaysia (P.Eng.)
- Member of Institution of Engineers, Malaysia (MIEM)
- Chartered Engineer, Engineering Council, U.K. (C Eng)
- Member of Institution of Civil Engineers, U.K. (MICE)
- Professional Member of Institution of Professional Engineers New Zealand (MIPENZ)
- Member, Association of Consulting Engineers Malaysia (MACEM)
- Member, Malaysia Water Association (MMWA)

EXPERIENCE

Selected Project Experience

Duration *September 2010 - Present*

Employer *G&P Dams & Water Services Sdn Bhd*

Position *Managing Director*

Projects Involved:

- Business development, management and operation of the company.
- Project Manager Feasibility Study for the Proposed Development Of Betong Raw Water Source, Bahagian Betong, Sarawak.
- Project Manager for Design & Build Project for Full Refurbishment Works at Pedu Dam, Muda Agricultural Development Authority (MADA), Kedah Darul Aman, Malaysia.

- Project Director for the design and construction supervision of Sg Labu and Sg Langat 50 Mld Intakes for Hartalega NGC Raw Water Source Works valued at RM 15 million.
- Project Director for the design of 180 Mld Lahad Datu Water Supply System valued at RM 400+ million.
- Project Manager for Projek Bekalan Air Luar Bandar di Negeri Sarawak Tahun 2010-2012, providing technical support to local consultants for design input and provision of review, check and added value to design.
- Deputy Project Director for Consulting Services for Proposed Sg Renggit/Pengerang Distribution Improvement, Rehab of Bkt Tempayan Reservoir and Sg. Sayong Sludge Treatment Facility.
- Deputy Project Director for Miri Water Supply Source Development.
- Project Director for Review of Treatment Process Improvement of Tianchang WTP, China.
- Project Director for River Bank Filtration Project of Loji Kota Lama Kiri, Kuala Kangsar.

Duration *December 2006 - July 2010*

Employer *GHD Perunding Sdn Bhd*

Position *Service Group Manager - Water and then Technical Director - Water*

Projects Involved:

- Business development, management and operation of the Water service group of the Malaysian office.
- Project Director for the Malut Dam Safety Inspection for Taliworks Sdn Bhd.
- Project Director for the Aberglasslyn Wastewater System upgrade for Hunter Water Board, Newcastle. Works include upgrading of pumping stations and trunk sewers.
- Project Director for the Asset Management, GIS and Network Modelling for Sibu Water Board, Sarawak.
- Project Director for the detailed design of Mudjee Sewage Treatment Plant and pumping main.
- Lead Design Manager for Perak Groundwater Development Project. Works include the design of 50Mld groundwater treatment plant and the pumping main.

Duration *May 2004 - December 2006*

Employer *GHD Limited, New Zealand*

Position *Principal Water Treatment Engineer*

Projects Involved:

- Design Manager for the Upgrading of Hamilton Water Treatment Station. Upgrading works include Granular Activated Carbon Filters, UV treatment and provision for future Ozone treatment.
- Lead Design Engineer for Whangarei Heads Sewerage Scheme Stage 3.
- Design of pump station, rising and community mains for Taupiri Wastewater Reticulation Project.

- Investigation, design and supervision of upgrading works for Metrowater's wastewater and stormwater pump stations as part of O,S&H Upgrades.

Duration *January 2002 - April 2004*

Employer *Angkasa Consulting Services Sdn Bhd*

Position *Associate Director*

Projects Involved:

- Project Manager for the design of the Muda River Water Scheme 4A, valued at RM300 million. The scheme included the 450 Mld Sungai Dua water treatment plant extension using DAF clarifiers and dual media filters, new Lahar Tiang pumping station, widening of Sg Dua Canal, new low and high lift pumping station and a sludge dewatering plant.
- Independent Consulting Engineer (ICE) for Sg. Selangor Water Supply Phase 3, providing independent engineering review of the treatment plant design.
- Project Manager for the design of the 100 Mld Bintulu Phase 3 water treatment plant valued at RM75 million. It incorporated the in-filter DAF process with dual media filter. Works also involved upgrading of intake tower at existing Sika Dam.
- Providing construction stage services and contract administration.

Duration *July 1994 - December 2001*

Employer *Angkasa GHD Engineers Sdn Bhd*

Position *Associate*

Projects Involved:

- Project Manager for the design of a 230 ML/d Kinta water treatment plant in Ipoh, Malaysia. The plant included the in-filter DAF process.
- Project Manager for the design of a 120 ML/d Bertam water treatment plant in Malacca. The plant included the DAF process.
- Project Manager for the design of the 106 Mld Hilir Perak water treatment plant valued at RM60 million, with provision for expansion to 159 Mld. It involved the inclined plates clarification process.
- Project Manager for the rehabilitation and upgrading of Sg Langat water treatment plant, valued at RM50 million, increasing the output from 386Mld to 477 Mld.
- Project Manager for the upgrading of Bukit Sebukor water treatment plant increasing the output from 36 Mld to 73 Mld. It involved stainless steel lamella plates clarifiers and upgrading chemical dosing system to bulk handling.
- Water distribution network study for Kluang town and recommendation of improvement.
- Design Manager for the treatment process and pumping equipment for Kemaman water treatment plant extension.

Duration **September 1990 - June 1994**
Employer **Bina Runding Sdn Bhd**
Position **Senior Water Supply Engineer**

Projects Involved:

- Project Manager for the upgrading of Gombak treatment plant to increase output from 24 Mld to 36.5 Mld. Existing clarifiers and filters are upgraded using lamella plates and dual media respectively.
- Project Manager for the operation and maintenance training consultancy for Johor Water Works. Visited 27 treatment plants in the various districts in Johor, evaluating the effectiveness of current water treatment procedures. Recommendations were made on the modification to plant, improvement in monitoring and scientific control of the treatment process. Conducted training sessions in laboratory testing procedures for operators and technicians.
- Design Manager for the design and administration of contracts for the rehabilitation and upgrading of Sg. Lebam treatment works, valued at RM14 million, to increase the output from 27.3 Mld to 54.6 Mld. It involved one of the first Dissolved Air Flotation clarifiers in Malaysia, and dual media filters.
- Project Engineer for the investigation and completion of report on the provision of sewage treatment system for the proposed IIU Campus with a population of 23,000. Studied various options of treatment systems available, making cost comparison and final cost estimate on recommended system.
- Project Manager for the design of water transmission mains to Felda Schemes. Diameters of mains range from 300 mm to 600 mm.

Duration **March 1990 - August 1990**
Employer **Kumarasivam Tan & Ariffin Sdn Bhd**
Position **Project Engineer**

Projects Involved:

- Project Engineer for the Tawau Water Supply Scheme Stage 2, valued at RM110 million. It involved a concrete faced rockfill dam, 40Mld water treatment plant, trunk main and storage reservoirs.

Duration **May 1988 - February 1990**
Employer **Syed Muhammad Hooi & Binnie Sdn Bhd**
Position **Civil Engineer**

Projects Involved:

- Design Engineer for Sungai Selangor Scheme Phase 1, the largest water treatment plant in Malaysia. Designed the treatment process units and administration building.

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- Design Engineer for the extension of Bertam water treatment plant valued at RM45 million, increasing the output by 12 mgd to 32 mgd. Also designed the new access road to the treatment plant.

Duration **August 1982 - April 1988**

Employer **Perunding Juru Awam Sdn Bhd**

Position **Project Engineer**

Projects Involved:

Resident Engineer for Greater Kuantan Water Supply, supervising the following:

- Construction of water treatment works at Semambu.
- Commissioning of treatment plant including inclined parallel plated clarifiers.
- Commissioning of raw water pumping plant and associated instrumentation.
- Laying of 500mm diameter HDPE submarine treated water pipe about 500m long across Sg. Kuantan river mouth.
- Project Engineer for the design of 1.0 mgd groundwater scheme for Wangsa Maju, KL. It involved 5 boreholes and a treatment work valued at RM 1.2 million.
- Project Engineer for the design of 32 mgd Greater Kuantan Water Supply Project, valued at RM86 million. It involved raw water intake & pump station, 10 km of 1525mm diameter steel raw water main, treatment plant at Semambu with inclined parallel plated clarifiers and 80 km of treated water mains ranging from 250 mm to 1375 mm in diameter.

Duration **October 1980 - July 1982**

Employer **Bumi-Watson (M) Sdn**

Position **Assistant Engineer**

Projects Involved:

- Assisted in the Johor Bahru Sewerage and Drainage Master Plan & Feasibilities Study. Involved in collection and analysis of existing sanitation levels and development of appropriate sewerage networks and drainage systems.
- Assisted in the design of various water supply schemes.

PUBLICATIONS

- “Dissolved Air Flotation (DAF) Water Treatment Process - An Introduction”, MWA Seminar, August, 1991.
- “DAF - Experience in Sg. Lebam Treatment Plant”, October 1994.
- “Adaptation of DAF Technology for the Design of Bertam Water Treatment Plant”, ACEM Seminar, 2002.
- “An Overview of Malaysian Water Industry”, International Water Industry Conference, KWWA, October 2011.
- “Current Issues in Water Supply Management in Malaysia”, Global Water Network Meeting, Water Korea 2014.

Ir. HO KIEN SIONG

KEY EXPERIENCE

- Design, Coordination, Implementation and Commissioning of Water Works Related System.
- Leading water treatment project team
- Works involved designing of all treatment systems in water and waste water treatment plants, such as hydraulic system, treatment system, chemical system, aeration system, sludge disposal system, mechanical system, good handling system and other associated systems.



POSITION

DIRECTOR

QUALIFICATION

- Master In Water Engineering (UPM), 2015
- Bachelor of Engineering (Mechanical) Engineering Council (UK), 1999
- Diploma In Materials Engineering (TAR College)
- Engineering Council Examinations PT2 (UK) In Mechanical Engineering
M.Eng., ECE Part II (UK) P.Eng.

PROFESSIONAL MEMBERSHIP

- Registered Professional Engineer, Malaysia (P.Eng.)
- SPAN Qualified Person (Mechanical)
- Member of Institution of Engineers, Malaysia (MIEM)
- Member ASEAN Engineers Register (AER)
- Member, Malaysia Water Association (MMWA)

EXPERIENCE

Duration *May 2016 - Present*

Employer *G&P Dams & Water Services Sdn Bhd*

Position *Director*

Project Involved:

- Involved Miri Water Supply Source Development Phase 2
- NGC Raw Water Source Works (Sg Langat and Sg Labu Intakes, Pump Stations and Piping System for Raw Water and Effluent Discharge).

Duration **May 2016 - Present**

Employer **Qanat Consulting Ltd**

Position **Principal**

Projects Involved:

- Design 10 Mld Pitas Water Treatment Plant, Sabah (2017)
- Engineering Design for Sungai Dua Water Treatment Plant Filter Refurbishment Works (2017)
- Design Rain Water Harvesting System for Elite Pavilion - Kuala Lumpur (2017)
- Design Rain Water Harvesting System for Mont Kiara Top Hill - Kuala Lumpur (2017)
- Raw Water Pumping System Study and Design for Miri Raw Water Transfer (2017)
- Design Rain Water Harvesting System for Velodrome - Cyber Jaya (2017)
- Design Rain Water Harvesting System for D'sara Sentral - Kuala Lumpur (2017)
- Design Rain Water Harvesting System for Bukit Jalil - Kuala Lumpur (2017)
- Design Rain Water Harvesting System for Tamarind - Cyber Jaya (2017)
- Design Transformer Testing Facilities for Malaysia Transformer Manufacturing - Selangor (2016)
- Design 120 Mld Water Treatment Plant for Bukit Berapit, Kuala Terengganu Utara - Terengganu (2016)
- Engineering Design for Refurbishment Works Losong 1, 2 and 3 Water Treatment Plants (2016)
- Engineering Design for Refurbishment Works Kepng 1 and 2 Water Treatment Plants (2016)
- Design Pumping System for Flood Mitigation Project - Shah Alam Section 13 (2016)

Duration **April 2012 - May 2016**

Employer **EDP Consulting Group Sdn. Bhd.**

Position **Water Treatment Specialist**

Projects Involved:

Leading water treatment project design team.

Works involved designing of all treatment systems in water and waste water treatment plants, such as hydraulic system, treatment system, chemical system, aeration system, sludge disposal system, mechanical system, good handling system and other associated systems.

The following are the major project involved:

- Design Rain Water harvesting System for Ikea (Malaysia) (2015)
 - Conceptual design development
 - Detailed design, fabrication work supervision and site coordination
 - Testing and commissioning
- Design Water Treatment Plant for Tembat Dam (Hulu Terengganu) (2015)
 - Carried out site visit and inspection.

