

COMPANY PROFILE

NUSANTARA TECHNOLOGIES SDN BHD

187753D



- Quality, Safety & Trust -

**Your ONE STOP Test,
Calibration & NDT Inspection
Provider**



Quality, Safety and Trust

This is what we build and practice in Nusantara Technologies Sdn Bhd as a testimony of our commitment.

The core focuses of Nusatek:

Metrology, Material & Metallurgical Testing and Non Destructive Testing

We have vast experience in Oil & Gas industry, steel fabricator, steel structure, power plant, manufacturing, automotive and transportation sectors.

As one stop center for test and inspection, we obliged to provide extensive range of services to meet your required standard and specification via testing and quality control.



Our HEADQUARTERS in Kota Kemuning, Shah Alam houses our Material & Metallurgical Testing laboratories.

Business Address (HQ):

No. 5 Jalan Anggerik Mokra 31/45, