

COMPANY PROFILE



VORTEX

WWW.VORTEX.SG

At the forefront is Vortex Engineering, where innovation meets excellence, providing top-tier engineering and construction services. Complementing this expertise, Vortex Logistics ensures seamless supply chain solutions and logistics rental services, ensuring your business operates with efficiency and precision. Furthermore, our commitment to creating vibrant and sustainable environments is embodied by Wizclean Services. For pristine and hygienic spaces, look no further, where we specialize in industrial & commercial cleaning, pest control, and landscaping services.

Together, the Vortex family is your one-stop destination for integrated solutions, designed to elevate your projects and spaces to new heights. Discover the power of synergy with Vortex, where quality, reliability, and customer satisfaction converge.



About Us

Our Vision

To be a trusted preeminent provider and business partner, recognized for transformative solutions and exceptional service in our domain."

Our Mission

To authentically embody our vision of redefining excellence across diverse sectors by consistently innovating, fostering sustainability, and exceeding client expectations. We are committed to refining values within our organization, cultivating a culture of continuous improvement and integrity.

Core Values



Integrity

We are honest, transparent and committed to doing what's best for our customers and our company. We openly collaborate in pursuit of the truth. We have no tolerance for politics, hidden agendas or passive-aggressive behavior.



Excellence

Excellence is not just a value; it's our guiding principle. We are committed to delivering exceptional quality, innovation, and service in everything we do. Our dedication to excellence sets us apart from competitors and drives us to consistently exceed expectations.



Safety

Safety is not just a commitment; it's a fundamental value woven into the fabric of our organization. We prioritize the well-being of our team, clients, and partners, ensuring a secure and protected environment through stringent safety measures and practices.



Training & Development

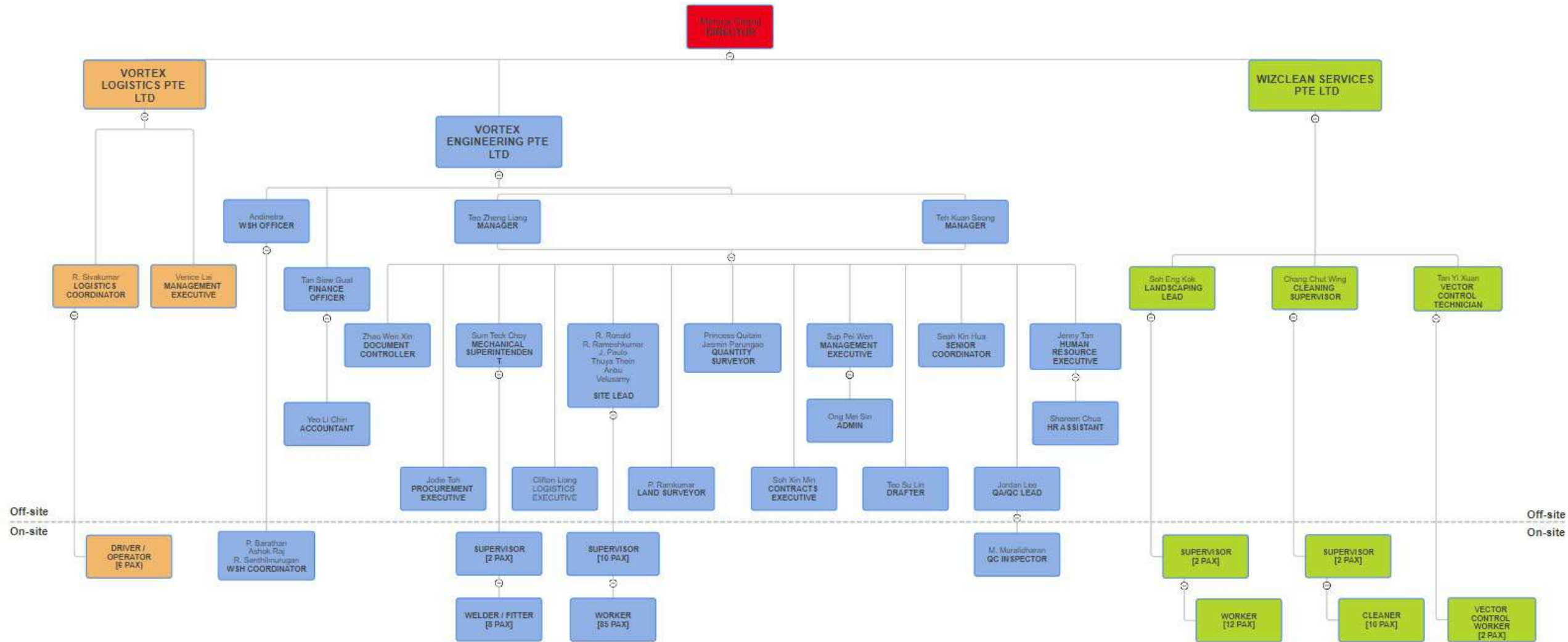
We recognize that continuous investment in training and development are essential for improving our performance and enhance the services provided to our clients. As such, we send our employees for various courses to improve their skills and work quality, helping them to path their professional growth and career aspirations.