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- Conceptual design development
 - Detailed design, fabrication work supervision and site coordination
 - Testing and commissioning
 - Design Water Reticulation System for Pua Dam (Hulu Terengganu) (2015)
 - Carried out site visit and inspection.
 - Conceptual design development
 - Detailed design, fabrication work supervision and site coordination
 - Testing and commissioning
 - Design Kuala Pilah Treated Water Pumping Station (2015)
 - Carried out site visit and inspection.
 - Detailed design development
 - Design Floating Oil Separator System for Petronas Refinery Plant (Terengganu) (2015)
 - Conceptual design development
 - Detailed design, fabrication work supervision and site coordination
 - Testing and commissioning
 - Design Potable Water Treatment, Pond Water Treatment and Wastewater Treatment Plant for Prologi Zero Carbon Plant in Banglen (Thailand) (2015)
 - Carried out site visit and inspection.
 - Conceptual design development
 - Detailed design, fabrication work supervision and site coordination
 - Testing and commissioning
 - Design Automatic Raking Screen for River (Malaysia) (2014)
 - Conceptual design development
 - Detailed design for the screen
 - Design 220,000 PE Sewerage Network Pumping Station (Melaka) (2014)
 - Conceptual design development
 - Detailed design for the NPS
 - Carried out HAZOP
 - Design Pre-packed Screen for Underground Water Extraction (Merbau Chondong, Kelantan) (2014)
 - Conceptual design development
 - Detailed design for the screen
 - Develop test bay for collapse test
 - Carryout sand analysis
 - Audit for Water Treatment Plants; Yong Peng2, Yong Peng 3, Parit Raja, Simpang Renggam, Kampung Tengah, Sembrong Timur and Sembrong Barat (Johor, Malaysia) (2014)
 - Carried out plant audit
 - Develop audit report
 - Design Raw Water Intake for Nake WTP (Laos) (2013)

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- Carried out site visit and inspection.
 - Conceptual design development
 - Detailed design for the Intake
 - Design Water Treatment System for Felda Pemanis and Bukit Serampang WTP (PAAB) (2013)
 - Carried out site visit and inspection.
 - Conceptual design development
 - Detailed design for the treatment plant
 - Design Water Treatment System for of Al Zohour Water Project, Iraq. (2012)
 - Carried out site visit and inspection.
 - Conceptual design development
 - Liason with Baghdad local authorities
 - Detailed design for the treatment plant
 - Project monitoring
 - Surge Analysis (2012)
 - Miri water transfer project
 - Labu raw water pumping system
 - Langat raw water pumping system
 - Sibul treated water pumping system
 - Pemanis pumping system
 - Bukit Serampang pumping system
 - Jugan booster pumping system

Duration ***August 2000 - April 2012***

Employer ***Angkasa Consulting Services Sdn Bhd***

Position ***Principal Engineer (Mechanical)***

Projects Involved:

- Head of Mechanical Department on all mechanical related subjects.
- Project involved consists of all mechanical systems, such as preliminary planning, proposal preparation, cost estimation, mechanical plant/system design, tender document preparation, tender evaluation, projects management, auditing assets and project testing and commissioning.
 - Plant audit
 - Irrigation Pumping System
 - River gate and water intake
 - Water pumping system
 - Surge protection system
 - Compressed air system
 - Chemical handling and dosing system
 - Water filtration and back washing system

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- Canal trash raking system
 - Materials handling system
 - Firefighting system
 - Building services
 - Also involved in attending meeting and site inspection to ensure the works compliance to the specifications and budgets, review of shop drawings and equipment technical data.
 - Attending tender briefing, prepare local and oversea tender proposals, business development for oversea projects.
 - Site/ plant audit, plant troubleshooting, plant performance assessment.

The following are the major project involved:

- Feasibility Study of Sewerage System in Phnom Penh City, Phnom Penh, Cambodia under Public Private Partnership (PPP) arrangement (Puncak Niaga)(2011)
 - Carried out site visit and inspection.
 - Conceptual design development
 - Liaison with Phnom Penh local authorities
- Dam safety Inspection for Sg. Langat Dam, Klang Gates Dam and Tasik Subang Dam, Selangor (Puncak Niaga, 2010)
 - Carried out site visit and inspection, safety report preparation.
- Proposed Bertam DAF Phase 2, Water Treatment Plant, Durian Tunggal, Package 1,2,3 and 4. Melaka (SAMB, 2010)
 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
- Hogennakkal Water Supply and Fluorosis and Mitigation Project Package IV, India under Public Private Partnership (PPP) arrangement (Puncak Niaga, 2010)
 - Attend tender site visit, prepare proposal and conceptual design.
- Collection & Conveyance River Sourced Water to MSEZ, Mangalore, India under Public Private Partnership (PPP) arrangement (Puncak Niaga, 2010)
 - Carried out surge analysis
- Aurangabad Water Supply Project, Build, Refurnish, Operate and Maintain the Water Supply System of Aurangabad City. Maharashtra State, India under Public Private Partnership (PPP) arrangement (Puncak Niaga, 2010)
 - Proposal preparation
 - Preliminary design and study
- Durian Tunggal Bunded Storage Extension Scheme, Melaka (SAMB) (2010)
 - Head mechanical engineer team in project supervision and technical review
- Limbang Hydroelectric Project, Sarawak (Loh & Loh,2009)
 - Proposal preparation

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- Preliminary design and study
 - Design and Build of Water Supply System to Rembia Industrial Estate at Alor Gajah, Melaka (SAMB, 2009)
 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Hogenakkal Water Supply and Fluorosis Mitigation Project - Package 1, India under Public Private Partnership (PPP) arrangement (Puncak Niaga, 2009)
 - Proposal preparation
 - Preliminary design and study
 - Design and Built Water Treatment Plant and Associated Works at Sg. Labu, Selangor (Loh and Loh) (2009)
 - Proposal preparation
 - Preliminary design and study
 - Savannakhet Water Treatment Plant Upgrading Works, Laos under Public Private Partnership (PPP) arrangement (DKLS) (2009)
 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Rehabilitation and Upgrading of Emery Oleo Chemical Waste Water Treatment Plant, Banting (Veolia Water) (2009)
 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Kinta Mini hydro Project, Perak (LAP) (2009)
 - Head mechanical engineer team in the design of all mechanical drawings, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Rehab works at Sg. Langat dam, Klang gates dam & Tasik Subang dam, Selangor under Public Private Partnership (PPP) arrangement (Puncak Niaga) (2008)
 - Carried out dam inspection and proposed remedial action
 - Cost estimation for projects
 - Small hydroelectric power plant (5 MW) at Sg. Mokodou, district of Renau, Sabah under Public Private Partnership (PPP) arrangement (Hyosung Ebara Engineering Corporation) (2008)
 - Carried out site visit and inspection.
 - Conceptual design development

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- Prepare tender document
 - Liason with local authorities for approval
 - Rajdhani Hydropower Project , AJK, Pakistan, Package 1: Civil , Mechanical and Electrical EPC contract, India under Public Private Partnership (PPP) arrangement (Temokin) (2008)
 - Proposal preparation
 - Preliminary design and study
 - Projek Bina / Pasang - Loji / kolam takungan dan paip utama Hilir Perak, Perak (LAP) (2008)

Contract 9A - Supply, installation and commissioning of treated water pump

Contract 9B - Installation and completion of new overhead traveling crane at existing treated water pumping station and associated works

 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Proposed Lancang treatment works (Phase 2), Merlimau Melaka, (SAMB) (2008)

Package 2A - Contruction and completion of hydrated Lime Dosing plant at Lancang intake and a potassium permangante dosing plant at Lancang water treatment plant 2008

 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Consulting Services for the Review and Authentication of the 3rd Asset Condition Reports from MWCI and MWSI, Manila, Philippine (CEST) (2008)
 - *Plant Audit*
 - ISO 9001:2000 Surveillance Visit on for Perbadanan Bekalan Air P.Pinang (SDG) (2008)
 - Plant Audit
 - Projek Pembesaran Empangan Mengkuang, Pulau Pinang, (KTHAH)
 - Design and tender preparation of mechanical equipment for the mengkuang dam upgrading works.
 - Tender document preparation
 - *Cadangan Membina dan Menaiktaraf Longkang Besar Untuk Mengatasi Banjir di Taman Bayu Perdana, Klang (MPK) (2007)*
 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Nam Sane Hydropower Project under Public Private Partnership (PPP) arrangement (LOHAS) (2007)

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- Proposal preparation
 - Preliminary design and study for hydro plant components
 - Phase 1 Syabas Capex works programme for upgrading of twenty six (26) water treatment plants in Wilayah Persekutuan Kuala Lumpur and Selangor Darul Ehsan under Public Private Partnership (PPP) arrangement (SYABAS) (2007)
 - Organising site inspection and identify upgrading work components
 - Prepare upgrading work schedule and tender document
 - Cost estimation for Upgrading works
 - Works supervision and commissioning
 - Improvement of Trunk Infrastructure (Water Supply and Drainage System) outside Tan Hoa - Lo Gam Basin", Ho Chi Ming City, Vietnam (Sectoral Project No. 5 and No. 6) (World Bank) (2007)
 - Proposal preparation
 - Preliminary design and study
 - Site inspection
 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Bakun hydroelectric project (Package CW2), Sarawak (China Hydro) (2007)
 - Support mechanical plant design
 - Identification and assessment of upgrading works for proposed Syabas capital expenditure (CAPEX) Phase 2, Selangor (SYABAS) (2007)
 - Organising site inspection and identify upgrading work components
 - Prepare upgrading work schedule and tender document
 - Cost estimation for Upgrading works
 - Works supervision and commissioning
 - Binh An Sludge Treatment Plant, Vietnam under Public Private Partnership (PPP) arrangement (Binh An) (2006)
 - Project Management of Binh An Sludge Treatment Plan, Vietnam
 - Supply development of Dalat city under Public Private Partnership (PPP) arrangement, Lam Dong Provinces, Vietnam (2006)
 - Proposal preparation
 - Preliminary design and study
 - Ho Chi Minh City non-revenue water management sub-project services: consulting services for the detailed design and supervision, Vietnam (2006)
 - Proposal preparation
 - Preliminary design and study
 - Haiphong Water Supply Project, Vietnam (2006)
 - Proposal preparation

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- Preliminary design and study
 - Kenh Dong Water Supply Projects, Vietnam (2006)
 - Proposal preparation
 - Preliminary design and study
 - Tawau TKPM Irrigation System, Sabah (JPS) (2006)
 - Head mechanical engineer team in the design of all mechanical and pumping work, reviewing shop drawings and technical schedules, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Construction of Check Dam, Access Road and Associated Works for Kinta Dam, Perak (LAP) (2006)
 - Designing hydraulic gate system
 - Technical inspection and works supervision
 - Chini Water Treatment Plant Upgrading Works, Chini, Pahang (Felda) (2006)
 - Head mechanical engineer team in the design of all mechanical and pumping work.
 - Tender document preparation
 - Construction of Mempaga Water Treatment Plant, Mempaga, Pahang (Felda) (2006)
 - Head mechanical engineer team in the design of all mechanical and pumping work.
 - Tender document preparation
 - Proposed Mini Hydro for Sg. Perting, Pahang under Public Private Partnership (PPP) arrangement (AMDB) (2004)
 - Head mechanical engineer team in the design of all mechanical work, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Taman Tasik UTP, Perak, (University Technology Petronas) (2004)
 - Head mechanical engineer team in the design of all mechanical work, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Semenyih ABASS Clear Water Tank Chlorination System Upgrading Works, Selangor (ABASS) (2004)
 - Head mechanical engineer team in the design of all mechanical work, project coordination, monitoring and commissioning.
 - Tender document preparation
 - Transfer of Raw Water From Batu Pond and Pumped Storage at Batu Dam, Selangor under Public Private Partnership (PPP) arrangement (Puncak Niaga)(2003)
 - Head mechanical engineer team in the design of all mechanical and pumping work
 - Tender document preparation
 - 25 Mld Bernam River Headwork Water Treatment Plant, Selangor (Puncak Niaga) (2003)

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- Design and project monitoring of all mechanical and pumping equipment
 - 900 Mld Mumbai Water Supply Project, India under Public Private Partnership (PPP) arrangement (Puncak Niaga) (2003)
 - Head mechanical engineer team in the design of 900 Mld water treatment plant
 - Prepare proposal
 - Durian Tunggal Banded Storage Extension Scheme, Melaka (SAMB) (2003)
 - Head mechanical engineer team in the design of all mechanical and pumping work
 - Petronas Carigali Block 1 Project, Seawater Intake, Turkmenistan (Technip) (2002)
 - Designer of Sea Water Intake for petrol plant
 - 227 Mld Sungai Dua Water Supply Scheme, Pulau Pinang (PBA) (2001)
 - Planning and design of mechanical system
 - 17 Mld Baling Water Treatment Plant, Kedah (JKR) (2001)
 - Design of the plant mechanical system i.e. Pumping systems, chemical handling and dosing systems, filtration and backwashing system, plant control and monitoring systems.
 - Putrajaya Irrigation Project (Putrajaya) (2001)
 - Design of mechanical system, pumping system, control system and monitoring system.
 - 100 Mld Hilir Perak Water Treatment Plant, Parak (LAP) (2001)
 - Design of the plant mechanical system i.e. Pumping systems, chemical handling and dosing systems, filtration and backwashing system, dewatering system, sludge pumping system, plant control and monitoring systems.
 - 27 Mld Kuala Ketil Water Treatment Plant, Kedah (JKR) (2001)
 - Design of the plant mechanical system i.e. Pumping systems, chemical handling and dosing systems, filtration and backwashing system, plant control and monitoring systems
 - Binh An Water Treatment Audit, Vietnam (Binh An) (2000)
 - Lead the audit team in the quarterly audit of 100 Mld Binh An Treatment Plant
 - Putrajaya Waterfront Project (Putrajaya) (2000)
 - Design of irrigation system and water features.
 - 100 Mld DAF Bintulu Water Treatment Plant, Sarawak (JKR) (2000)
 - Reviewing shop drawings and technical schedules, Project coordination, monitoring and Commissioning.
 - Kemaman Water Supply Scheme, Terengganu (SATU) (2000)
 - Auditing, monitoring and evaluating the plant defect works.
 - 1050 Mld Capacity Sungai Selangor Water Supply Scheme, Selangor (SPLASH) (2000)
 - Independent Reviewer for the whole US\$700 Million Water Supply Scheme

Duration **August 1999 - August 2000**

Employer **Majutek Perunding**

Position **Mechanical Engineer**

Projects Involved:

Major Project undertaking with MAJUTEK PERUNDING

- Involved in the preliminary cost estimate, planning, jobs assignment, monitoring and coordinating design team for the Laboratories Mechanical Systems (cold water, sanitary, firefighting, HVAC, compressed air, vacuum, chemical exhaust, chemical treatment plant, LPG and lifts). Also involved in document preparation i.e., tender document, design report, calculation etc.

Project Description:

- University Technology Petronas
- which consist of:
- Mechanical Engineering Laboratory
- Electrical Engineering Laboratory
- IT Engineering Laboratory
- Chemical Engineering Laboratory
- Common Since Laboratory
- Lecture Theatre
- Great Hall & Admin Office

Scope pf Work:

Design HVAC, cold water, sanitary, firefighting, lift, compressed air, LPG, air-cond, chemical exhaust and treatment.

Major Projects undertaken:

- Involved in the preliminary cost estimates, preparation of project brief/ proposal detail designing, planning and tender documentation, tender evaluation for the complete building Mechanical systems (cold & hot water piping system, soil & waste piping system, firefighting system, air-conditioning and ventilation system, compressed air system, lift) as well as liaising with relevant local authorities for project approval. Projects involved from residential, commercial, infrastructure, industrial etc.
- Held discussions and presentations with the clients, project concessionaire, major anchor tenants etc. to ensure compliance to their requirements and budget.
- Also involved in attending site meetings, site evaluation/co-ordination and site inspection to ensure contractor's compliance to the specifications and latest construction drawings.

Duration **June 1995 - August 1999**

Employer **ENMAC Sekutu**

Position **Mechanical Engineer**

Projects Involved:

Major Projects undertaken:

- Involved in the preliminary cost estimates, preparation of project brief/ proposal detail designing, planning and tender documentation, tender evaluation for the complete building Mechanical systems (cold & hot water piping system, soil & waste piping system, firefighting system, air-conditioning and ventilation system, compressed air system, lift) as well as liaising with relevant local authorities for project approval. Projects involved from residential, commercial, infrastructure, industrial etc.
- Held discussions and presentations with the clients, project concessionaire, major anchor tenants etc. to ensure compliance to their requirements and budget.
- Also involved in attending site meetings, site evaluation/co-ordination and site inspection to ensure contractor's compliance to the specifications and latest construction drawings.

Commercial:

Acmar Jaya Sdn Bhd Bandar Baru Klang Club House

- Design cold water, sanitary and firefighting systems.

PNSB Acmar Sdn Bhd

Secondary and primary school and kindergarten (Bandar Baru Klang)

- Design cold water, sanitary and firefighting systems.

PNSB Acmar Sdn Bhd, Bandar Baru Klang Medical Centre

- Design cold water, sanitary and firefighting systems.

Acmar Jaya Sdn Bhd

Menara Acmar, 7 storey office unit (Klang)

- Design cold water, sanitary and firefighting systems.

Acmar Jaya Sdn Bhd, 4 storey car service centre (Shah Alam)

- Design cold water, sanitary and firefighting systems.

Country Height Seremban business park (Mukim Ampangan)

- Design cold water, sanitary and firefighting systems.

Metro Kajang Sdn Bhd, 53 units shop office (Kajang)

- Design cold water, sanitary and firefighting systems.

Nando's Chickenland Restaurant (Petaling Street)

- Design HVAC, cold water, sanitary and firefighting systems.

Oil and Gas:

Shell Malaysia

Petroleum product piping upgrading (Bagan Luar)

- Design petroleum piping routes and supports

Shell Malaysia

Petroleum product piping upgrading(Bintulu)

- Design petroleum piping routes and supports

Industrial:

Muhibbah Engineering

Thai Airway 2nd maintenance centre docking system (Utapao - Thailand)

- Design HVAC , cold water , compressed air , vacuum and control system

Muhibbah Engineering

Passenger / good hoist - MB 1200 (Pusing - Ipoh)

- Design mechanical and electrical interlocking system and gear system

Residential:

PNSB Acmar Sdn Bhd

14 storey 226 units condominium phase one (Bandar Baru Klang)

- Design cold water , sanitary and firefighting systems

PNSB Acmar Sdn Bhd

10 storey 663 units low cost flat (Bandar Baru Klang)

- Design cold water , sanitary and firefighting systems

PNSB Acmar Sdn Bhd

5 units luxury apartment (Jalan Ampang)

- Design cold water , sanitary and firefighting systems

Metro Kajang Sdn Bhd

10 Block TARC hostel and 2 block Amenity Hall (Ulu Klang)

- Design cold water , sanitary and firefighting systems

Metro Kajang Sdn Bhd

760 units medium cost apartment (Kajang)

- Design cold water , sanitary and firefighting systems

Metro Kajang Sdn Bhd

12 storey medium cost apartment (Kajang)

- Design cold water , sanitary and firefighting systems

KLS Corporation

1320 units high cost apartment (Kajang)

- Design cold water , sanitary and firefighting systems

Metro Kajang Sdn Bhd

Low and medium cost apartment (Kajang)

-
- Design cold water , sanitary and firefighting systems

Metro Kajang Sdn Bhd

680 units low and medium cost apartment

- Design cold water , sanitary and firefighting systems

Site Experiences:

KLIA catering centre

Thai Airway second maintenance centre (Thailand)

- M & E coordinator

Ir. MOHD FAIRUZ BIN ABDUL HALIM

KEY EXPERIENCE

- Establishing high level design concept and approach for the acceptance of the client and the design team to follow through, and intermittently chairing design meetings to ensure design approach is followed and adhere to. Solve major design issues should it arise.
- Managing client's and end user's expectation in terms of technical and cost term.
- Liaising with authorities to ensure design and installation are to acceptable requirements and optimization of processes as well as complies with the international buildings regulations and standard best practices.



POSITION

DIRECTOR

QUALIFICATION

- Master Engineering in Electrical (High Voltage), Universiti Teknologi Malaysia, 2005
- Bachelor of Engineering (Hons) (Electrical), Universiti Teknologi Malaysia, 2002

PROFESSIONAL MEMBERSHIP

- Registered Professional Engineer, Malaysia (P.Eng.)
- Registered Electrical Energy Manager (REEM.)
- SPAN Qualified Person (QP-Water & Sewerage)
- ASEAN Chartered Professional Engineer-Electrical (ACPE)
- Asia-Pacific Economic Cooperation Engineer-Electrical (APEC)
- EMF International Professional Engineer-Electrical (IntPE)
- Member of Institution of Engineers, Malaysia (MIEM)
- Member of Institution of Engineering and Technology, U.K. (MIET)

EXPERIENCE

Duration *December 2016 - Present*

Employer *G&P Dams & Water Services Sdn Bhd*

Position *Director*

Project Involved:

- Establishing high level design concept and approach for the acceptance of the client and the design team to follow through, and intermittently chairing design meetings to ensure design approach is followed and adhere to. Solve major design issues should it arise.

- Managing client's and end user's expectation in terms of technical and cost term.
- Liaising with authorities to ensure design and installation are to acceptable requirements and optimization of processes as well as complies with the international buildings regulations and standard best practices.

Duration **April 2015 - December 2016**

Employer **Fussilat Engineering**

Position **Principal**

Projects Involved:

- Upgrading, testing and Commissioning STP2 Putrajaya with ultimate capacity 600,000PE.
- Upgrading o TRX Wastewater Treatment Plant (WWTP) is cater for 60,000PE from 70-acre multi-use site development project in Kuala Lumpur. Final treated effluent is design to comply Standard A and conveyed to each plot area within the development area @ 100% recycled back to Mainly for District Cooling System water;
 - Plant irrigation within the development,
 - Non-contact use such as toilet flushing,
 - WWTP plant usage such as equipment rinsing, pipeline flushing etc
- 7 nos. of Petrol Station for Shell/Petronas/Caltex/BHP.

Duration **January 2015 - August 2016**

Employer **Perwira Al-Shura Consulting Engineers Sdn Bhd**

Position **Associate Director**

Projects Involved:

- Overseeing and managing the overall executions of M&E projects encompassing design and constructions, technical deployment, material management as well as testing and commissioning.
- Providing the system design and project management expertise in various high value M&E system projects.
- Liaising with local authorities in design submissions and approvals as well as constantly keep abreast on the latest authority requirements.
 - Main and Infrastructure
 - GKL, ROL 1 Quick Win Project.
Rationalization Work 17 Sewage Treatment Plant in Setapak, Keramat & Wangsa Melawati (70,000 PE; Project worth RM85 Million)
 - GKL, ROL 6 Package D44.
Rationalization, upgrading, testing & commissioning and decommissioning multipoint STP's in Bonus sewerage catchment area, Kuala Lumpur and Selangor (1,100,000 PE; Project worth RM 400Million), etc
 - M&E System Designer and Project Consultant for Medical and Healthcare Facilities. Client KPJ Specialist Hospital.

- Proposed Extension Block for Ampang Puteri Specialist Hospital. (Project worth MYR 130Million)
 - Proposed Extension Block for KPJ Seremban Specialist Hospital. (Project worth MYR 40Million)
 - Cadangan Membina Sebuah Hospital Pakar Swasta Di Atas Sebahagian Lot 105703 (HSM 65652) Tanjung Lumpur, Mukim Kuala Kuantan, Pahang Darul Makmur. (Project worth MYR 60Million)
- iii. Submitted the Feed in Tariff (FIT) tender bidding preparation up to 50 MW Solar PV (Large Scale Solar) and Biomass Plants for the Energy Commission.

Duration *January 2012 - December 2014*

Employer *SPAN - Certifying Agency Sewerage*

Position *Federal Territory Certification Manager (Head)*

Projects Involved:

- The main key role of Certifying Agency Sewerage (CA) have to manage, plan, design, control and approved all new sewerage development activities within the coverage area of Federal Territory (DBKL, WPPj and WPL) in conformance to the established procedures and guidelines so as to ensure T&C and takeover of quality asset that comply with the environmental discharge standard. Adopted the Energy Efficiency and Renewable Energy design intend for RoL-GKL Regional Plants to a selected package.

Projects a key/prominent role in:-

- i. Among the major components of the GKL/KV (River of Life) projects implemented are as follows:
- ROL 1 - Work Rationalization 17 Sewage Treatment Plant in Setapak, Keramat & Wangsa Melawati (70,000 PE)
 - ROL 4 - Regional Sewage Treatment Plant and the Sewer Network at Batu, Jinjang Kepong, Kuala Lumpur (1,000,000 PE)
 - ROL 6 - Regional Sewage Treatment Plant and the Sewer Network at Bunus, Kuala Lumpur (1,100,000 PE)
 - ROL 8 - Research on Sewage Treatment Plant Public and Private Abandoned in Kuala Lumpur, Selayang dan Ampang.
 - ROL 9 - Linking Project Premises at Seputeh, Ampang Hilir and Titiwangsa, KL.
- ii. Here is a sewerage projects under GKL/KV (Non River):
- B30 Package – Upgrading Regional STP TTDI (200,000 PE).
 - NR 1 - Work Rationalization 27 Sewage Treatment Plants in Old Klang Road.
 - NR5 - Construction of Sewer Network in the Area Jalan Klang Lama, Petaling Jaya dan Seputeh, Kuala Lumpur.

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- NR9 - Construction of Sewer Network and Rationalization 33 Sewage Treatment Plant in Puchong and Taman Mawar Regional Sewage Treatment Plant.
- iii. The Tenth Malaysia Plan
- Proposed upgrading Pantai 2 Regional Sewage Treatment Plant with capacity up to 1,400,000 PE.
- iv. MRT Project
- Relocation, diversion and conversion of STP's and sewer network off-site the ROW Line 1, MRT.
- v. Private Investment Development Fund (PIDF) project as follows:
- Proposed rationalization, conversion and demolition of 13 multipoint STP's in Taman Connaught divert to Bandar Tun Razak Regional STP with ultimate design capacity 150,000 PE (Land Swap).
 - Proposed redevelopment of Hartamas Regional STP and upgraded to small footprint via MBR technology with ultimate capacity 160,000 PE (Land Swap).
 - Proposed and coordinate the Joint venture consortium of 21 developers to design and built Segambut STP with capacity up to 100, 000 PE.

Duration *January 2008 - December 2011*

Employer *Japan Drilling Co Ltd.*

Position *Chief Electrical Engineer (Offshore Base - Submersible Drilling Rig)*

Projects Involved:

- Responsible to providing a quality, on-time, incident-free services to clients and to conducting operations in a manner that ensures environmental protection and the health and safety of our personnel and stakeholder.
- Responsible maximize availability and reliability of electrical equipment and power supply for continue plant operation so as to achieve maximum drilling rig installation and reduce maintenance cost.
- Directed and implemented schedule and unscheduled maintenance programs and JDC HSQE-MS, ABS standard, ISM Code, IEEE-45 and others government agencies or classification societies etc.

Duration **January 2004 - December 2007**

Employer **Capital Work & Refurbishment Dept. Indah Water Konsortium Sdn Bhd**

Position **Senior Engineer**

Projects Involved:

- Responsible for performed study and designing for upgrading and major refurbishment work such as network pumping station and sewerage treatment plant.
- Responsible for designed electrical shop drawings, BQ's and produce material take off.
- Responsible to ensure the main contractor to executes the project in full compliance with the terms and conditions of the Project Contract.
- Responsible for supervised construction for wastewater treatment plant issues with regards to fabrication, installation, testing & commissioning, HSE audit and defect liability period.

