



LIMPAHAN ENGINEERING

PRECISION POWERING PROGRESS

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LIMPAHAN ENGINEERING SDN. BHD.
(1371198-M)

Lot 5087-A PKINK, Jalan Padang Tembak,
Kawasan Perindustrian 2 Pengkalan Chepa,
16100 KOTA BHARU.

Liaison Office:

D-3A-05, Block D, Oasis Square,
Jalan PJU 1A/5, Ara Damansara,
47310 PETALING JAYA.

Maintenance, Repair and Overhaul (MRO):

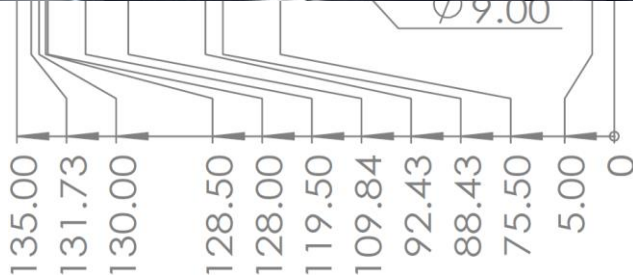
Tok Bali Supply Base (TBSB),
Jalan Tok Bali,
16700 PASIR PUTEH

www.limpahan.com

PRECISION POWERING PROGRESS

“Precision is the art of turning challenges into the exquisite, where every movement is a masterpiece”

Kamarul Hafiz,
MD/CEO



Welcome to
LIMPAHAN.
You'll be in
GOOD HANDS

LIMPAHAN In Brief

We are a group of highly passionate people who put solving your pain points as our priorities. We have demonstrated our persistence, building on our strengths and determination to be a key contributor in the high precision machining, metal fabrication, Maintenance, Repair and Overhaul (MRO) and Tools, Dies and Moulds (TDM).

We have been active servicing the energy industry – both in the traditional oil and gas offshore operation and the new sustainable green Hydrogen generation. We have also served the general manufacturing industry in their MRO and TDM needs.

At Limpahan, we believe that **precision** in engineering execution **powers progress.**



OUR CORE CAPABILITIES

ENGINEERING DESIGN,
PRECISION MACHINING
FABRICATION,
MAINTENANCE,
REPAIR,
OVERHAUL (MRO)
TOOLS,
DIES,
MOULDS (TDM)

Journey of a THOUSAND MILES...

Limpahan Engineering was incorporated in June 2020, in the middle of the COVID-19 Pandemic Movement Control Order (MCO), when our first CNC machine was delivered to site in Pengkalan Chepa.

We have never looked back ever since. We marched through the unprecedented period and built our competence, capability, capacity and trustworthiness with every delivery to our customers.

We are in the final steps to be certified to the ISO Trinity – Quality Management System ISO9001, Occupational Health and Safety Management System ISO45001 and Environmental Management System ISO14001 by October 2023. We are also in good progress to be certified to Aerospace Quality Management System AS9100D by December 2023.

..Starts with a single STEP.

Our presence:



Head Office & Operation:

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NILAI LIMPAPAN

OUR CORPORATE VALUES

SAFETY

We keep our stakeholders safe.
Our loved ones shall have the
peace of mind at all times.
Everybody Returns Home Safely.



INTEGRITY

We execute our duties with utmost
integrity. We do the right thing even
when nobody's watching.
There is only Black or White.



INNOVATION

We explore new ways of succeeding
together with our stakeholders
without the fear of failure.
Sky is the limit.



QUALITY

We aspire to consistently meet all
stakeholders' expectations. Our People
employ the best Process & Technology.
Do It Right The First Time, All The Time.



AGILITY

We are responsive to our
stakeholders' needs. We push
boundaries. There is no
constraint to what we can do.
Everything is Possible



NILAI LIMPAPAN



**“Bijok dan Biso. The
best words to
describe our PEOPLE.
Our most important
asset..”**

**Akalili,
Human Resources**

PEOPLE

We develop and empower our people.
We ensure alignment to a unified
vision. We grow with our diversity.
Our People are Our Greatest Assets.



Picture shown is our staff during Daily HSE Toolbox Briefing

LEADERSHIP
KNOW THE WAY
GO THE WAY
SHOW THE WAY

Dato' Naza Haron

Chairman

Key Strategist & Pathfinder

Vision & Mission



Kamarul Hafiz

Managing Director

Technology Frontier

Financing & Growth Strategy

Business Development

Decision-maker



Sukri

Engineering & Production Director

Key Technical Expert

Engineering & Production Management

Product Development

Equipment Productive Maintenance

Facility Management



Hakimi

Corporate Services Director

Key QHSE Expert

Risk & Compliance Management

Process Development

Business Improvement

Digitalization Management



KEY ENABLERS

MAKE EVERYTHING POSSIBLE



OUR YOUNGS

Afifah

Finance Assistant Manager

Zulhilmi

Design / Mill Lead

Zubaidi

Senior CNC Machinist

Hilmi

CNC Machinist, Maintenance & Tooling Management

Hishamuddin

Fabrication & MRO Specialist

Aisyah

Procurement Executive

Arfan

Process & Quality Assurance

Syabil

Quality Control Officer

Syahmi

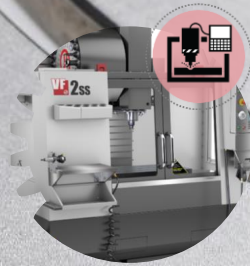
HSE Executive

Akalili

Human Resources Executive

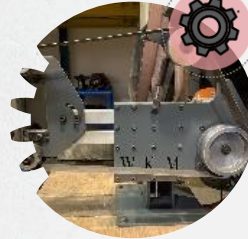
Our Core Competencies

We offer bespoke engineering solution to our customers in the provision of design, development, prototyping and volume processing of high precision mechanical components and spare parts.



High Precision Machining

Our state-of-the art CNC machining centers are operated by highly competent machinists capable of producing components with +/-10 microns precision.



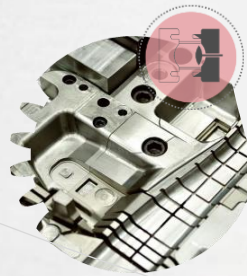
Maintenance, Repair & Overhaul

We are capable of executing in-situ maintenance, repair and overhaul work in the comfort of our customers' facility. For offshore Oil and Gas, we could run threading and capping of tubulars.



Industrial Fabrication & Facility Decommissioning

We could fabricate complex mechanical structures and reverse it – i.e. cutting and disassemble them into pieces for decommissioning of facilities and structures.

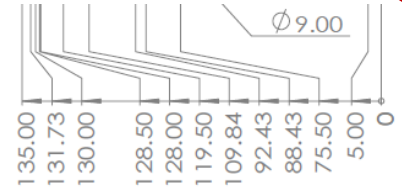


Tools, Dies and Moulds

We could design, develop and fabricate high precision Tools, Dies and Moulds for stamping, blanking, injection molding and Hydroforming operations.

High Precision Machining

Our state-of-the-art CNC machining and turning centers are operated by highly competent machinists capable of producing components with +/-10 microns precision.



Offshore Oil & Gas Facilities Parts

Reverse engineering on heavy and rare mechanical components and EOL spare parts for Hydraulic Workover Units (HWU) and other offshore equipment.



Manufacturing/Factory Jigs & Fixtures

Elevate Perfection - Our Craftsmanship meets innovation as we engineer bespoke fixtures and jigs, optimizing your manufacturing excellence.



Aerospace & Aviation Components

Flight Excellence - Our Crafting precision ensures sky-high quality and soaring performance in every component.



Green Hydrogen Generator

Hydrogen Electrolyser Anodes and Cathodes

We are the pioneer of high-precision machining of PEM Hydrogen Electrolyser Anodes and Cathodes with complicated features on Titanium Grade 2. We are bound by NDAs, so that's all you could know for now!

Hydrogen Fuel Cell Bipolar Plates

Our aggressive Research and Development with a premier varsity in Malaysia will enable us to produce our own Hydrogen Fuel Cell in the near future.



Maintenance, Repair and Overhaul (MRO)

Reverse engineering on heavy and rare mechanical components and EOL spare parts for Hydraulic Workover Units (HWU) and other offshore equipment.

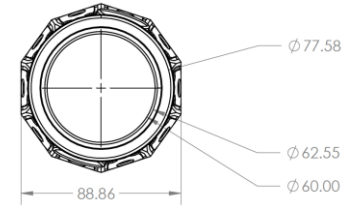
Tubulars Preparations & Services

Tubulars Threading

We thread tubulars – casings, tubings, connectors, conductors, and pipe from 1" to 40". Our process and services meet the related codes required by OCTG governance.