Teamwork

We recognize our primary asset is people. To be successful, Vortex must be a rewarding place to work. We provide opportunity and encouragement to help our people reach their potential. We work with our clients as a team. Mutual respect provides the foundation for our success.

Organisation Chart



VORTEX ENGINEERING PTE LTD

UEN: 20141358N

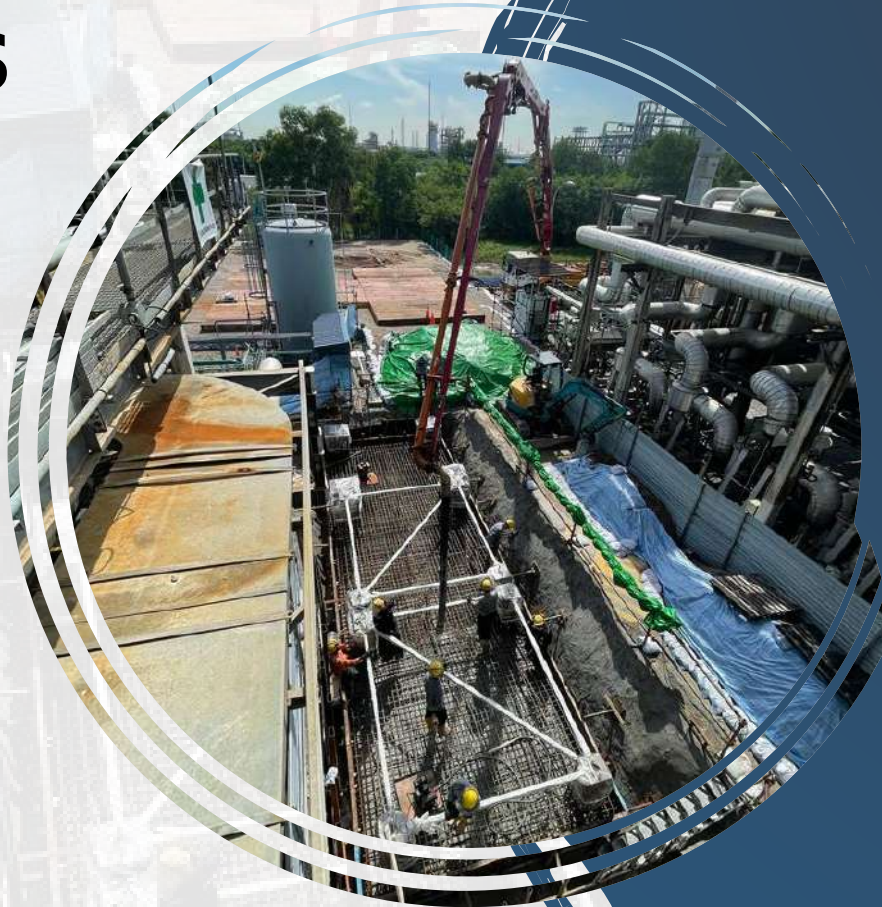




Core Business

Vortex Engineering has earned recognition for undertaking reputable projects, fostering innovation, collaboration, forward-thinking and making a difference for their clients, employees and community.

With a workforce of over 120 employees, the heart of our organisation continues to expand organically to offer clients reliable execution, cost effective, and dynamic engineering, construction & maintenance solutions.



Plant & Civil Maintenance
Mechanical/Piping Work
Marine Construction
Plant Construction
Civil Engineering
Concrete Repair
Painting
Fireproofing
Waterproofing
Shop Fabrication
Plumbing & Electrical
Additions & Alterations
Hydro/Pressure Jetting
Commercial Renovation
Building Facilities Management
Linabond Application



EQUIPMENT & MACHINERY

- 4 Excavator
- 5 Lorry Crane
- 2 Dump Truck
- 5 10ft / 14ft Lorry
- 4 Generator
- 6 Welding Genset
- 2 Sandblasting Equipment
- 2 Hydrojet Machine
- 3 Electrical Pipe Clearing Machine
- 2 Pressure Grouting Machine
- 2 Fireproofing Machines
- 2 Forklifts
- & others

MANPOWER (120 pax)

- Managers
- Office Executives
- QA/QCs
- Engineers
- Quantity Surveyors
- Coordinators
- Operators
- Supervisors /Foremen
- Surveyors
- Organic workers

FACILITY

- 1 Head Office
- 1 Site Office
- 1 Open Storage Yard
- 2 Fab Shops

Major Plant Owner

- ExxonMobil Asia Pacific Pte Ltd
- Petrochemical Corporation Of Singapore
- Evonik Oil Additives Asia Pacific Pte Ltd
- GlaxoSmithKline Pte Ltd
- Sumitomo Chemical Asia Pte Ltd
- Toagosei Singapore Pte Ltd
- Singapore Methyl Methacrylate Pte Ltd
- Stepan Asia Pte Ltd
- Advario Singapore Limited
- Sembcorp Industries Ltd – SUT
- Denka Singapore Pte Ltd
- Denka Advantech Pte Ltd
- ChampionX SG Service Pte. Ltd.
- Broadcom Singapore Pte Ltd
- Neste Singapore Pte. Ltd.
- Veolia ES Singapore Industrial Pte Ltd
- SI Group – Singapore Pte Ltd
- Bertschi Singapore Pte Ltd
- Solvay Specialty Chemicals Asia Pacific Pte Ltd
- Novabay Pte Ltd

Major Contractors

- PEC Ltd
- JACOBS Engineering Pte Ltd
- Dialog Engineering Pte Ltd
- Dialog Plant Services Pte Ltd
- Rotary IMC Pte Ltd
- Rotary RMC Pte Ltd
- Rotary Engineering Pte Ltd
- Fortis Construction Pte Ltd
- Singapore Takada Industries Pte Ltd
- Sankyu (Singapore) Pte Ltd
- NX Global Engineering Pte Ltd
- Asia Project Engineering Private Limited
- Wah Loon Engineering Pte Ltd
- Addcel Engineering Pte Ltd
- Sinohydro Corporation Limited (Singapore Branch)
- Penta Ocean Construction Company Limited
- Kellington Engineering (S) Pte Ltd



Amine Regeneration Unit Stripper Tower Project

ExxonMobil,
Jurong Island

The project required the crew to be operationally functional while optimizing the schedule constrain to complete all earthwork in a live plant. The arduous journey of the project was further escalated when the issue of high underground water pressure brought forward relevant challenges to complete the civil scope without compromising technical specifications of the concrete. The team was able to overcome the testing requisites and complete the project with all relevant earth, piling and civil scope with unparallel quality.



Ammonia Truck Loading Facilities

Vopak Banyan Terminal

The project showcased the expertise of our work crew for earth work within the process plant to allow the design team to have a more holistic understanding of the underground facilities.

The piling team allowed the design team to have the confidence of proposing the construction coordinates within the proximity of the existing structure and establishment by reducing the pile length and yet being able to achieve the specific loading requirements.



MJ4 Jetty Slab Strengthening

Oiltanking Terminal

Vortex team rose to the challenge of enabling an existing jetty to withstand an operational loading arm with a significant increase of MLA size based on the original design. Our marine team had to perform the reinforcement work for critical coring, installation of studs and anchors and marine grouting under constrained conditions. The final quality reflected our team's outstanding workmanship and in-depth knowledge of such critical marine work.



Underground HDPE Firewater Line Repair Work

ExxonMobil, SAR2

Vortex's plant maintenance team was put to a test during an actual emergency when the safety of the plant's operational readiness was compromised. During a leakage of the underground Firewater Line, our team reacted speedily by obtaining the necessary endorsements for documentation of work to be carried out in confined spaces and accurately enforcing the methodology of performing civil works without aggravating the existing damaged condition.



Civil Work for SLU/SLR

Linde Gas Singapore,
Jurong Island

With a multi-discipline nature of ongoing work during the shut-down period, interfacing work collaboration was necessary for the team to achieve an effective schedule management. The team was simultaneously involved in the brown-filed scope of works which involved enhancement of the existing mechanical capabilities.

Injection Grouting for Existing Tank

SMUF, SUT,
Jurong Island

Assisting our client in revamping an existing concrete tank with leakages that were jeopardizing the structural integrity of the walls, our site team carry out feasibility study and source for suitable materials to effectively cure the damages. The tank was salvaged and reinstated through injection grouting and coring/patching works, quickly launching back into normal operational mode within 2 weeks. The comprehensive repair methodology was initially challenging due to its complexity.



Civil Work for SGA Project

SGA, Sunview Way

The scope of work within the SGA project was not only limited to civil work and earthwork, but also to facilitate the site movements and provide effective planning. The project requirements for the quality of civil work was much more advanced in comparison with the usual CP and SS, triggering our technical team to establish new QC procedures to facilitate the punctual provision of civil construction materials and to further educate the team on the respective applications.



Civil Work for Turnaround

Neste Oil, Tuas

Vortex is involved in the civil work for Neste Oil Turnaround for Bleaching Unit Revamp for VOC (AE106) and NexBTL Production Capacity Increase (AE135), our scope comprised of, but are not limited to, construction and maintenance of various foundations, pipe support, pedestals, cable trenches, manholes and catch basins. our team proactively showcased our high technical sophistication and delivered the successful completion of our works punctually.



Installation of 16" Pipeline & 12" Jet Fuel Conversion Project

Tankstore, Pulau Busing

Our scope of works includes the civil works for the additional 16" Pipeline such as coring, construction of box culverts, pipe sleepers, pig launcher pads, roadworks and retaining walls.

The civil works for the 12" Jet Fuel Line Conversion Project which involves the connection of a new white product pipeline from Shell Bukom to Tankstore Pulau Busing. The assorted scope of work was not limited to construction of new structures but also involved the maintenance and enhancement of existing foundations and slabs.



Civil Works for Evolutive Facility

Sanofi Manufacturing,
Tuas Ave 5

Vortex was engaged to support on the excavation of open-cut trenches for the assembling and laying of pipes for the plant's underground services. The water pipelines and process pipes were laid in accordance with the required gradient and properly backfilled and compacted upon completion of the work. Proper planning and communication are the key factors to enable smooth schedule progress despite challenges due to site interfacing issue from various stakeholders.



A&A Works for New Compactor to Existing 2 Storey Building

Broadcom,
North Coast Drive

The team managed to tackle customized steel structural work which encompasses the crucial understanding of the precise proximity to ongoing operations of our client and performing the related civil works to furnish the reinforcement to the extension. The team provided an effective solution for our client by accommodating their usual operations during the course of the extension without disruption.



Dismantling/ Delivery of Fibreglass Tanks TK-312 & 315

Chemical Industries
(Far East) Limited,
Jurong Island

Vortex assisted our client with shifting their tanks from Singapore's mainland to Jurong Island. We resolved their issue competently through the effective planning and execution of the dismantling of the tank with minimum isolation of members, transporting of the tank in collaboration with LTA and the assembling of the tank within a single critical lift.



Construction of Electrical Draw Pits and Duct Bank

Sembcorp - SMUF,
Jurong Island

As part of acquiring an existing utilities facility, our major client entrusted Vortex the design and construction of the security aspect of the plant which demarcated the division of operational controls for the new unit. The team strived to achieve a design and build that was fundamentally operational and not jeopardising the security integrity of the new fencing and gate system. The project also encompassed the tie-in of electrical and data system to the main control house.



Enabling Works for Butadiene Unit Project

SAR2 ExxonMobil,
Jurong Island

As part of the early works for the Butadiene Unit Project, our team supported the geotechnical works and ground engineering to allow our client to have a better understanding of the current ground conditions, which allows the engineering team to be able to design the foundation based upon the loading calibre. The range of work not limiting to boring, cone penetration and trail trenching works projected an influx to the manpower team.



Civil Works for Underground Piping @ UMC

United Microelectronics Corporation,
Pasir Ris Industrial Drive 1

Vortex has the opportunity to be involved in the construction of the renowned \$6.8 billion United Microelectronics Corporation (UMC) wafer fab facility in Singapore. We took up the geotechnical works involving open-cut trenches for the assembling and laying of sanitary pipe lines in accordance to the required gradient. The pipe laying works were executed efficiently with minimal disturbance to the existing works.



SIG 2, 4 DBN Project

SI Group,
Banyan Ave, Jurong
Island

Vortex is entrusted to carry out the civil works which comprises of micro piling, ERSS and construction of the RC foundation and anchor bolts for the 7-storey skid module to be placed on by heavy lifting. We managed well and overcame the challenges of design and construct crane pad within limited timeframe and performing fireproofing to the structural member a congested skid module.



Construction of Firewalls and Drain Covers

Petrochemical Corporation
Of Singapore (Private)
Limited (PCS),
Ayer Merbau, Jurong Island

Our PCS in-house team is involved in the construction and extension of a firewall system to enhance the safety and security of the plant operations. The firewall is a safe wall to shield firefighting or operation personnel to access to the firewater outlet in event of fire accident. The project includes the design and engineering of the firewall, and the construction and installation of the firewall system. The team carrying out this project demonstrated their commitment to safety and their ability to produce a high-quality end product.

Deep Tunnel Sewerage System Phase 2 – Contract T08

Public Utilities Board (PUB),
Jurong / Tuas District,

The Deep Tunnel Sewerage System (DTSS) is a monumental initiative undertaken by Singapore's Public Utilities Board (PUB) to revolutionize wastewater management. The awarded contract T-08 is the segment of the tunnel construction including undersea parts (total length 3.5km), connecting to the water reclamation plants to be newly constructed in Tuas Basin. The tunnel with a length of approximately 9.9km will be built by means of 4 tunnel boring machines. Vortex is awarded the demolition and reinstatement works of tunnel shafts.

Sandblasting & Linabond Application @ Tuas Water Reclamation Plant

PUB TWRP, Tuas Nexus Drive

The Tuas Water Reclamation Plant is designed to address the growing demand for water reclamation and treatment. Vortex undertakes the surface preparation (sandblasting) of the concrete water storage units – estimated 180,000m² and the application of linabond. The Linabond Structural Polymer System is a comprehensive repair method that simultaneously repairs and lines the corroded structure with a reinforcing plastic membrane.

Serial No: C2306023

Building and Construction Authority

CERTIFICATE OF LICENCE


This is to certify that

VORTEX ENGINEERING PTE. LTD.

(Unique Entity Number / ACRA Registration Number : 201413458N)
is licensed as a

General Builder Class 1
(10 Jun 2023 to 10 Jun 2026)

under Part VA of the Building Control Act and Building Control
(Licensing of Builders) Regulations 2008


Commissioner of Building Control
Singapore

Date: 30 May 2023

Serial No: C2302014

Building and Construction Authority

CERTIFICATE OF LICENCE


This is to certify that

VORTEX ENGINEERING PTE. LTD.

(Unique Entity Number / ACRA Registration Number : 201413458N)
is licensed as a

Specialist Builder (Structural Steelwork)
(21 Jan 2022 to 21 Jan 2025)

under Part VA of the Building Control Act and Building Control
(Licensing of Builders) Regulations 2008


Commissioner of Building Control
Singapore

Date: 14 Feb 2023

ASPRI
Connect · Engage · Grow
towards **A Sustainable Process Industry**

ASSOCIATION OF PROCESS INDUSTRY
(Formerly Known As Process Industry Contractors' Association Singapore)
(Registered with the Registry of Societies since 1997)

THIS CERTIFIES THAT

VORTEX ENGINEERING PTE LTD

has fulfilled the requirements set out by the Constitution
and was admitted as a Corporate Member
by the Membership and General Affairs Committee


President
Danny Chua

Date of Admission: **1 January 2017**



Chairman
Membership and General Affairs Committee
Grace Chia

Membership No: **C0900/2017**

UEN S9758046G





 **Petrochemical Complex Contractors Association**
No. 100 Ayer Marbau Road, Singapore 628277 Tel: 6867 2756 Fax: 6867 2755
Email: ato.administrator@pcs-chem.com.sg • poc.custodian@pcs-chem.com.sg