Duration **July 2001 - December 2003**

Employer **Matsushita Motor & Compressor R&D (M) S.B**

Position **Design Engineer**

Projects Involved:

- Responsible for supervised construction for wastewater treatment plant issues with regards to fabrication, installation, testing & commissioning, HSE audit and defect liability period.
- Responsible for motor design calculation, technical control drawing, meeting minutes and Bill of Material (B.O.M).
- Responsible for model planning and design application, new sample or pilot commercial motors model meeting c/w pre-production setup and outgoing permission review product cost.
- Conducted research study on the laboratory techniques for new material, parts evaluation, electric motor data analysis for a new model invention.
- Performed testing for life test, heat shock test, vibration test, insulation resistance test, dielectric strength, high speed S-T test, PQ & OD test, noise test, suction test, X-Ray Analyzer test etc.

PUBLICATIONS (Dissertation/Journals)

- Abdul Hamid, Mohd. Fairuz (2007) The effect multiple lightning impulse on the electrical breakdown voltage insulation resistance and isolation capacitance characteristics an opto-isolator as a low voltage surge protective device. Master's thesis, Universiti Teknologi Malaysia, Faculty of Electrical Engineering.
- Mohd Fairuz Abdul Hamid and Nor Azuana Ramli. (2015). An Analysis On Energy Production Costs For Wastewater Treatment Plant In Malaysia. Proceeding of IPECS 2015 and Jurnal Teknologi (Sciences & Engineering) 72:1 (2015) 1–6. eISSN 2180–3722
- M.F. Abdul Hamid and N. A. Ramli. (2016). Improvement of Energy Efficiency in Waste Water Treatment Plant by Enhancing Performance of Anaerobic Digestion. Proceeding of ICETE 2015 and Journal of biological sciences, 16: 284-289. ISSN 1727-3048. DOI: 10.3923/jbs.2016.284.289
- Mohd Fairuz Abdul Hamid and Nor Azuana Ramli. (2016). An Analysis of Energy Efficiency and Energy Consumption Costs: A Case Study for Regional Wastewater Treatment Plant in Malaysia. Journal of Water Reuse and Desalination. IWA Publishing 2016. jwrdd2016196. DOI: 10.2166/wrd.2016.196
- Nor Azuana Ramli and Mohd Fairuz Abdul Hamid. (2016). Energy Analysis of a Wastewater Treatment Plant by using Artificial Neural Network. 2016 International Conference on Applied Computing, Mathematical Sciences and Engineering (ACME2016).
- Mohd Fairuz Abdul Hamid, Harison Gimang Anak Richard and Nor Azuana Ramli. (2016). An Analysis on Energy Consumption of Two Different Commercial Buildings in Malaysia. 2016 IEEE 6th International Conference on Power and Energy (IEEE-PECON 2016).
- Mohd Azlan Abu, Harlisya Harun, Mohammad Yazdi Harmin, Noor Izzri Abdul Wahab, Mohd Khairil Rahmat, Mohd Fairuz Abd Hamid & Aizat Faiz Ramli. Reconfigurable Enhanced Path Metric Updater Unit for Space Time Trellis Code Viterbi Decoder. 2016 Advancement Research in Circuits and Systems International Conference (ARECAS).
- Mohd Fairuz Abdul Hamid, Siti Nor Baizura Mat Napih and Nor Azuana Ramli (2017). Factors Affecting Mini Hydro Power Production Efficiency: A Case Study in Malaysia. 3rd International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET2017).
- Mohd Fairuz Abdul Hamid, Muhd Syahril Mokhtar and Nor Azuana Ramli (2017). Development and Optimisation of Energy Efficiency for Regional Network Pump Station Via Glass Reinforced Plastics Material. A Design & Built Case Study. 3rd International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET2017).
- Fadi M. Albatsh, Shameem Ahmad, Saad Mekhilef, Ibrahim Alhamrouni and Mohd Fairuz Abdul Hamid (2017). Power Flow Control Using Fuzzy Based UPFC under Different Operating Conditions. Journal Electrical System

Ir. LEONG CHOON KEE

KEY EXPERIENCE

Ir. Leong Choon Kee graduated from University of Technology Malaysia with B. Eng. (Civil). He has over 25 years of experience in planning, design, implementation and contract administration of large scale water supply schemes throughout Malaysia. His areas of specialties include:

- Planning, feasibility study and detailed design of water supply scheme
- Distribution network system study
- Intake and water treatment plant
- Distribution system, ie. pipelines, reservoir and booster stations
- Project management and contract administration



POSITION

DIRECTOR

QUALIFICATION

Bachelor of Civil Engineering, University of Technology Malaysia, 1991

PROFESSIONAL MEMBERSHIP

- Professional Engineer, Board of Engineers Malaysia (BEM)
- Member, Institution of Engineers, Malaysia (IEM)
- Member, Malaysian Water Association (MWA)
- Qualified Person, Suruhanjaya Perkhidmatan Air Negara (SPAN)

EXPERIENCE

Duration *January 2017 - Present*

Employer *G&P Dams & Water Services Sdn Bhd*

Position *Director*

Projects Involved:

- Inspection of Balancing Reservoir at Sg Semenyih WTP.
- Dam Safety Review of Semenyih Dam 2018.
- Engineering Consultancy Services for Water Supply Demand and Distribution Study for Jelebu, Jempol, Kuala Pilah & Tampin, Negeri Sembilan.
- Detailed Design, Tender Preparation and Construction Supervision for NGC Raw Water Source Works (Relocation of Sg Langat Intake, Pump Station, and Associated Raw Water Pipe).

- Rancangan Bekalan Air Daerah Larut Matang, Selama & Kerian 'Conceptual Study Untuk Sludge Dewatering Facility' Bagi Loji Rawatan Air Gunung Semanggol.
- Project Manager for Hydrology, Hydraulic, Water Quality and Thermal Plume Assessment for LUAS and EIA Submission for GS Paper.
- Project Manager for Kerja-Kerja Meningkatkan Sumber Air Mentah Di Loji Rawatan Air Gemas.
- Project Manager for Water Supply Demand and Distribution Study for Negeri Sembilan (SAINS).
- Project Manager for Relocation of Sg. Langat Raw Water Intake, Pump Station and Associated Raw Water Pipe for Hartalega NGC Sdn Bhd.
- Involved in Miri Water Supply Source Development Phase 2.
- Project Manager for Sg. Langat Water Abstraction Study for Proposed Water Intake for GS Paperboard.

Duration *June 1997 - December 2016*

Employer *Ranhill Bersekutu Sdn Bhd / Ranhill Consulting Sdn Bhd*

Position *Deputy Division Director : Jan 2016 - Dec 2016*
 Senior Associate : Jan 2015 - Dec 2015
 Project Manager/Associate : July 2004 - Dec 2014
 Lead Engineer/Manager : July 2002 - June 2004
 Principal Engineer : Sept 1999 - June 2002
 Senior Engineer : June 1997 - Aug 1999

Projects Involved:

- Project Manager for the Independent Checking Engineer role for sewerage works for Malaysia Debt Ventures Berhad. The works involved establishing baseline work programme and preparation of progress monitoring reports.
- Project Manager for the Study of Water Supply Scheme for Iskandar Development Region for Pengurusan Aset Air Berhad / SAJ Holdings Sdn Bhd. The scope of works include data collection, review of water demand projection, field investigation, network analyses using InfoWorks program and preparation of reports.
- Project Manager for the Proposed Langat II Distribution System (Western Corridor) for Pengurusan Aset Air Berhad. (Contract Value = RM500 Million). The scope comprises of 1150mm dia. to 2500mm dia. distribution pipes and various sizes of RC reservoir, ie 22 ML to 80 ML capacity.
- Project Manager for the Replacement of Weir at Raw Water Pumping Station Sg. Tinggi Dam, Selangor for Unit Perancang Ekonomi Negeri. (Contract Value = RM10.5 Million). The scope comprises of 45m length x 2.8 m high weir across Sg. Selangor and ancillary works.
- Lead Engineer for the Proposed Pagoh Water Treatment Plant and Distribution Works in Muar District for Pengurusan Aset Air Berhad. The works consist of a 40 MLD water

treatment plant, a 5.4 ML ground RC reservoir and trunk distribution mains with sizes ranging from 500 mm dia. to 1000 mm dia.

- Lead Engineer for the Proposed Extension of Kogopon Water Treatment Plant, in Papar District, Sabah for Jabatan Air Negeri Sabah. The scheme consists of a 40 MLD water treatment plant, reservoirs and trunk distribution mains.
- Lead Engineer for Ganchong Water Treatment Works in Pekan, Pahang for East Coast Economic Region Development Council. The works comprise of a 160 MLD water treatment plant, 1400 mm dia. and 1100 mm dia. trunk distribution mains, booster stations and reservoirs.
- Lead Engineer for Proposed Distribution works from Semangar Water Treatment Plant in Johor Bahru for Pengurusan Aset air Berhad. The works consist of 1400 mm dia. trunk distribution main, reservoirs, booster station and pipelines.
- Lead Engineer for the Distribution Study for Johor Bahru District for Pengurusan Aset Air Berhad. The scopes include data collection, field investigation, network analyses using InfoWorks program and preparation of reports.
- Lead Engineer for Raw Water Supply from Layang Dam to Bahru Stainless Plant in Tanjung Langsat, Johor for Johor State Government. The works consist of intake and raw water pumping station, and 600 mm dia. pumping main.
- Project Manager for the Proposed Water Supply System in Sedenak, Johor Bahru for SAJ Holdings Sdn. Bhd. (Contract Value = RM20 Million). These works consist of a 4.5 ML ground RC reservoir, access road, 600 mm dia. and 700 mm dia. Distribution pipes.
- Lead Engineer for the water supply system for Proposed 20,000 units of Residential Apartments, including Consultancy Services for the Master Planning and Design of Facilities Buildings, Common and Local Infrastructure Works and Services at West Benghazi New town, Libya for Great Socialist People's Libyan Arab Jamahiriya. The work comprises of reservoir, booster station and reticulation mains.
- Lead Engineer for the water supply system for Proposed 10,680 units of Residential Apartments, including Consultancy Services for the Master Planning and Design of Facilities Buildings, Common and Local Infrastructure Works and Services at Tajura, Libya for Great Socialist People's Libyan Arab Jamahiriya. The work comprises of reservoir, booster station and reticulation mains.
- Project Manager for the Distribution Improvement Works in Johor Bahru (3rd operating period) for SAJ Holdings Sdn. Bhd. (Contract Value = RM55 million). The works include 250mm dia. to 1200mm dia. distribution pipes.
- Project Manager for the Upgrading, Rehabilitation and Extension of Grisek Water Treatment Plant in Muar for SAJ Holdings Sdn. Bhd. (Contract Value = RM22 Million). The scope involves upgrading of treatment plant from 44.8 MLD to 62.2 MLD.
- Lead Engineer for Distribution Study for Optimization of Water Distribution from SSP1, SSP2 and SSP3 WTPs and to be upgraded Sg. Batu WTP for Syarikat Bekalan Air Selangor Sdn Bhd.

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- Project Manager for the proposed Diversion of Water Resource from Rasa Water Treatment Plant to Rawang and Bukit Sentosa Area for Puncak Niaga (M) Sdn Bhd (Contract Value = RM90 million). The work comprises of 20 km of 1500mm dia. MS pipeline.
 - Project Manager for the Proposed Water Supply System to Johor State New Administrative Centre in Johor Bahru for SAJ Holdings Sdn Bhd (Contract Value = RM10 million). The scope comprises of 1000mm dia. distribution main and 250mm dia. reticulation main.
 - Project Manager for the proposed Pipe Rehabilitation for Year 2004 for SAJ Holdings Sdn Bhd (Contract Value = RM30 Million). The scope consists of pipe replacement works in Johor Bahru, Kota Tinggi, Segamat, Pontian, Kluang and Muar districts.
 - Project Manager for the proposed 2.27 ML Elevated RC Reservoir and Ancillary Works at Taman Tiara, Tangkak, Muar District for SAJ Holdings Sdn Bhd.
 - Project Manager for the proposed 2.27 ML Elevated RC Reservoir and Ancillary Works at Serom 6, Muar for SAJ Holdings Sdn Bhd.
 - Project Manager for the proposed Improvement Works at Sengkang, Muar District for SAJ Holdings Sdn Bhd. The works comprise of 450 mm dia. and 500 mm dia. pipelines.
 - Project Manager for the proposed 1.14 ML Elevated RC Reservoir and Ancillary Works at Jeram Lama, Muar District for SAJ Holdings Sdn Bhd.
 - Project Manager for the proposed Improvement Works for Jalan Sialang, Tangkak, Muar District for SAJ Holdings Sdn Bhd. The scope comprises of 500 mm dia. and 250 mm dia. pipelines.
 - Project Manager for Improvement Works at Pagoh, Muar District for SAJ Holdings Sdn Bhd. The works comprise of a 2.27 ML ground RC reservoir, 350 mm dia. rising main and 250 mm dia. falling main.
 - Project Manager for Distribution Improvement Works for Bukit Gambot, Muar District for SAJ Holdings Sdn Bhd. The works consist of a 2.5 ML elevated RC reservoir at Pt. Mesjid and a 2.27 ML elevated RC reservoir at Paya Panjang.
 - Project Manager for Distribution Improvement Works in Bekok, Segamat District for SAJ Holdings Sdn Bhd. The Works comprise of 0.91 ML RC suction tank, 2.27 ML ground RC reservoir, booster station, staff quarters, pipeline, pumping and electrical plants.
 - Lead Engineer for New Mersing Water Supply Scheme for SAJ Holdings Sdn Bhd (Contract Value = RM35 million). The scope of the scheme consists of an intake, a 10 MLD water treatment plant, reservoir and distribution mains. Assisted Project Manager in contract administration and coordination of construction works. Also involved in the preparation of design concept, planning, field investigation, detailed design and documentation for the works.
 - Lead Engineer for the tender proposal for Kelar Water Supply Scheme, Pasir Mas for Air Kalantan Sdn Bhd. The scope of the scheme consists of an intake, a 54 MLD water

treatment plant, reservoirs, distribution mains and refurbishment of existing treatment works.

- Lead Engineer for Proposed Distribution Improvement Works to Replace Water Supply from PUB Offtakes in Johor (Zero Dependency) for SAJ Holdings Sdn Bhd (Contract Value = RM 375 million). Assisted Project Manager in contract administration and coordination of construction works. The works comprise of various sizes of distribution pipes, RC reservoirs and booster stations. Also involved in the preparation of design concept of the system, planning, field investigation, detailed design and documentation for the works.
- Lead Engineer for Semangar Water Supply Scheme for SAJ Holdings Sdn Bhd (Contract Value = RM 250 million). The scheme consists of an intake, a 160 MLD water treatment plant, reservoir and trunk distribution mains. Assisted Project Manager in contract administration and coordination of construction works. Also involved in the preparation of design concept, planning, field investigation, detailed design and documentation for the works.
- Involved in the Study of Proposed Water Supply System to Replace PUB Offtakes in Johor (Zero Dependency) for SAJ Holdings Sdn Bhd. The scope includes field investigation, network analyses using WATNET program and preparation of reports.
- Lead Engineer for Tenglu Water Treatment Works Extension, Mersing for Syarikat Air Johor Sdn Bhd (Contract Value = RM 8.1 million). Involved in planning, field investigation, detailed design, documentation and contract administration for the extension of treatment works capacity from 9 MLD to 15 MLD.
- Lead Engineer for Crash Program for Raw Water Transfer to Congok Dam, Mersing for Syarikat Air Johor Sdn Bhd (Contract Value = RM 3.1 million). Involved in planning, field investigation, detailed design, documentation, contract administration and supervision of the works which include river intake, pumping main, break pressure tank and falling main, to transfer 4.5 MLD of raw water to Congok Dam.
- Lead Engineer for Upgrading of Water Supply Distribution System for Simpang Renggam/Macap Area, Kluang District for Syarikat Air Johor Sdn Bhd (Contract Value = RM 3.4 million). Involved in network analyses, field investigation, detailed design, documentation and tender evaluation of the works which comprise of RC reservoirs and pipelines.
- Involved in the South East Johor Water Supply Master Plan Study for Syarikat Air Johor Sdn Bhd. The scope includes field investigation, network analyses using WATNET program, and preparation of reports and preliminary engineering design for the study.

Duration **June 1996 - June 1997**

Employer **ABL Consultants Sdn Bhd**

Position **Senior Civil Engineer**

Projects Involved:

- Involved in the master planning, detailed design, liaison with authorities, documentation and tender evaluation for infrastructure works for the proposed Behrang 2020 Township, Perak (approx. 900 acres) for Behrang 2020 Sdn Bhd.
- Involved in the master planning and preliminary design of infrastructure works for the proposed Mixed Development at Ijok, Selangor (approx. 200 acres) for Glomac Land Sdn Bhd.

Duration **Sept 1995 - May 1996**

Employer **Acer Consultants Sdn Bhd**

Position **Senior Civil Engineer**

Projects Involved:

- Design Engineer for the proposed sewage treatment plant which caters for 19,500 PE for Port Dickson Town, Negeri Sembilan for Indah Water Konsortium.
- Design Engineer for the proposed water supply system for Kawasan Perindustrian Tanjung Langsat for JSEDC Technopark Sdn Bhd. Involved in the planning, field investigation, detailed design, documentation and tender evaluation of proposed water supply system.

Duration **December 1991 - August 1995**

Employer **Acer Consultants Sdn Bhd**

Position **Senior Civil Engineer**

Projects Involved:

- Engineer for Projek Mempertingkatkan Sistem Agihan Air Di Daerah Johor Bahru for Syarikat Air Johor Sdn Bhd (Contract Value = RM 140 million). Involved in the site reconnaissance and feasibility study, coordination of topographical survey and supervision of soil investigation works, detailed design, documentation, tender evaluation, contract administration and supervision of the works. The works comprise of various sizes of distribution pipes, RC reservoirs and booster stations.
- Engineer for Review of Johor Bahru District Distribution Improvement Study and Priority of Implementation for Jabatan Bekalan Air, Negeri Johor. Involved in the field investigation, network analyses using WATNET program and preparation of reports.
- Design Engineer for the Water Supply and Sewerage System for Proposed Sg. Long Township, Cheras. Assisted in the detailed design and tender documentation of the proposed water supply and sewerage system for the development.

Duration *June 1991 - December 1991*

Employer *Pakatan Runding Yusoff Sdn Bhd*

Position *Civil Engineer*

Projects Involved:

- Design Engineer for Lahad Datu Water Supply Extension Scheme Phase II for Jabatan Air Negeri Sabah. Assisted in the design of water treatment plant.
- Design Engineer for Proposed Shop Houses in Sg. Buloh for Perbadanan Kemajuan Negeri Selangor. Assisted in the structural design of 1 ½ storey shop houses.

SAFRINA MOHD AZIZ

KEY EXPERIENCE

Engineer Safrina obtained her Bachelor of Engineering (Civil) Degree from Universiti Teknologi MARA in 2007. She further pursues her Master of Science in Civil Engineering (Environmental Engineering) in 2010.

Upon graduation in 2007, she starts her career at water operator company, namely Puncak Niaga (M) Sdn Bhd as Executive Engineer until 2013 before joined G&P.



During the service with Puncak Niaga, her duties are provide technical support for civil work, including planning, coordinating, implement and overseas operation and maintenance project (civil work) at water treatment plants and dams. Among projects involves are Upgrading of Residue Lagoon, Development of New Residue Depository Site, Rehabilitation of Sand Filters, Installation of Riverbank Protection at intakes and etc.

Working with G&P as Water Engineer, her task involves with design, preparing tender document, tender evaluation, cost estimation, submission for local authorities, project administration and project management.

POSITION

SENIOR ENGINEER

QUALIFICATION

- Master Science in Civil Engineering (Environmental Eng), Universiti Teknologi Mara, 2010
- Bachelor of Engineering (Hons) (Civil), Universiti Teknologi Mara, 2007
- Diploma in Civil Engineering, Universiti Teknologi Mara, 2004

PROFESSIONAL MEMBERSHIP

- Corporate Engineer, Institute of Engineer Malaysia (IEM)
- Graduate Engineer, Board of Engineer Malaysia (BEM)
- Ordinary Member, Malaysia Water Association (MWA)

EXPERIENCE

Duration *July 2013 - Present*

Employer *G&P Dams & Water Services Sdn Bhd*

Position *Senior Engineer* : *Jan 2018 - Present*
 Engineer : *Aug 2013 - Dec 2018*

Projects Involved:

- Engineering Consultancy Services for the Proposed Sg. Rengit/Pengerang Distribution Improvement, Sg. Sayong Sludge Treatment Facility and Rehabilitation of Bukit Tempayan Reservoir, Johor.
- NGC Raw Water Source Works (Sg Langat and Sg Labu Intakes, Pump Stations and Piping System for Raw Water and Effluent Discharge).
- Feasibility Study and Detailed Engineering Design for "Menaik Taraf Sistem Bekalan Air Lahad Datu".
- Feasibility Study for "The Proposed Development of Betong Raw Water Source, Bahagian Betong, Sarawak".
- The Proposed Miri Water Supply Source Development Phase 2, Miri Division.
- Kerja-Kerja Meningkatkan Sumber Air Mentah Bagi Loji Rawatan Air Gemas.
- Engineering Consultancy Services For "Water Supply Demand And Distribution Study For Negeri Sembilan".
- Rancangan Bekalan Air Daerah Larut Matang, Selama & Kerian 'Conceptual Study Untuk Sludge Dewatering Facility' Bagi Loji Rawatan Air Gunung Semanggol.
- Detailed Design, Tender Preparation and Construction Supervision for NGC Raw Water Source Works (Relocation of Sg Langat Intake, Pump Station, and Associated Raw Water Pipe).
- Engineering Consultancy Services for Water Supply Demand and Distribution Study for Jelebu, Jempol, Kuala Pilah & Tampin, Negeri Sembilan.
- Development of Batu Dam Operating Rules Curve (ORC).
- Dam Safety Review of Semenyih Dam 2018.
- Inspection of Balancing Reservoir at Sg Semenyih WTP.

Duration *Oct 2007 - June 2013*

Employer *Puncak Niaga (M) Sdn Bhd*

Position *Executive Engineer*

Projects Involved:

- Rehabilitation of Filter No. 2 at Batang Kali WTP.
- Refurbishment of Slow Sand Filter No. 4 at Ampang Intake WTP.
- Upgrading of Residue Lagoon & Residue Depository Area & Associated Works at SSP2 WTP.
- Repair Eroded Riverbank at Cheras Mile 11 WTP Intake.

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- Fabrication and Installation of New Residue Pumping Facilities for Desludging of Lagoons C1, C2, D1 and D2 and Development of New Depository Site at SSP2 WTP.
 - Rantau Panjang WTP Intake Riverbank Protection.
 - Installation of Raw Water Syphon System from Langat Dam to Sg Pangsoon WTP as alternative Source.

SHAZELIA ASHIKIN BINTI SULAIMAN

KEY EXPERIENCE

Shazelia Ashikin graduated from University Putra Malaysia with Bachelor of Agricultural and Biosystems Engineering (Hons.) and M.Sc in Soil and Water Engineering.



A versatile engineer with 2 years' experience working in Ranhill Bersekutu Sdn. Bhd (RBSB) before joined G&P. She has extensive knowledge and experience in hydraulic and water supply network analysis as well as exposure in water intakes and pipe laying design. She is passionate in exploring new things thus hydrogeology has been her research interest during postgraduate study.

She gained experience particularly in groundwater investigation and obtained Master of Science (M.Sc) in Soil and Water Engineering in 2015. Ambitious and goal oriented; she is committed to accomplish task given with proactive approach. She is also an enthusiastic team player who is able to strategize effectively to provide the best outcome. She strongly believes that with a right platform and exposure, she could utilize her potential and abilities as well as would be a great deal to the company.

Some of her involvements are as follows:

- Johor Water Resources Studies and Bulk Transfer Strategies.
- Pipe Replacement Programme in Selangor, Wilayah Persekutuan KL and Putrajaya for Year 2017/2018.
- Study of Water Supply Scheme for Iskandar Development Region (IDR).
- Independent Checking Engineer (ICE) role for sewerage pipework's in Kuala Lumpur.

POSITION

ENGINEER

QUALIFICATION

- M.Sc (Soil and Water Engineering), University Putra Malaysia, 2015
- B.E. of Agricultural and Biosystems (Hons.), University Putra Malaysia, 2012

PROFESSIONAL MEMBERSHIP

Graduate Engineer, Board of Engineers Malaysia (BEM)

EXPERIENCE

Duration *18 September, 2017 - Present*

Employer *G&P Dams & Water Services Sdn Bhd*

Position *Engineer*

Projects Involved:

- Water Supply Demand and Distribution Study for Seremban, Port Dickson and Rembau, Negeri Sembilan.
- Integrated Shoreline Management Program (ISMP) Kuching-Betong.
- Water Supply Demand and Distribution Study for Jelebu, Jempol, Kuala Pilah and Tampin, Negeri Sembilan.
- Conceptual Study of Sludge Dewatering Facility for Gunung Semanggol Water Treatment Plant.
- Kerja- kerja Meningkatkan Sumber Air Mentah Bagi Loji Rawatan Air Gemas.
- Study, planning, conceptual design development, detailed design.

Duration *September 2015 - September 2017*

Employer *Ranhill Bersekutu Sdn Bhd*

Position *Engineer (Water Resources)*

Projects Involved:

- Johor Water Resources Studies and Bulk Transfer Strategies.
- Pipe Replacement Programme in Selangor, Wilayah Persekutuan KL and Putrajaya for Year 2017/2018.
- Study of Water Supply Scheme for Iskandar Development Region (IDR).
- Independent Checking Engineer (ICE) role for sewerage pipework's in Kuala Lumpur.

Duration *May 2014 - May 2015*

Employer *EnviroSolution & Consulting (ESC) Sdn Bhd*

Position *Engineer (Soil and Groundwater)*

Projects Involved:

- Coordinated groundwater investigations and remediation through monitoring and evaluations.
- Performed engineering calculations for groundwater pumping test analysis.
- Developed a 3D structural model of polluted groundwater area for contaminant transport analysis using Surfer and Visual MOD Flow.

Duration *May 2012 - September 2014*

Employer *Universiti Putra Malaysia (UPM)*

Position *Graduate Research Assistant*

Projects Involved:

- Developed a physical aquifer model for research project, overcoming resources and funding limitation, with minimum supervision.
- Responsible for evaluating and interpreting aquifer characteristics for Malaysian Nuclear Agency, Selangor and private clients through analysis of pumping test.
- Experienced with resistivity exploration activities in order to find potential area of groundwater.

MOHAMAD FIRDAUS BINTI SHAM

KEY EXPERIENCE

Mohamad Firdaus graduated from University Tun Hussein Onn Malaysia (UTHM) with Bachelor Civil Engineering (Hons.).



A versatile engineer with 2 years' experience working in Mohd Asbi Associates Sdn. Bhd (MAASB) as Infrastructure Engineer and 1 year experience with Sime Darby Property Berhad as Development Executive before joined G&P. He has extensive knowledge and experience in infrastructural work such as Earthwork Design, Road & Drainage System, Sewerage Reticulation Design and as well as exposure in water intakes and pipe laying design.

Ambitious and goal oriented; he is committed to accomplish task given with proactive approach. He is also an enthusiastic team player who is able to strategize effectively to provide the best outcome. He strongly believes that with a right platform and exposure, he could utilize his potential and abilities as well as would be a great deal to the company.

Some of his involvements are as follows:

- Rehabilitation Works for Drainage, Culvert & Slopes for Pan Borneo Highway Sarawak
- Construction and Completion of Light Rail Transit Line 3 (LRT3) from Bandar Utama to Johan Setia - STN 22 Sri Andalas & STN18 Pasar Besar
- Construction and Completion of 864 units of Rumah Selangor Ku (RSKU), Cyberjaya
- Pond Design for Paroi Main Drain under Seriemas Development (Linsum Paroi)

PROJECT POSITION

ENGINEER

QUALIFICATION

Bachelor of Civil Engineering (Hons.), University Tun Hussien Onn Malaysia, 2015

PROFESSIONAL MEMBERSHIP

Graduate Engineer, Board of Engineers Malaysia (BEM)

EXPERIENCE

Duration *1 October 2018 - Present*

Employer *G&P Dams & Water Services Sdn Bhd*

Position *Engineer*

Projects Involved:

- Water Supply Demand and Distribution Study for Jelebu, Jempol, Kuala Pilah and Tampin, Negeri Sembilan.

Duration *November 2016 - September 2018*

Employer *Mohd Asbi Associates Sdn Bhd*

Position *Engineer (Infrastructural)*

Projects Involved:

- Rehabilitation Works for Drainage, Culvert & Slopes for Pan Borneo Highway Sarawak
 - i. Involved in field mapping of Pan Borneo Highway Sarawak (120km in length) by recording their size, length, characteristic, type of failure, location, and take photograph of the above mentioned item.
 - ii. Determine the capacity and condition of existing culvert, drainage & slope by using all data acquired during field mapping and propose rectification works.
 - iii. Provide BQ for proposed rectification works.
- Construction and Completion of Light Rail Transit Line 3 (LRT3) from Bandar Utama to Johan Setia - STN 22 Sri Andalas & STN18 Pasar Besar
 - i. Involved in detailed design process for all local infrastructural works including Earthwork (Cut & Fill volume, Sediment Basin/Trap design, Temporary Earth Drain design), Drainage System (Drain & Culvert design, On Site Detention pond (OSD) design, Rainwater Harvesting Tank design), Sewerage Reticulation (Population Equivalent calculation, Sewerage Reticulation pipe line design) & Water Reticulation (Water Demand calculation, Water Reticulation works design) using both spreadsheet (Microsoft Excel) and civil works design software (Civil 3D & MiTS)
 - ii. Involved in submission process with authority:
 - a. Majlis Perbandaran Klang for Kebenaran Merancang (KM) and Engineering Submission - Earthwork and Road & Drainage Submission
 - b. Indah Water Konsortium (IWK) for Sewerage Reticulation Submission
 - c. Air Selangor – Water Reticulation Submission
- Construction and Completion of 864 units of Rumah Selangor Ku (RSKU), Cyberjaya
 - i. Involved in detailed design process for all local infrastructural works including Earthwork (Cut & Fill volume, Sediment Basin/Trap design, Temporary Earth Drain design), Drainage System (Drain & Culvert design, On Site Detention pond (OSD) design, Rainwater Harvesting Tank design), Sewerage Reticulation (Population Equivalent calculation, Sewerage Reticulation pipe line design) & Water Reticulation (Water Demand calculation, Water Reticulation works design)

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- using both spreadsheet (Microsoft Excel) and civil works design software (Civil 3D & MiTS)
 - ii. Involved in submission process with authority:
 - a. Majlis Perbandaran Sepang for Kebenaran Merancang (KM) and Engineering Submission - Earthwork and Road & Drainage Submission
 - b. Indah Water Konsortium (IWK) for Sewerage Reticulation Submission
 - c. Air Selangor – Water Reticulation Submission
 - Pond Design for Paroi Main Drain under Seriemas Development (Linsum Paroi)
 - i. Assisting in designing pond for this development using MiTS software and produce detail report and drawing to be incorporated in the submission report.
 - Construction and Completion of 14 Floor Palace Hotel Building, Jalan Tunku Abdul Rahman, Kuala Lumpur
 - i. Involved in Road & Drainage, Water Reticulation and Sewerage Reticulation construction phase.
 - ii. Involved in dealing with authority to get the approval for:
 - a. Air Selangor: QT 1 – QT 10 submission (inspection phase by SYABAS Wilayah until Requesting for Water Meter by SYABAS HQ)
 - b. Indah Water Konsortium (IWK): PDC 2 – PDC 8 submission
 - c. Dewan Bandaraya Kuala Lumpur (DBKL): Resubmission for R&D submission to appeal design requested by the client.

Duration **September 2015 - September 2016**

Employer **Sime Darby Property Berhad**

Position **Executive (Development)**

Projects Involved:

- Handling & monitoring site projects from HQ regarding project progress, issues & concern.
- Preparing reports, i.e. Progress Report, Development Services Report & Property Development Management Committee (PDMC) Report.

MOHD YAZID BIN ABU HANIPAH

KEY EXPERIENCE

Mr. Mohd Yazid started his career with BW Perunding Sdn Bhd in year 1990 as Site Technician after completing his study at Politeknik Ungku Omar, Ipoh. He then continued further study and gain his Diploma in Civil Engineering from Politeknik Sultan Salahuddin Abd Aziz Shah, Shah Alam. He attained his certification in Computer Aided Design Drafting (CADD) from ACEM and followed by AutoCAD Civil 3D conducted by Autodesk.



He worked for GHD Perunding Sdn Bhd as design drafter in 2007 before joining G&P Professionals Sdn Bhd in year 2010. He has over 27 years of experiences in consulting environment and has extensive exposure particularly in Civil and Water infrastructure works e.g. detailed designs of raw/treated water pumping main, water treatment plants, wastewater treatment plants, storage tanks and etc. He is also involved in other study projects, doing mapping and preparing figure works.

As a Draughtsperson, he ensures good quality engineering drawings / works are produced in accordance with G&P standards or client's drafting requirements as well as to meet the given time schedule. He is able to multi task, work independently and committed.

POSITION

SENIOR DRAUGHTSPERSON

ROLE

- To carry out detail drafting, technical design and basic technical task requiring accuracy in calculations, completeness of data and adherence to prescribed drafting methods.
- To prepare draft engineering designs and specifications for projects using standardized methods and prepare segments of the design work for projects assigned to and supervised by Associate Civil Engineers.

QUALIFICATION

- Dip. in Civil Engineering, Politeknik Sultan Salahuddin Abdul Aziz Shah, Shah Alam , 2011
- Cert. in Civil Engineering, Politeknik Ungku Omar, Ipoh, 1988

EXPERIENCE

Duration *Jan 2013 - Present*
Employer *G&P Dams & Water Services Sdn Bhd*
Position *Senior Draughtsperson*

Projects Involved:

- Projek Membina Kolam Takungan Banjir dan Kerja-kerja Berkaitan di Kampung Tok Aminuddin, Mukim Dengkil, Daerah Sepang, Selangor. (Fasa 1)
- Drainage System for East Cost Rail Link (ECRL)
- Water Supply Demand and Distribution Study for Negeri Sembilan.
- Kerja-kerja Meningkatkan Sumber Air Mentah Di Loji Rawatan Air Gemas.
- Engineering Consultancy Services for Water Supply Demand And Distribution Study for Negeri Sembilan.
- Detailed Design, Tender Preparation And Construction Supervision For NGC Package 1 Works (Sg Labu Intake, Pump Station, And Piping System For Raw Water And Effluent Discharge).
- Feasibility Study and Detailed Engineering Design for "Menaiktaraf Sistem Bekalan Air di Lahad Datu"
- Proposed Sg. Rengit/Pengerang Distribution Improvement, Sg. Sayong Sludge Treatment Facility and Rehabilitation of Bukit Tempayan Reservoir, Batu Pahat.
- Projek Perintis Penggunaan Kaedah Penapisan Tebing Sungai (River Bank Filtration) Di Loji Kota Lama Kiri, Kuala Kangsar.
- Investigation, Survey, Design, Tender Documentation and Construction Supervision of the Miri Water Supply Source Development in Miri, Sarawak.

Duration *July 2010 - Dec 2012*
Employer *G&P Professional Sdn Bhd*
Position *Hydraulics/Water Draughtsperson*

Projects Involved:

- Hulu Terengganu Hidro-Electric Dam Project.
- Traffic Impact Assessment for Proposed Residential Development on Lot 30351, Mukim Setapak, Wilayah Persekutuan Kuala Lumpur.
- Traffic Impact Assessment for Proposed "The Matte" Service Apartment Development at Lot 358, 360 & 361, Jalan Talalla, Kuala Lumpur.
- Traffic Study for the Proposed Paroi-Senawang-KLIA Highway.

Duration **Nov 2007 - June 2010**

Employer **GHD Perunding Sdn Bhd**

Position **Design Drafter**

Projects Involved:

- Mardi to Mangrove Link Project - Structural, Water Piping and Mechanical Ventilation Design, Newcastle, NSW Australia.
- Pre-Feasibility & Feasibility Study of Baleh HEP Dam, Sarawak.
- Mandurah Lakes Road, DN1400 Pipeline and Tank Site Work, Western Australia.
- Mudgee Sewerage Augmentation, NSW Australia. Detail Design for The New Waste Water Treatment Plant.
- Detail Design for Relocation of TSE Reservoir and Potable Water Pump Station for Al Raha Gardens, Abu Dhabi.
- Karratha No. 1 Wastewater Treatment Plant Process Improvement, Western Australia.
- Transfer System for Orange City Council, NSW Australia - Design of New Pumping Station and Pipeline.
- Stormwater Management Facilities Sg. Petani, Kedah.
- Analysis & Reporting - Technical Report Preparation for Perak Groundwater Study.

Duration **Dec 1990 - Oct 2007**

Employer **BW Perunding Sdn Bhd**

Position **Site Supervisor cum Draughtsperson**

Projects Involved (Drafting):

- Bina/Pasang Loji/Kolam Takungan dan Paip Utama Kulim, Kedah Darul Aman.
- Padang Terap Water Supply Scheme.
- Bulk Transfer of Treated Water from Semenyih Balancing Reservoir to Sg. Langat Distribution System.
- Bina/Pasang Loji/Kolam Takungan dan Paip Utama Daerah Kerian, Perak Darul Ridzuan.
- Bekalan Air Bandar Baharu - Membina dan Menyiapkan Muka Sauk, Loji Pembersihan Air Berkapasiti 25MLD dan Kerja-kerja Berkaitan di Lubok Buntar, Kedah Darul Aman.
- Projek Meningkatkan Kapasiti dan Keupayaan Bekalan Air Wilayah Persekutuan Labuan - Kerja-kerja Membaikpulih Telaga Tiub sedia ada, Termasuk Penggantian Paip Air Mentah, Pengubahsuaian Loji Rawatan Air Jalan kolam.
- Pembinaan Loji Beaufort Fasa II dan Pemasangan Paip Dasar Laut dari Loji ke Labuan.
- Cadangan Pemasangan Paip di Jalan Baru JKR iaitu Jalan Slim - Proton City - Persimpangan Bertingkat PLUS di Behrang, Perak.
- TTDI Jaya Shah Alam Flood Mitigation - Proposed Pump Sump and Operator Room.
- Consultancy Services for Detailed Engineering Design And Construction Supervision of Asset Rehabilitation And Upgrading Programme For Syabas.
- Pulau Tuba and Pulau Dayang Bunting Water Supply.

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- Projek Bekalan Air Setiu Peringkat 2 - Pembinaan Tangki Penyedut dan Rumah Pam, Tangki-tangki Simpanan, Paip-paip Graviti dan Mengepam.
 - Pembinaan Skim Bekalan Air Arau Fasa II - Membina dan Menyiapkan Loji Pembersihan Air Arau Fasa IV Berkapasiti 123 MLD serta Kerja-kerja Berkaitan, Meliputi Kerja-kerja M&E.
 - Projek Bekalan Air ke Puncak Gunung Raya, Langkawi.
 - Education Improvement Project Under World Bank Loan, Upgrading of Existing Polytechnics for Politeknik Sultan Ahmad Shah, Kuantan Pahang.
 - Bekalan Air Kuala Rompin (Persisiran Pantai) - Membina dan Menyiapkan Sebuah Loji Air dan Kerja-kerja Berkaitan di Sepayang, Rompin.

Projects Involved (Site Supervision):

- Permanent Water Supply to Tanjung Bin Coal Fired Power Plant, Johor Darul Ta'zim (DN500mm Dia. Submarine Water Pipeline accros Sg. Pontian - 800m length).
- Bina/Pasang Loji/Kolam Takungan dan Paip Utama Daerah Kerian, Perak Darul Ridzuan.
- Pipe Replacement Programme for Kluang District, Johor Darul Ta'zim.
- Leakage Control and NRW works for Kota Tinggi and Segamat, Johor Darul Ta'zim.
- Johor Bahru NRW Control project, Johor Darul Ta'zim.

AHMAD SUHAIMI BIN SUDARMAN

KEY EXPERIENCE

Mr. Ahmad Suhaimi Bin Sudarman has worked as a draftsman since 2003 after he has completed his higher education. He has attained his certification in Computer Aided Design Drafting (CADD) from Institut Kemahiran Mara (IKM) and Diploma in Building Surveying from Universiti Teknologi Mara (UiTM). At present he has a total of twelve years in Civil & Structural Drafting and Site Supervision.



POSITION

DRAUGHTSPERSON / CLERK OF WORKS

ROLE

To carry out detail drafting, technical design and basic technical task requiring accuracy in calculations, completeness of data and adherence to prescribed drafting methods.

QUALIFICATION

Dip. in Building Surveying, UiTM, Shah Alam, 2003

EXPERIENCE

Duration *2012 - Present*

Employer *G&P Dams & Water Services Sdn Bhd*

Position *Draughtsperson*

Projects Involved:

- Water Supply Demand and Distribution Study for Jelebu, Jempol, Kuala Pilah & Tampin, Negeri Sembilan
- Permohonan Kebenaran Merancang Bagi Cadangan Pembangunan Bercampur Di Atas Lot Pt 23603 (H.S.D. 18579) Dan Lot Pt 23604 (H.S.D. 18580) Seluas 279.867 Ekar, Mukim Bentong, Daerah Bentong, Pahang Darul Makmur Untuk Tetuan Sering Manis Sdn. Bhd. (Genting ESCP)
- East Coast Rail Link Project (ECRL)
- Detailed Design, Tender Preparation and Construction Supervision For NGC Raw Water Source Works (Relocation of Sg Langat Intake, Pump Station, and Associated Raw Water Pipe)
- Water Supply Demand and Distribution Study for Negeri Sembilan.
- Kerja-Kerja Meningkatkan Sumber Air Mentah di Loji Rawatan Air Gemas, Negeri Sembilan.

- Construction and Completion of new Sg. Langat Intakes, Pump Stations, Piping System for Raw Water and Associated Works.
- Proposed Bintulu Water Treatment Plant Extension.
- Feasibility Study for the Proposed Development OF Betong RAW Water Source.
- Detailed Design, Bekalan Air Untuk Cadangan Pembangunan Bercampur Gerbang Nusajaya Mukim Pulau Johor Bahru.
- Detailed Design, Tender Preparation And Construction Supervision For NGC Package 1 Works (Sg Labu Intake, Pump Station, And Piping System For Raw Water And Effluent Discharge).
- Feasibility Study and Detailed Engineering Design for “Menaiktaraf Sistem Bekalan Air di Lahad Datu”.
- Proposed Sg. Rengit/Pengerang Distribution Improvement, Sg. Sayong Sludge Treatment Facility and Rehabilitation of Bukit Tempayan Reservoir, Batu Pahat.
- Projek Perintis Penggunaan Kaedah Penapisan Tebing Sungai (River Bank Filtration) Di Loji Kota Lama Kiri, Kuala Kangsar.
- Investigation, Survey, Design, Tender Documentation and Construction Supervision of the Miri Water Supply Source Development in Miri, Sarawak.

Duration **2010 - 2012**

Employer **Gagasan Konsultant Sdn Bhd**

Position **Clerk of Work**

Projects Involved:

- Supervised the Construction and Completion of Rural Water Supply Pahang (BALB) 2011/2012 for Ministry of Rural and Regional Development.

Duration **2005 - 2010**

Employer **GHD Perunding Sdn Bhd**

Position **Draughtsperson**

Projects Involved:

- Team member for New Headquarters for the Kuantan City Council, Kuantan, Pahang, Malaysia (Civil & Structure Drafter).
- Team member for Saadiyat Beach Apartments, Saadiyat Island, Abu Dhabi, United Arab Emirates (Drafter).
- Team member for Goonyella to Abbot Point Expansion Project Briabra Deviation (Coal Connect GAP Alliance (CCA) project) (Drafter).
- Team member for Salisbury to Kuraby Third Road project (Queensland Rail) ‘As Built Drawing’ (Drafter).
- Team member for Kellets Road Drain Wetland Project (Drafting).
- Team member for Stirling Main to North Mandurah Tank (Drafting).
- Team member for Drafting Drainage Plans for Wagga Council (Drafting).

- Team member for RAAF PEARCE - Detail drainage drafting (Drafting).
- Team member for Coal Connect GAP Alliance (CCA) project (Drafter).
- Team member for PMC for ICT Infrastructure and Services for SSM (Drafter).
- Team member for Transfer System For Orange City Council project (Drafter).
- Team member for Civil KWA 11 Unit Shop Office Petaling (SBLai) (Drafter).
- Proposed Development of Driver Training Academy Complexes (Automotive Centre of Excellence - ACE), on One Portion of Lot 5, Sungai Ular, Kulim District, Kedah Darul Aman State. Civil design drafter (Roads and transportation).
- Draftsperson for Upgrade Dual Carriageway from Wolongga to Walls Crossing for New South Wales Road Transport Australia.
- Draftsperson for Upgrade Dual Carriageway from Kempsey to Taree for New South Wales Road Transport Australia.
- Supervised the Construction and Completion of Rural Water Supply Pahang (BALB) 2006 for Ministry of Rural and Regional Development.

Duration **2003 - 2005**

Employer **Angkasa Jurutera Perunding Sdn Bhd**

Position **Draughtsperson cum Clerk of Work**

Projects Involved:

- Draftsperson for 2 storey shophouses & terrace houses at Sungai Isap for Perusahaan Pertanian Negeri Pahang.
- Draftsperson for Single storey Hostel/Dormitory at Gambang, Daerah Kuantan for Gambang Plantation Sdn. Bhd.
- Draftsperson of work for Celcom Tower for all Eastern Region.
- Draftsperson for Proposed Housing Scheme for Kempadang Makmur, at Lot 46479, Kampung Kempadang, Mukim Kuala Kuantan, Daerah Kuantan, Pahang.
- Draftsperson for Construction of Weir, Pump House, Water Tank at Loji Air Lurah Bilut, Bentong, Pahang for Felda Engineering Sdn. Bhd.

Projects Involved (Site Supervision):

- Supervised and Draftsperson the Construction and Completion of “Projek Membina Sebuah Kilang Penyalutan Paip Alaf Baru, Fasa 2 DiKawasan Perindustrian Gebeng, Daerah Kuantan Pahang Darul Makmur”, at Plant 3, PPSC Industries Sdn. Bhd.
- Involved in Site Supervising Works Which Included Earthwork, Setting out of Building, Piling Works and concreting work for Pile Caps, Ground Beams and Slabs For The Project “Cadangan Membina Dan Menyiapkan Sebuah Bangunan Dua Tingkat Untuk LKPIM Pahang Di Jalan Telok Sisek Mukim Kuala Kuantan, Daerah Kuantan, Pahang Darul Makmur.

The Water Specialist



Ir. Dr. Gue See Sew is a renowned Geotechnical Engineer in Malaysia and South East Asia. He has contributed greatly to the technical advancement and quality control of Engineering Profession in Malaysia. He has 37 years of working experience, with major expertise in geotechnical design, failure investigations and remedial proposals, expert witness and arbitrator/adjustor.

Dato Ir. Dr. Gue See Sew

Ir. Chong has 40 years working experiences. He served in the Department of Irrigation and Drainage (DID) from 1978 to 2003. He was involved in numerous projects on hydrology, water resources, irrigation and drainage. His area of specialization is in hydrology and water resources analysis. He is presently involved in the National Water Resources Study handling the hydrological study for the whole country.



Ir. Chong Sun Fatt

Ir. Beh has over 38 years of experience in the planning, design, implementation and contract administration of large-scale water supply schemes throughout Malaysia. He has specific skills in the design of Dissolved Air Flotation (DAF) treatment process and the upgrading/rehabilitation of existing treatment plants. Some of his recent involvements are:-



Ir. Beh Hong Lin

- Asset Management, GIS & Network Modelling for Sibu Water Board, Sarawak.
- Pump station relocation for Al Raha Garden, Abu Dhabi. Project Director for design of reservoir and pump station relocation to ensure safety and ease of operation.
- Infra Structure Design of 50 Mld Groundwater Treatment Works for Sime Darby. Project Director for conceptual design of WTP, pipe network system and associated infra works.

Ir. Kho has 26 years of working experiences with water supply management is his area of specialization. Some of his involvements in water supply works are:-

- Head of Non-Revenue Water Unit (NRW) at LAKU Management, Miri, Sarawak. Task include leak auditing and detection, mapping of existing water pipeline, and short and long term planning for reduction of NRW.
- Executive Engineer in the Engineering and Planning Division at LAKU Management. Set up and took charge of the Engineering and Planning Department. Tasks included planning for major developments of water supply projects in Miri and Limbang. Design of water pipeline extension, preparation of tender and contract documents,



Ir. Kho Lip Khiong



Ir. Liew Shaw Shong

Ir. Liew has 26 years of experiences specialized in instrumentation, foundation for structures, retaining structure design, basement construction, soil and rock slopes stabilisation, earthwork compaction, reclamation, soft ground engineering geotechnical forensic investigation. Some of his involvement on dam included Rock Slope Stability Assessment at Powerhouse Tailrace of Bakun Dam, stability assessment on dam stability on Putrajaya Dam, and Geotechnical Design review on Dam Foundation, structure, and diversion tunnel for Sungai Selangor Dam.

Ir. Lim has more than 26 years of experiences. He started his career as civil engineer at SMHB in 1994, involved in the design of water treatment plant and hydraulic analysis. He was appointed as section head by Loh & Loh Sdn Bhd in year 2000, leading the construction team in the construction of RASA water treatment plant. His area of specialization is hydraulic and water resources modelling.



Ir. Lim Sin Poh



Ir. Ho Kien Siong

Ir. Ho Kien Siong has over 20 years of experience in planning, design, implementation and contract administration of large scale water supply schemes throughout Malaysia and oversea. He has specific skills in the design of all treatment systems in water and waste water treatment plants, such as hydraulic system, treatment system, chemical system, aeration system, sludge disposal system, mechanical system, good handling system and other associated systems.

Ir. Mohd Fairuz has over 16 years of experience in spearheading high value project management and quality leadership in energy management, renewable energy, water/wastewater, M&E engineering as well as engineering, procurement, constructions and commissioning projects. Known as an excellent communicator in interacting with clients, stakeholders and team members alike.



Ir. Mohd Fairuz



Ir. Jamaiatul Lailah

Ir. Jamaiatul Lailah has over 15 years of working experience in the water and wastewater industry. From 2002 to 2015, while holding the positions of Engineer in a sewerage system specialist company, Senior Executive in the National Water Services Commission (SPAN), and Manager in the National Sewerage Company, Indah Water Konsortium (IWK), she planned and designed wastewater treatment systems for new development and refurbishment projects in Peninsular Malaysia, Sabah and Sarawak.

Project Experiences

Water Treatment Plant and Distribution Systems projects:-

Proposed Sg. Rengit/Pengerang Distribution Improvement, Sg. Sayong Sludge Treatment Facility and Rehabilitation of Bukit Tempayan Reservoir, Batu Pahat.



Package 1 - Construction And Completion of 2 ML Bukit Tempayan Reservoir And Associated Works

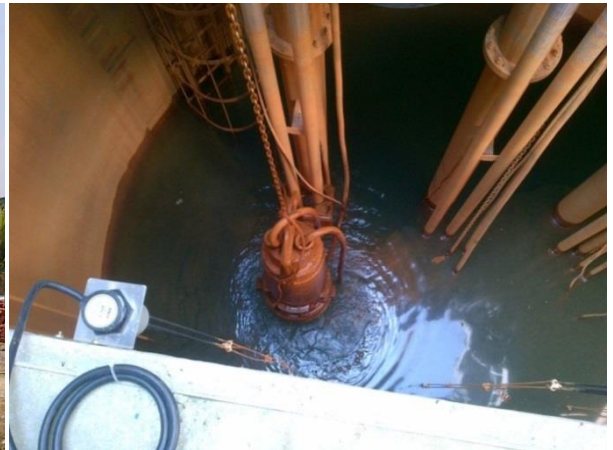


Package 2: Construction And Completion of Sg. Sayong Sludge Treatment Facility And Associated Works



Package 3: Construction and Completion of Distribution Improvement Works at Sg Rengit/ Pengerang and Associated Works

Water Treatment Plant and Distribution Systems projects (cont'):-



Projek Perintis Penggunaan Kaedah Penapisan Tebing Sungai (River Bank Filtration) di Loji Kota Lama Kiri, Kuala Kangsar



Sg. Labu & Sg. Langat Intakes, Pump Stations, Piping System for Raw Water and Effluent Discharge and Associated Works



Water Treatment Plant and Distribution Systems projects (cont'):-



Kerja-kerja Meningkatkan Sumber Air Mentah Di Loji Rawatan Air Gemas



Conceptual Study Untuk Sludge Dewatering Facility Bagi Loji Rawatan Air Gunung Semanggol Rancangan Bekalan Air Daerah Larut Matang, Selama dan Kerian



