

CURRICULUM VITAE



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30 Years experienced on WWTP, WTP, Renewable Energy and Process Equipment Design & Fabrication

Organization :



Vice chairman on ABGI (Asosiasi Biogas Indonesia) 2020



Expert and Supervisory Board on IdWA <http://www.idwa.or.id/profil/>

Employment Report :

Employment

- Period : May 2011 – Current
- Employer : Independent Consultant
- Assesment for WWTP Paper Factory, Kediri, East Java, 2020
- Design for UASB system, Sukabumi, 2020
- Design for Activated Sludge System for Palm Oil Mill Effluent with cap 3 MW, 2020
- Developing PID, Tech Selection, etc for Produced Water Treatment & Injection, Palembang, 2020
- Bioenergy Power Purchase Agreement Review – GIZ, 2020
- BioCNG Market Study for Central and East Kalimantan< GGGI – EBTKE, 2019
- TKDN Team for Biogas and Biomas Power Plant – GIZ – EBTKE , 2019
- Technical Consultant for Re Start Up 3 Biogas Power Plant – EBTKE – GIZ, 2019
- Detail design for sludge sweeper mechanism and fabrication, 4 x 7x45 m, 2019
- Safety Guidline for Pome Biogas Power Plant – GIZ – EBTKE, 2018
- Process and Equipment Design, Corrugated Plate Interceptor 20 m3/hour, PLN Kalimantan, 2018
- Process and Equipment Design, Corrugated Plate Interceptor 10 m3/hour, PLN Aceh, 2018
- Process and Equipment Design, Dissolved Air Flotation 100 m3/hour, Jatim, 2018
- Training on Pome biogas power plant, Rantau Sakti - Riau – EBTKE, 2018
- Feasibility Study, 2.2 MW Pome Biogas Power Plant, Jambi. 2017
- Design review, Klaten Biogas Plant, 2017
- Biogas POME Benchmarking – EBTKE – GIZ Germany – April 2016 - October 2017
- Biogas / Biomass Impact Study EBTKE – GIZ Germany –2017
- Review Water Injection Plant, Produced Water Treatment, ITB - Pertamina, Palembang - 2017
- Basic Design, Produced Water Treatment, ITB_ Pertamina, Kalimantan – 2017
- UASB 3 Phase separator – Dairy Industry – 2017
- Design Evaluation and Retrofitting Vinasse WWTP and UASB Fabrication and UASB 3 Phase Separator, East Java 2015.
- Data Collection, sampling, stakeholder meeting for 6 palm oil mill under PTPN 5, Riaux, Indonesia
- Feasibility study biogas to energy, 90 T/hour pome Makin Group.
- Biogas – WWTP Process Equipment consultant, OleoChemical – Sumatera.
- EPA Task on Biogas generated from municipal WWTP. Tetratex - USA
- Design and Fabrication Dissolved Air Flotation, 50 m3/h.
- Design and Fabrication 3 phase separator for UASB, chemical company. – 2016

Feb 2014 – Feb 2016



Area Sales Manager – AQUA Industrial Water Treatment B.V ,Indonesia Office

Responsibility :

1. to do all tasks and duties for the Company interest and requirement which may be amended by the Company or your Supervisor from time to time.
2. After sales support for the existing project base in Indonesia
3. New business development for the presence of Aqua in Indonesia
4. Bidding preparation for new project
5. Supporting the on going project in coordination with International project manager

May 2008 – Feb 2011



PT. AES AgriVerde Indonesia(AES Climate Solution) Senior Engineer-Waste Water Treatment (SME). South East Asia

Responsibility :

For 9 pome biogas site in Indonesia and several site in Malaysia

1. Plan and implement oil / toxic component management
2. Spearheading forced outage projects related to process problems; define method and work with OMM to revive the sites
3. Define methods to improve normal operational site performance
4. Validate process - related engineering solutions proposed by engineering function (e.g. If process improvement takes place, then need to estimate increase in biogas so that engineering & construction can device adequate infrastructure needed)
5. In charge of operational and regulatory sampling
6. Manage sampling logistics (internal material required, send to lab etc)
7. Evaluate sampling results, indicate abnormality that could be problem
8. Give update on weekly and monthly basis to CM on forced outage process tracking efforts and normal operational sites
9. Liase with OMM manager to have site engineers take samples at given frequency and sampling points
10. Liase with regulatory and BD manager to determine PKO for new projects and sampling points for PDD entering validation