Tubular Capping & Coating

We protect your tubulars and their threads by capping them. We protect the inner and outer surface by coating to any codes you require.



Spare Parts Fabrication

Cannot find the end-of-life spare parts? We'll reverse engineer your existing spare parts and reproduce you the exact replacement.



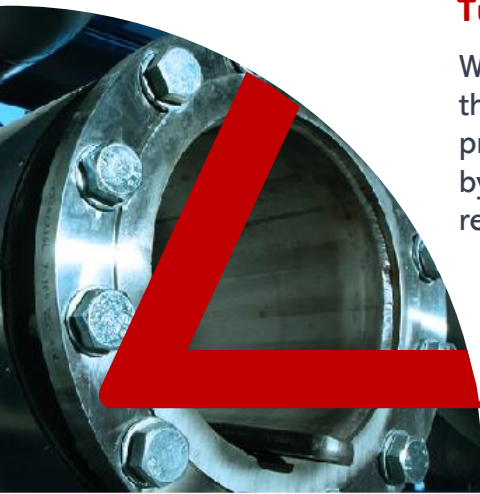
Spare Parts Regeneration

With additive manufacturing, we could find ways to regenerate your worn-out parts and save you and the environment all in one go.



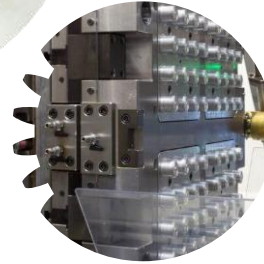
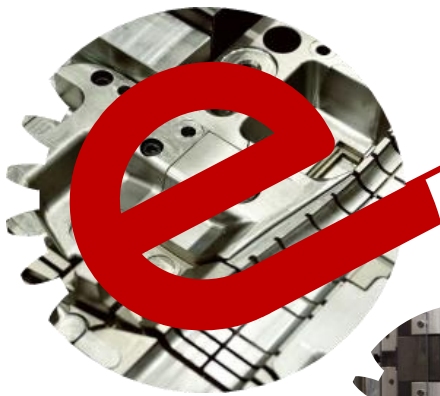
Failure Analysis

We disassemble your equipment, run failure analysis and prescribe corrections and corrective actions.



Tools, Dies and Moulds (TDM)

Whether you are in need of a stamping tool, a blanking die or an injection moulding mould, we could design, develop and fabricate one for you. In record time.



Injection Moulding Moulds

Crafting Perfection: Transform Your Designs into Reality with Our Expert Injection Molding Molds. Unparalleled Quality and Precision Redefined



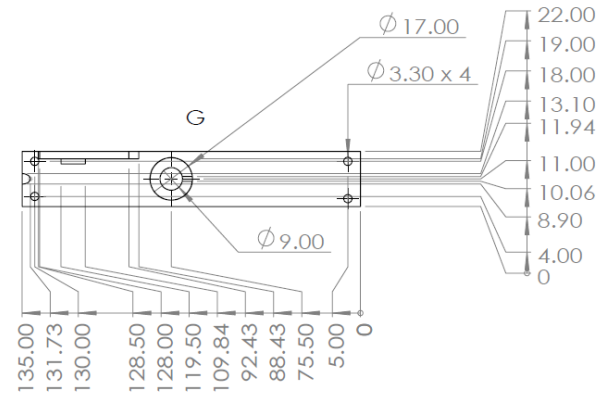
Stamping and Blanking Tools & Dies

Tools & Dies Fabrication

Precision at Every Press: Elevate Your Production with Our Exceptional Stamping Die Expertise. Quality Craftsmanship Redefining Industry Standards

Tools and Inserts Maintenance

Empower Your Precision: Unleash Efficiency and Durability with Our Superior Stamping Die Tool Inserts. Elevate Your Output with Confidence



Hydroform Tools & Dies

Shaping Innovation: Harness the Power of Hydroforming with Our Exceptional Molds. Achieve Complex Designs with Precision, Durability, and Flawless Execution

Industrial Fabrication & Facility Decommissioning

We could fabricate complex mechanical structures and reverse it. We design, develop and fabricate your structures and when it comes time to decommission, we disassemble, cut, inspect and dispose per your requirements.