Water Treatment Plant and Distribution Systems projects (cont'):-

- Engineering Consultancy Services For Water Supply Demand And distribution Study For Negeri Sembilan (SAINS)
- Conceptual Study Untuk Sludge Dewatering Facility Bagi Loji Rawatan Air Gunung Semanggol - Rancangan Bekalan Air Daerah Matang, Selama & Kerian
- Hydrology,Hydraulic,Water Quality and Thermal Plume Assessment for LUAS and EIA Submission for GS Paper
- Tailing Dam Engineering for Tawau Gold Mine
- Detailed Design, Tender Preparation and Construction Supervision for NGC Raw Water Source Works (Relocation of Sg Langat Intake, Pump Station, And Associated Raw Water Pipe
- Proposed Bintulu Water Treatment Plant Extension
- Engineering Design for “Bekalan Air untuk Cadangan Pembangunan Bercampur Gerbang Nusajaya
- Proposed Groundwater Well Construction, Development and Supply at BERJAYA CITY Industrial Zone (Lot 25), Mukim Sungai Tinggi, Daerah Hulu Selangor, Selangor Darul Ehsan
- Detailed Design, Tender Preparation And Construction Supervision For NGC Raw Water Source Works (Sg Labu & Sg Langat Intakes, Pump Stations, And Piping System For Raw Water And Effluent Discharge)
- Feasibility Study and Detailed Engineering Design for “Menaiktaraf Sistem Bekalan Air Lahad Datu”
- Projek Perintis Penggunaan Kaedah Penapisan Tebing Sungai (River Bank Filtration) Bagi Loji Rawatan Air Kota Lama Kiri, Kuala Kangsar, Perak
- Projek Pemasangan Paip Air Mentah dan Aerator Bagi Loji Rawatan Air Kota Lama Kiri, Kuala Kangsar, Perak
- Proposed Bertam DAF Phase 2 Water Treatment Plant, Durian Tunggal, Melaka
- Review of Tianchang WTP Process Improvement Report
- Investigation, Survey, Design, Tender Documentation and Construction Supervision of the Miri Water Supply Source Development in Miri, Sarawak
- Proposed Sg. Rengit/Pengerang Distribution Improvement, Sg. Sayong Sludge Treatment Facility and Rehabilitation of Bukit Tempayan Reservoir, Batu Pahat, Johor Darul Takzim
- Projek Bekalan Air Luar Bandar (BALB) di Negeri Sarawak Tahun 2010 - 2012

Dam Project:-

- Similajau Dam Conceptual Report Preparation for M&E Services
- Design & Build Project for Full Refurbishment Works at Pedu Dam, Muda Agricultural Development Authority (MADA), Kedah

Some of the previous water supply, dam engineering and water resources projects are:-

(Including personal experience of the Principals)

- Kerja-Kerja Meningkatkan Sumber Air Mentah Di Logi Rawatan Air Gemas, Negeri Sembilan
- Kajian Dan Pengambilan Tanah Bagi Skim Bekalan Air Lembangan Sg Linggi (Bunded Storage), Negeri Sembilan
- Feasibility Study for the Proposed Development of Betong Raw Water Source, Bahagian Betong, Sarawak
- Feasibility Study for the Proposed Raw Water Source Development and Raw Water Transfer System for the Board's Batu Kitang Water Treatment Plant Complex
- Design of Sungai Selangor Water Supply Scheme Phase 1
- Design of Bintulu Water Supply Phase 3
- Design of New Bertam DAF water treatment plant
- Design of Hilir Perak Water Supply Scheme
- Design of Sg Muda Water Supply Scheme Ph 4A
- Design of 32 mgd Greater Kuantan Water Supply Project
- Laying of 500mm diameter HDPE submarine treated water pipe about 500m long across Sg Kuantan river mouth
- Perak Groundwater Infra structure design
- Design of 1.0 mgd groundwater scheme for Wangsa Maju, KL
- Tawau Water Supply Scheme Stage 2
- Miri and Limbang Water Supply Masterplan Study
- Identification of future water supply catchments, maintenance and operation of hydrological department, coordination and implementation of Miri Water Supply 3rd Expansion Project
- Ensuring the production, distribution and revenue collection of treated drinking water in Miri town

-
- Geotechnical Design review on Dam Foundation of Sungai Selangor Dam
 - Rock Slope Stability Assessment at Powerhouse Tailrace of Bakun Dam
 - Monitoring of Putrajaya Dam
 - Review and Analysis of Probable Maximum Precipitation for Babagon Dam, Sabah
 - Dam Break Analysis and The Socio-Economic and Environmental Impact Study for The Kenyir Power Station
 - Development of Emergency Action Plans for Perak River Hydro Scheme
 - Water Resources Study for the Northern Region of Peninsular Malaysia
 - Sg Perak Integrated River Basin Management (IRBM) Study
 - Review of The National Water Resources Study and Formulation of National Water Resources Policy (Hydrology, Irrigation and Water Resources Modelling)
 - Leak auditing and detection, mapping of existing water pipeline, and short and long term planning for reduction of NRW.
 - Site investigation and survey works for MURUM Hydroelectricity Power Project (HEP).
 - Electrowatt – SMHBJV for preliminary study for MURUM HEP
 - Upgrading of Hamilton Water Treatment Station
 - Whangarei Heads Sewerage Scheme Stage 3
 - Design of pump station, rising and community mains for Taupiri Wastewater Reticulation Project
 - Investigation, design and supervision of upgrading works for Auckland Metrowater's wastewater and storm water pump stations as part of O,S&H Upgrades

G&P Experience in Pipeline Design

(Including personal experience of the Principals)

- Project Management Service - Pipeline Design
- Design of raw water main for 100 Mld Bintulu WTP phase 3
- Design of raw and treated water main of various diameters for 106 Mld Hilir Perak water supply project
- Water distribution network study for Kluang, Johor
- Design of raw and treated water main of various diameters for 54.6 Mld Sg Lebam water supply project
- Design of 1500mm diameter raw water main for 145 Mld Semambu WTP, Kuantan
- Design of 450mm diameter submarine pipeline across Sg Kuantan
- Geotechnical forensic report on the pipe bridge failure at Pulau Indah
- Maritime engineering consultancy services for Proposed New Steel Pipe Pile Fabrication Factory and Loading/Unloading Jetty at Lumut Perak
- Full Geotechnical Consultancy Service for Tank Foundation Design for KVDT Tank Conversion Project at PS Pipeline, Dengkil, Puchong, Selangor
- Geotechnical investigation and remedial works for gas pipeline at Salak Tinggi, Selangor
- Investigation into Monsoon Drain Failure over PGB Gas Pipeline, Tg. Langsat, Pasir Gudang, Johor
- Geotechnical Assessment of Petronas Gas Bhd's Metering Station Area at MTBE Metering Station, Gebeng, Pahang
- Independent geotechnical review on the temporary retaining wall and support system for the excavation of an approximately 6m to 9m deep trench for the laying of large diameter pipes as part of the works for the construction of the Panglima Power Station
- Geotechnical interpretative reporting on the use of horizontal directional drilling method for underground pipe laying of the construction and commissioning of the Lebuhraya Damansara Puchong Crossing - Maico, PJ
- Geotechnical review of the method statement of pipe jacking work under Lebuhraya Damansara Puchong
- Jack In Spun Piles Alternative Design for Commercial Development at SS6/3 in Petaling Jaya
- Jack-in Pile Alternative Design for 24 Storey Apartment at Mukim Petaling (SOHO)
- Alternative Geotechnical Design using Jack-in Spun Piles for highrise commercial development at Section 13, Petaling Jaya

-
- Alternative Geotechnical Design using Jack-in Spun Piles for fire brigade headquarters in Putrajaya
 - Geotechnical analysis and prediction of embankment deformation due to pipe jacking in Vietnam

Sewage Treatment projects:-

- Bi Act SDO System (Hybrid System) for STP in Taman Damansara Aliff, Johor Bharu, Johor (50,800PE & 75,000PE).
- Hybrid System of Attached Growth and Suspended Growth System with tertiary treatment to achieve Class IIB standard for STP in Forest City, Johor Bharu, Johor - Phase 1 (9,800PE).
- Extended Aeration System with tertiary treatment to achieve Class IIB standard for STP in Forest City Johor Bharu, Johor (2,000PE).
- Sequencing Batch Reactors System for STP in Pengerang Johor (100,000PE).
- Extended Aeration System for STPs in Bandar Dato' Onn, Johor (46,250PE), Batu Pahat, Johor (17,600PE), Pulau Pangkor, Perak (30,000PE).
- Sequencing Batch Reactors System with Membrane Bioreactor (17,813PE) Wastewater Management Solution with the Integration of Wetland Design Concept in Forest City, Johor.
- Wastewater Treatment System for Wet Markets located in Selayang Town Council (Rotating Biological Disc System - 150 m³/day) under River of Life program.

(Borang F)

AKTA PENDAFTARAN JURUTERA 1967
PERATURAN-PERATURAN PENDAFTARAN JURUTERA 1990
(PERATURAN 35)

No. Perakuan: 1911-1230-BC-1152

LEMBAGA JURUTERA MALAYSIA

PERAKUAN PENDAFTARAN SEBAGAI AMALAN JURUTERA PERUNDING

INI ADALAH UNTUK MEMPERAKUI BAHAWA

Nama: **Pertubuhan Perbadanan
G&P DAMS & WATER SERVICES SDN. BHD.**

Alamat: **23-5 JALAN TASIK SELATAN 3
BANDAR TASIK SELATAN
57000 KUALA LUMPUR W. PERSEKUTUAN (K.L)**

Cawangan Kejuruteraan: **** CIVIL, MECHANICAL, ELECTRICAL ****

yang telah mematuhi kehendak-kehendak Akta Pendaftaran Jurutera 1967 dan telah membayar fee pendaftaran didaftarkan sebagai suatu AMALAN JURUTERA PERUNDING dalam cawangan kejuruteraan yang dinyatakan di atas tertakluk kepada syarat-syarat yang dinyatakan di bawah.

Syarat-syarat:

Perakuan pendaftaran ini akan habis tempoh pada

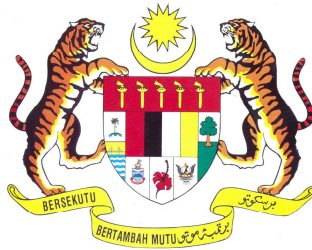
31 DISEMBER 2019



(DATO' Sri Ir. Dr. ROSLAN BIN MD. TAHA)
Yang Dipertua

(Ir. HIZAMUL-DIN BIN AB. RAHMAN)
Pendaftar

Tarikh dikeluarkan: 19 NOVEMBER 2018



KEMENTERIAN KEWANGAN MALAYSIA

SIJIL AKUAN PENDAFTARAN FIRMA PERUNDING

NO SIJIL : J22011747101822993
NO RUJUKAN PENDAFTARAN : 465-02044580
TEMPOH SAH LAKU : 30/10/2017 - 29/10/2020

Bahawa dengan ini diperakui Firma Perunding :

G&P DAMS & WATER SERVICES SDN BHD (875291T)
23-5, JALAN TASIK SELATAN 3,
BANDAR TASIK SELATAN
W.P. KUALA LUMPUR
57000 KUALA LUMPUR
WILAYAH PERSEKUTUAN (K.L), MALAYSIA

Telah berdaftar dengan Kementerian Kewangan Malaysia dalam bidang perkhidmatan perunding di bawah bidang dan sub-bidang seperti di Lampiran A1. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Lampiran B1. Individu yang diberi kuasa oleh firma perunding bagi urusan perolehan Kerajaan adalah seperti berikut :

MARHANI BINTI ROSLI	691031065102	ACCOUNTS & ADMIN. ASSISTANT
BEH HONG LIN	561106025477	MANAGING DIRECTOR
LEONG CHOON KEE	670125086649	ENGINEER
SAFRINA BINTI MOHD AZIZ	821211105354	WATER ENGINEER
LIAW MEI LEE	751014145030	SETIAUSAHA

t.t

DATO' OTHMAN BIN SEMAIL

Bahagian Perolehan Kerajaan
b.p Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 30/10/2017

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

NO SIJIL : J22011747101822993
NO RUJUKAN PENDAFTARAN : 465-02044580
TEMPOH SAH LAKU : 30/10/2017 - 29/10/2020

BIL	TARIKH DAFTAR BIDANG	KOD BIDANG	KETERANGAN	STATUS
1	30/10/2017	330101	KEJURUTERAAN AWAM	Aktif

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 30/10/2017

Certificate of Approval

This is to certify that the Management System of:

G&P Dams & Water Services Sdn. Bhd.
(875291-T)

23-5 Jalan Tasik Selatan 3, Bandar Tasik Selatan, 57000 Kuala Lumpur, Malaysia

has been approved by LRQA to the following standards:

ISO 9001:2015



Basem Obaid - Area Operations Manager

Issued By: Lloyd's Register of Shipping (M) Bhd

Current Issue Date: 8 February 2018
Expiry Date: 16 March 2021
Certificate Identity Number: 10055188

Original Approvals:
ISO 9001 – 17 March 2015

Approval Number(s): ISO 9001 – 0048471

The scope of this approval is applicable to:
Provision of engineering consultancy services including feasibility studies, design and project supervision of dam and water supply.



MS ISO/IEC 17021:2011
QS 12022007 CB 06

Certificate of Approval

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ISO 9001:2015



Basem Obaid - Area Operations Manager

Issued By: Lloyd's Register of Shipping (M) Bhd

for and on behalf of: Lloyd's Register Quality Assurance Limited

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001



G&P DAMS & WATER SERVICES SDN BHD (875291T)

**23-5, JALAN TASIK SELATAN 3,
BANDAR TASIK SELATAN,
57000 KUALA LUMPUR.**

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