Reporting to Global Engineering Director based in Singapore and S&T Manager based in Melbourne – USA

May 2006 – May 2008

PT. Siemens Indonesia - **Water Technologies**
Sector Water Manager

Responsibility :

1. To develop and maintain a business within Metal, Mining, Pulp and Paper, Chemical, Oil and Gas Sector through regional office in Medan, Balikpapan, Surabaya and Jakarta. 1.) set targets, strategies and budgets, 2.) Technical support where required, training of sector sales personnel, co ordination customers visit and presentation, introduction of new products/ system to major regional customers.
2. Technology include on the BD activities : Odor and Control Group (OC), CheemFeed Group (CF&D), BioClar Group (BC), Engineered Product and System Group (EP&S), Purified Water Group (PW)
3. Develop and co ordinate partners activities with existing and new distributor and agents

Reporting to A&C Director of PT. Siemens Indonesia. About 15 sector sales personnel working/ reporting to me.

- Period : September 2005– May 2006



Employer : Doshion (now Doshion Veolia Water)
Sales and Marketing Manager

- Period : August 2004 – September 2005

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Self Employee : Working as WWTP & WTP Consultant
 • Period : March 1999 – August 2004
 Employer : International Business Network Pty. Ltd. With clients are as follows :



Indonesian Business Dev.
 Manager for PT. Pensa (BP Solar
 Agent) and Ace Toolmakers Pty.
 Ltd

Indonesian Business Dev.
 Manager for IDS Enterprise
 System Pty Ltd.
 Supply Chain Management/ ERP
 Company

Indonesian Marketing Manager
 Water Treatment Company



Indonesia Representative
 Water Resources Company



Indonesia Representative
 Marketing Engineer
 Mining & Industry Process
 Automation Company

Oct. 1997 - Oct. 1998



Indonesia Representative - Process/
 Sales Engineer

Nov. 1994 - Oct 1997



PT. Lurgi Bamag – JJE
 Senior Process Engineering

: Nov. 1990 - Sep 1994



PT. Envitech Perkasa / Head of Process
 Department

Qualification

- Chemical Engineer Graduated from Polytechnic Institute Technology of Bandung, Indonesia, 1990
- Process design, commissioning WTP and WWTP and Biogas Generator and Power Plant
- Engineering WTP and WWTP Equipment and Biogas Generator and Power Plant
- Business development for difference industries/ product; control system, WTP & WWTP equipment (aerator, BFP, etc), software, sugar plant, etc
- CDM – Biogas – Anaerobic Process
- Market review and market penetration for specific technology

Professional Training/Seminar :

- Comparison Study, Central Wastewater Treatment, Renewable Energy, Germany, 2016
- Safety Training, Bureau Veritas, Singapore, April 2010
- First Aider Training, SOS, Jakarta, October 2008
- Product Training for Memcor ®Continuous Micro Filtration for Drinking Water , Singapore, September 2006
- Product Training for Memtek Continuous Micro Filtration for Heavy Metal Removal, Singapore, July 2006
- Product Training for Project Ferret the Health Information System, Sydney, Australia, June, 2003
- Products and Sales Training for IDSe42 Supply Chain Management System, Sydney, Australia, November 2002.
- Technical and Sales Training for HICLEAR package STP, Brisbane, May 2001
- Sales Training for Baker Process Equipment, Singapore, July 1998
- Sales Training for E-Cat (Ultra High Capacity Thickener), EIMCO®, Singapore, February 1998
- Training of Sales Productivity Programme, Mercury International, Singapore, March 1998
- Sales Training for AIS (Advent Integral System) Deep Tank Aeration System, EIMCO®, Singapore, November 1997
- Training Licence for Upflow Anaerobic Sludge Blanket Process (UASB) from PAQUES®, Balk, Netherlands, August. 1996 – <http://www.paques.nl>
- Training Program on Pollution Prevention, ASEAN Environmental Improvement Project - Dana Mitra Lingkungan, Jakarta, June 1994
- Treatment of Hospital Waste, LPUI-RSCM, Jakarta, Indonesia, Sep 1993
- Comparison Study, Central Wastewater Treatment, Yorkshire Water, England, 1992

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- Training Licence for Upflow Anaerobic Sludge Blanket Process (UASB) from **BIOTHANE®**, Delft, Netherlands, Oct. 1992 – <http://www.biothane.com>
- Industrial Waste Water Treatment, ALTUB-GTZ, Bandung, Nov 1991
- Intensive workshop for Industrial WWTP, GTZ-DZWA, Pelabuhan Ratu, Indonesia Sep 1991

Trainer / others

- Trainer for Pome Biogas Power Plant, Tanah Laut, Tanah Grogot and Lamandau each 1 MW cap. GIZ-EBTKE, Aug 2019
- Training on Pome biogas power plant, Rantau Sakti - Riau – EBTKE, 2018
- Presenter, Indonesian Water Association, Yogja, 2016
- Presentation on GIZ – Germany business chamber on Agriculture Renewable Energy, Berlin, July 2015
- Inspector and advisor for several WWTP for Industries around Tapak River, Semarang, Bapedal, September 1992
- Seminar on Wastewater Treatment Plant using UASB, Lampung, PT Envitech Perkasa, August 1993
- Instructor for Wastewater Treatment Technology for Pulp and Paper, Grand Hotel Lembang – Bandung, Bapedal, 13 – 17 June 1993
- In House Training of Wastewater Treatment Plant, Jakarta, PT Cakrawala, 1995
- Instructor for Training of Wastewater Treatment Technology for the Implementation of ISO 14000, Hotel Sukajadi Bandung, LAPI ITB and SUCOFINDO, 5 – 22 April 1999
- Presenter for “ Effluent Treatment for Metal Finishing Industries “, Pusat Pengembangan Politeknik dan Pendidikan Program Diploma, Bandung, 5 July 2002

Publishing Book

- Instalasi Pengolahan Air Limbah, ISBN 979-21-0840-8, Sakti A. Siregar, Penerbit Kanisius, 2005
- Safety Guideline for Palm Oil Mill Effluent Biogas Power Plant, 2018
- Sewage Treatment Plant, 2006, under review.
- Anaerobic Treatment, 2006, under review.

Language

Indonesian, English, Java and Sunda (pasif)

Capabilities on Water & Wastewater Treatment Project

- **Visiting the client for :**
 - introduce the company activity
 - collect the technical and commercial data required to prepare a proposal
 - technical clarification meeting
 - follow up the project
 - treatability test for physical and chemical treatment
- **Prepare the proposal with the results of :**
 - process design
 - sizing of the equipment
 - estimation
 - clarification with the equipment supplier layout
 - process description
 - operating cost
 - schedule
 - complete book of proposal
 - block flow diagram
- **Project implementation with the activities of :**
 - clarification meeting with the client and subcontractors
 - single line piping diagram
 - equipment layout
 - equipment & instrumentation list
 - general arrangement of tank
 - hydraulic profile
- **Start up and Training**
 - prepare the commissioning schedule
 - supervision for dry and wet trial
 - supervision for start up the plant
 - prepare the operating and maintenance manual
 - training the factory staff
 - laboratory test for physical and chemical treatment

Process & Equipment Know-how:

- Anaerobic Treatment – UASB – Fix Bed
- Sequencing Batch Reactor
- Activated Sludge
- Sludge Dewatering – Filter Press & BFP selection
- Assisting Moving Bed
- Physical treatment
- Chemical treatment
- Moving Bed Bio Reactor
- Dissolved Air Flotation – Design & Manufacture
- Sand Filter – Design & Manufacture
- Ion Exchanger – Design & Manufacture
- Oil Separator – Design & Manufacture
- Package STP – Design & Manufacture
- Package WTP – Design & Manufacture
- Pumps & Piping

JOB EXPERIENCES :

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Sugar Plant

1. Kedawoeng Sugar Factory, East Java, Indonesia, 1999
Sugar Refinery - Technical Clarification, managed bid preparation etc. SUDECO, England.
2. 11 Sugar Factories of PTPN XI, East Java, Indonesia, 2000
Process Automation Control, Site visit for identified PAC requirement on system and equipment. MIPAC, Australia.

Solid Waste

1. Caltex, Duri, 1994
Site visit with CH2MHILL for problem identification and possible treatment of Slop Oil
2. Copper Slag Management, 2002
Documentation evaluation of Copper Slag from PT. Smelting after study done by PT. Padmanaba Surabaya.
Copper Slag is stated as Hazardous waste in fact it can be used for blasting, ready mix concrete.

Study or Evaluation

1. Cisirung Wastewater Treatment Plant, Bandung, Indonesia, 2000. Evaluation of process and equipment performance. SUCOFINDO, Bandung
2. Cakung Slaughter House, Jakarta, 2001
Tender Evaluation, technology/process selection, estimation and proposal preparation for Pentaprima Hutama Mandiri, PT
3. WTP Rawa Lumbu and Rawa Tembaga, PDAM Bekasi. Bekasi, Indonesia, 2002.
Technical Evaluation of existing WTP, recalculation for increasing capacity. Suaka Tirta, PT, Jakarta
4. Berau Coal. Berau, Kalimantan, Indonesia, 2006.
Technical Evaluation of existing WTP, Sprint Consultant.
5. Karang Pilang 2000 lps, 2008
6. Bekasi WTP 4000 lps, as team on Beta Pramesti
7. Etc

Effluent Treatment Plant

- around 40 wastewater treatment plant have been designed, installed, commissioned and supervised.

1.	Project Type of industry/product Type of treatments Description of duties	PT. Prembotling, Bogor Indonesia Tea bottling Extended aeration Sizing of fabrication equipment, training of factory staff and commissioning of the plant.
2.	Project Type of industry/product Type of treatments Description of duties	PT. Texmaco Jaya, Karawang Indonesia Textile Aetated lagoon Training of factory staff and commissioning of the plant
3.	Project Type of industry/product Type of treatments Description of duties	PT. Aneka Pangan Dwitama, Cikampek Ind. Sauce and ketchup Physical & chemical, extended aeration, BFP Process design and engineering, training of factory staff and commissioning of the plant
4.	Project Type of industry/product Type of treatments Description of duties	PT. Unilever Indonesia, Cikarang Indonesia Ice cream Physical & chemical, high rate AS, BFP Process design and engineering, training of factory staff and commissioning of the plant.
5.	Project Type of industry/product Type of treatments Description of duties	PT. Trebor Indonesia, Jakarta Indonesia Candy Physical & chemical, AS, Act. carbon Process design and engineering
6.	Project Type of industry/product Type of treatments Description of duties	PT. Cilegon Multi Wahana Service, Cilegon Indonesia. Polyacrilic fibre Physical & chemical, 2 stage AS, BFP Process design and engineering and training of factory staff
7.	Project Type of industry/product Type of treatments Description of duties	PT. Bekasi Indah Industrial Estate, Cikarang Indonesia Industrial estate Physical & chemical, 2 stage AS Process design and engineering
8.	Project Type of industry/product	Design of Centralised WWTP for Tapioca Starch Effluent (BAPEDAL), Pati, Central of Jawa, Indonesia Tapioca starch

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	Type of treatments Description of duties	Physical & chemical, UASB, AS Sampling, process design, preparation of document tender
9.	Project Type of industry/product Type of treatments Description of duties	PT. Pupuk Sriwijaya, Palembang, South Sumatera, Indonesia Fertiliser Corrugated Plate Separator Sales, clarification and check of oil separation equipment
10.	Project Type of industry/product Type of treatments Description of duties	PT. Sanmaru Ancol, Jakarta Indonesia Noodles Physical & chemical, extended aeration Sales, Process design and engineering, commissioning and training of factory staff
11.	Project Type of industry/product Type of treatments Description of duties	PT. Jaya Kertas, Mojokerto, East Jawa, Indonesia Paper Physical & chemical, extended aeration, BFP Process design of WWTP
12.	Project Type of industry/product Type of treatments Description of duties	PT. Eureka Aba, Mojokerto, East Jawa, Indonesia Pulp and Paper Physical & chemical treatment Sales, Site evaluation and process design for pretreatment and UASB of WWTP
13.	Project Type of industry/product Type of treatments Description of duties	PT. Coca Cola Bottling Co., Jakarta, Indonesia Coca cola Sequencing Batch Reactor Determination the problems of existing ICEAS WWTP and make a planning for re commissioning of the plant
14.	Project Type of industry/product Type of treatments Description of duties	PT. Gold Star Astra, Cikupa -Tangerang, Indonesia Plating pH adjustment, precipitation, sludge treatment Process design of WWTP
15.	Project Type of industry/product Type of treatments Description of duties	PT. Pembangunan Jaya (Putri Duyung Cottage), Jakarta Indonesia Sewage Extended Aeration Determination the problems of existing STP and make a planning for recommissioning of the plant. Designing Corrugated Plate Interceptor
16.	Project Type of industry/product Type of treatments Description of duties	PT. Garuda Metal, Tangerang Indonesia Plating pH adjustment, precipitation Process design of WWTP
17.	Project Type of industry/product Type of treatments Description of duties	KMI Methanol, Bontang, East Kalimantan, Indonesia Methanol Cricket Filter, Cation, Degasifier and Mixed Bed Estimation of Water Treatment Plant
18.	Project Type of industry/product Type of treatments Description of duties	JJ - Hartmann, Malaysia Paper Physical & chemical, SBR, FP Checking, Estimation, Supervise the installation and commissioning of SBR WWTP
19.	Project Type of industry/product Type of treatments Description of duties	PT. Century Textile Textile Anaerobic Treatment Process Design, Estimation and Instruction Manual Preparation
20.	Project Type of industry/product Type of treatments Description of duties	PT. Sarimorawa Pulp and Paper Physical, Chemical and Activated Sludge Process Design and Estimation
21.	Project Type of industry/product Type of treatments Description of duties	Petrochemical Plant, Kuantan, Malaysia Polymer Physical & chemical, Fixed Bed Anaerobic Reactor, BFP Checking and Estimation of anaerobic WWTP Treatment Plant. Design for Anaerobic Reactor
22.	Project Type of industry/product Type of treatments Description of duties	Sucofindo Laboratory, Surabaya, Indonesia General Laboratory Physical & chemical, Sludge Treatment Process Design, Tendering, Supervision and Training + Commissioning
23.	Project Type of industry/product Type of treatments Description of duties	Pelangi Era Dua Satu, Tangerang, Indonesia Textile Physical & chemical, AS, FP Process Design, Tendering, Supervision and Training + Commissioning
24.	Project Type of industry/product Type of treatments Description of duties	Sing Long Brothers Textile Physical & chemical, AS, FP Process Design, Tendering, Supervision and Training + Commissioning
25.	Project Type of industry/product Type of treatments Description of duties	Trans Pacific Petrochemical Indotama Petrochemical O/W Separator, DAF, AS, BFP Installation Supervision and Evaluation of existing design, Pre commissioning activities
26.	Project Type of industry/product Type of treatments Description of duties	9 Sites, Palm Oil Mill Effluent Palm oil mill O/W Separator, anaerobic lagoon Evaluation of existing design and monitoring, etc.