General Structure Fabrication

Precision Welding

Our certified welders are capable of giving you reliable welds using the latest TIG and MIG welding methods.

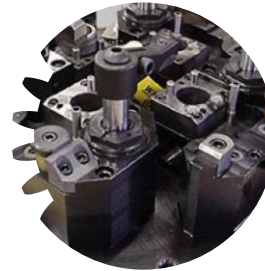
Additive Manufacturing

Revolutionizing Reusables: Save the environment by preventing waste – both in new component fabrication and spare parts reclaim and refurbishment. We run additive manufacturing then mill for accuracy.



Decommissioning and Disassembly

We support Decommissioning Project Managers to ensure your facilities (offshore and onshore) are efficiently and safely decommissioned



Manufacturing Jigs & Fixtures

We get you to be at your most productive zone with our reliable, precision and low-maintenance jigs and fixtures.



Specialty Trucks

We design, develop, fabricate and process statutory vehicle applications to make your customized offroad/ specialty trucks road-legal

CAPABILITY HIGHLIGHTS

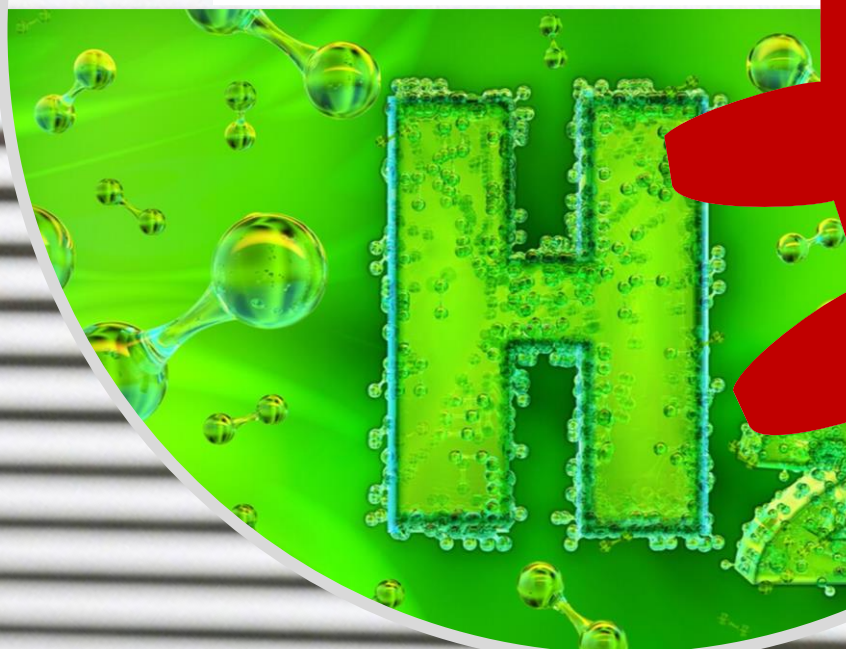
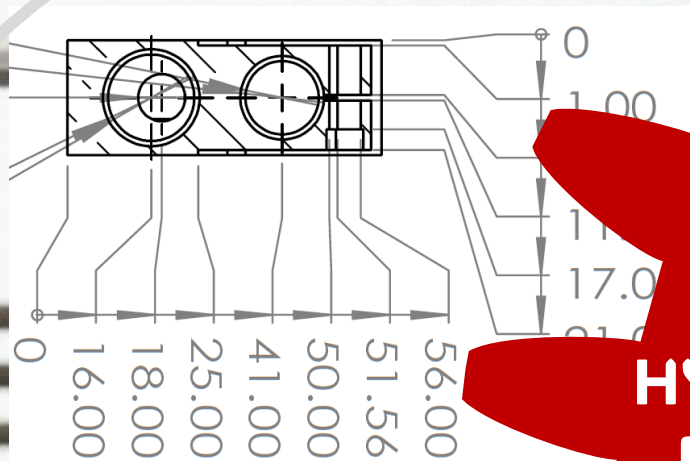
WHAT WE HAVE DELIVERED