CERTIFICATE OF MEMBERSHIP

VORTEX ENGINEERING PRIVATE LIMITED

is hereby recognised as a member of the
Petrochemical Complex Contractors Association

REGISTRY OF SOCIETY ROS NO. 0214/2001/TAP
EUN. T01SS0155J


IVAN LEE APOSTOL
PRESIDENT


NAY LIN OO
SECRETARY


SUM KIN FOCK
TREASURER



Certificates – ISO 9001 / 14001 / 45001

 **CERTIFICATE**
No. SCS 101991QI

certifies that:

Vortex Engineering Pte Ltd
10 Buroh Street #08-03 West Connect Building Singapore 627564


operates a management system that has been assessed as conforming to:

ISO 9001 : 2015

for the scope of activities:
Provision of construction and engineering services for process and industrial.

Issue date: **05 June 2023** Dave CHENG LOON Managing Director
Valid until: **04 June 2026** (Subject to adherence to the agreed ongoing programme, successful endorsement of certification following each audit and compliance with the terms and conditions of certification.)
Original date of certification: **05 June 2017**

  SOCOTEC Certification Singapore Pte Ltd
60 Albert Street #13-03, DD Albert Complex
SINGAPORE 189969
www.socotec-certification-international.sg

 **CERTIFICATE**
No. SCS 101991EI

certifies that:

Vortex Engineering Pte Ltd
10 Buroh Street #08-03 West Connect Building Singapore 627564

operates a management system that has been assessed as conforming to:

ISO 14001 : 2015

for the scope of activities:
Provision of construction and engineering services for process and industrial.

Issue date: **01 June 2023** Dave CHENG LOON Managing Director
Valid until: **31 May 2026** (Subject to adherence to the agreed ongoing programme, successful endorsement of certification following each audit and compliance with the terms and conditions of certification.)
Original date of certification: **01 June 2017**

  SOCOTEC Certification Singapore Pte Ltd
60 Albert Street #13-03, DD Albert Complex
SINGAPORE 189969
www.socotec-certification-international.sg

 **CERTIFICATE**
No. SCS 101991OI

certifies that:

Vortex Engineering Pte Ltd
10 Buroh Street #08-03 West Connect Building Singapore 627564

operates a management system that has been assessed as conforming to:

ISO 45001 : 2018

for the scope of activities:
Provision of construction and engineering services for process and industrial.

Issue date: **02 June 2023** Dave CHENG LOON Managing Director
Valid until: **01 June 2026** (Subject to adherence to the agreed ongoing programme, successful endorsement of certification following each audit and compliance with the terms and conditions of certification.)
Original date of certification: **02 June 2017**

  SOCOTEC Certification Singapore Pte Ltd
60 Albert Street #13-03, DD Albert Complex
SINGAPORE 189969
www.socotec-certification-international.sg



Rospa Award – HSE





Certificates / Awards



Certificates / Awards



HSE Campaign & Recognition

Vortex places a strong emphasis on health, safety, and the environment (HSE) in all of its operations. The company implements strict HSE protocols and procedures to protect its employees and the environment, including regular safety training and assessments and utilizing environmentally-friendly practices. Vortex is dedicated to reducing its impact on the environment and promoting sustainability.



VORTEX ENGINEERING
CONTRACTORS SAFETY SET
3RD MARCH
PETROCHEMICAL CORPORATION

Corporate Social Responsibility

As an organization that believes in giving back to the community, Vortex has been active in lending its support to charities, organizations and causes to help the needy and less privileged in society. Over the years, we have been actively supporting seven charitable organizations through volunteering and in-kind donations. We will continue to organize volunteering work for our staff to stay engaged with the less-privileged community.





Corporate Social Responsibility



Besides being actively involved in local volunteering work, we have also worked with our migrant employees to organize overseas community involvement programmes - donations to the local orphanage, preparation of food for the needy and to give back to their own native communities in Tiruchirappalli, India. We will continue to organize volunteering work for our staff to stay engaged with the less-privileged community.





VORTEX LOGISTICS PTE LTD

UEN: 201930279G

WIZCLEAN SERVICES PTE LTD

UEN: 201736509M





Refining Values, Redefining Excellence

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