Business Development Activity

Have experienced in the last 7 years on business development for several services and engineering product from difference country such as :

- Equipment for water, wastewater treatment plant, flue gas de sulphurization, recausticizing for Municipal, Power, Mining, Pulp & Paper Industry from USA
- Water Management Design from Australia
- Sugar Processes and Plant from UK
- Health Information System from Australia
- Process & Automation Control System for Mining and Industry from Australia
- Package water treatment system from Australia
- Automotive Distribution System from Australia
- Solar Power System from Australia

CDM PROJECT

POME anaerobic digester under CDM project scheme : 9 sites in Indonesia

Methodology AMS IIIH v 5 – 9 Methane recovery in wastewater treatment:

- #1 PT. Permata Hijau Sawit <http://cdm.unfccc.int/UserManagement/FileStorage/SKRD2ZTU51HB96L78OA0CGEQ3VPW4X>
- #2 PT. Sumbertama Nusapertiwi <http://cdm.unfccc.int/UserManagement/FileStorage/LXNI1BFKYPT4AMS9EVC5DOQWZ23HG7>
- #3 PT. Tolan Tiga -Perlabian <http://cdm.unfccc.int/UserManagement/FileStorage/WQ8D03S6UJPTVBHA09G1YZECINF5X>
- #4 PT. Bakrie Pasaman <http://cdm.unfccc.int/UserManagement/FileStorage/E6QI0WD43SVR7FLKZ1BXUJOA985THC>
- #5 PT. Tolan Tiga - Bukit Maradja Palm Oil Mills
<http://cdm.unfccc.int/UserManagement/FileStorage/K4XZL5D672N3WVREIUFGC8T9AHYBM>
- #6 PT. Sago Nauli <http://cdm.unfccc.int/UserManagement/FileStorage/W0EZFP7RKM64SNXAYQ9J58CUB3I2>
- #7 PT. Sisirau <http://cdm.unfccc.int/UserManagement/FileStorage/LKA6NVEBX9U1437R2ZDFPI5CQOGY8>
- #8 PT Perkebunan Milano <http://cdm.unfccc.int/UserManagement/FileStorage/S0TI1BJVFR4UACG37NZMPXK2HW89L6>
- #9 PT Victorindo Alam Lestari
- #10 PTPN 5, six palm oil mill, CDM Assestment, etc - CAMCO

Current Activity 2019

- Assisting for Re-Startup 3 (three) Biogas Power Plant - Kalimantan