**SPECIALTY
TRUCKS**
DESIGN
DEVELOPMENT
FABRICATION
LEGALIZATION

CAPABILITY HIGHLIGHTS

WHAT WE HAVE DELIVERED



**HYDROGEN
BIPOLAR
PLATES**
PROTOTYPING
FIRST ARTICLE
LOW VOLUME
HIGH VOLUME
LEAK TEST

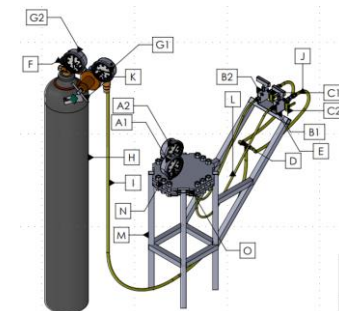
THE PATH LESS TRAVELLED

OUR JOURNEY ON ENERGY
SUSTAINABILITY

While the world seems to focus on solar as the renewable energy of choice and Battery-driven EV as the fast-growing mobility, we chose to differ.

We chose to focus our efforts on Hydrogen. It is one of the most abundant resource in the world and we think that it is a greener choice. We have been working and shall continue to push the boundaries of Hydrogen Fuel Cell EV as the prominent future transportation normals.

We have been working hand-in-hand with the nation's respected research and development centers and have been part of the team who studied, produced, verified, tested and validated the bipolar plates for the prototypes of the nation's first Hydrogen Electrolysers.



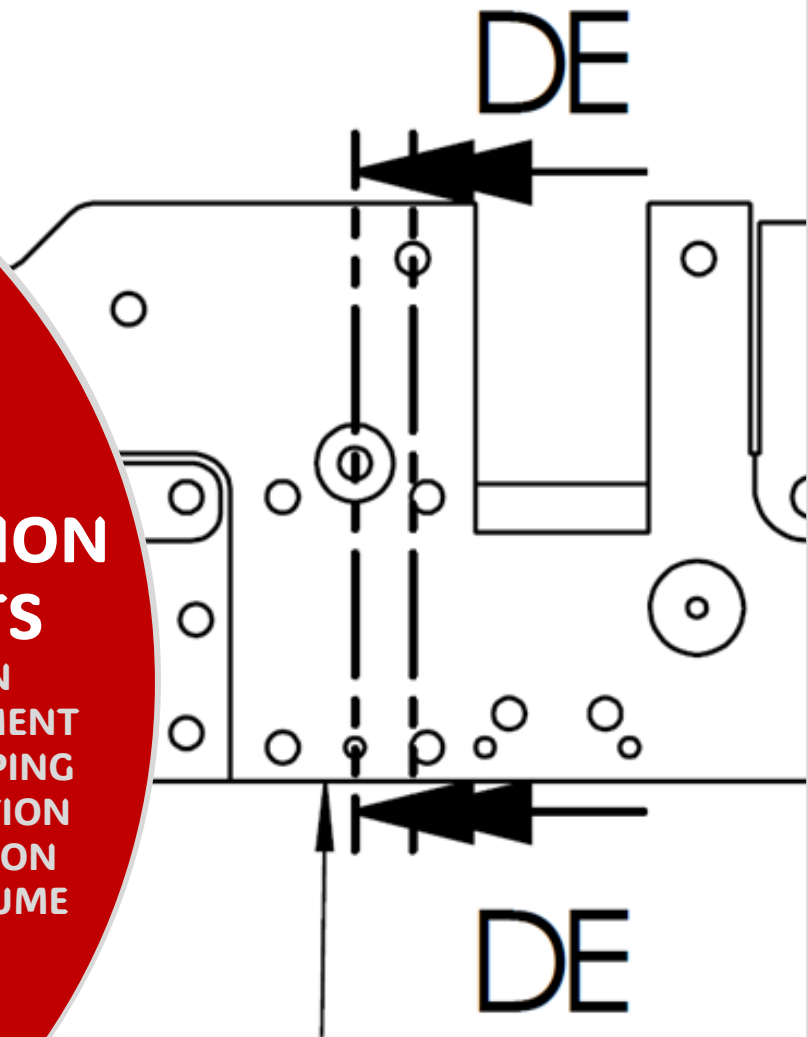
CAPABILITY HIGHLIGHTS

WHAT WE HAVE DELIVERED



PRECISION PARTS

DESIGN
DEVELOPMENT
PROTOTYPING
VERIFICATION
VALIDATION
LOW VOLUME



Our 5-Axis CNC Milling Center is capable to produce very complicated design traditionally not within reach of the conventional Milling machines. We could consistently meet tolerance of up to +/-10 microns and we have been delivering this since 2021.

CAPABILITY HIGHLIGHTS

**SPARE
PARTS**

REVERSE –
ENGINEERING:
3D SCANNING
CAD & DRAFTING
PROTOTYPING
VERIFICATION
VALIDATION
PRODUCTION

TRANSFORM YOUR
OUTDATED SPARE PARTS
INTO OUTSTANDING
FUNCTIONAL AND RELIABLE
PARTS WITH OUR REVERSE-
ENGINEERED COMPONENTS
SERVICES

OUT DATED 
STANDING 

CURRENT CAPABILITIES

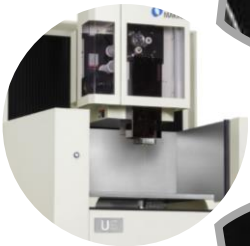
IOT-Ready Peripherals

MACHINING PERIPHERALS AND SUPPORT SYSTEM

OKAMOTO ACC105GX
AUTOMATED GRINDING MACHINE



MAKINO EDNC6
ELECTRICAL DISCHARGE MACHINING



WENZEL XORBIT
COORDINATED MEASURING MACHINE



Computer Numerical Control (CNC) Milling

STATE-OF-THE-ART MACHINES RANGING FROM 3 TO 5 AXIS CAPABILITY



HAAS VF2
3-AXIS MILLING



HAAS ST20Y
3-AXIS TURNING CENTER



HAAS VF6SS
3-AXIS VERTICAL MILLING



MAZAK C600
5-AXIS MILLING

OUR CUSTOMERS

SYMBIOTIC RELATIONSHIPS

“Our suppliers and us sleep in the same bed. They sneeze and we’ll catch a cold. That’s how important our relationships are – with our customers and external providers.

Hakimi Nasir,
Corporate Services



ESQUEL GROUP



technologies



LIMPAHAN INNOVATIVE PARTNERSHIP
LET'S GROW TOGETHER

LIMPAHAN FRONTIER

PUSHING THE BOUNDARIES

RESEARCH & DEVELOPMENT AND COLLABORATIONS.

OUR CONCEPTUALIZATION OF THE FUTURE ALIGNS US WITH THE NATION'S PREMIER TECHNOLOGY CENTERS AND KNOWLEDGE BANKS WHERE WE COLLABORATED AS THEIR DEVELOPMENT AND SMART PROTOTYPING PARTNERS.

In our quest to make the world a better place for our next generation, we have collaborated with premier research and development centers in Malaysia to push the boundaries in renewable energy possibilities, focusing on green hydrogen generation and its value ecosystem.

Watch this space for more breakthroughs in years to come.



UNIVERSITI
KEBANGSAAN
MALAYSIA
*The National University
of Malaysia*

- HYDROGEN FUEL CELL,
- PROTON EXCHANGE MEMBRANE
- PLATINUM COATING



- (FUTURE): HYDROGEN STORAGE

PETRONAS
RESEARCH



- PEM HYDROGEN ELECTROLYSER



PETRONAS

- MACHINING WORKSHOP
- IN-SITU MACHINING
- PIPE THREADING SERVICES



- ENGINEERING EQUIPMENT AND MACHINERY



- 100% BUMIPUTERA SME



MANUFACTURING LICENSES:

- HIGH PRECISION PARTS
- TOOLS, DIES AND MOULDS
- GENERAL METAL FABRICATION

LIMPAHAN ENGINEERING



We Aspire to be a **KEY PLAYER** in Assisting the National Agenda to Move Towards a **DEVELOPED NATION** and a **ZERO CARBON** Citizen of the World.

We Plan to **DO This** by Solving the Mechanical Systems **PAIN POINTS** of the **INDUSTRY** Players; and for Ourselves, to be a **Net ZERO Carbon** Operation.

RESSPRECISIONPOW
IONPOWERINGPRO
RINGPROGRESSPRE

GET IN TOUCH
WITH US.
LET'S GROW
TOGETHER AND
STRIVE TO MAKE
THE WORLD A
BETTER PLACE



www.limpahan.com

LIMPAHAN FOR THE FUTURE
MAKING THE WORLD A BETTER PLACE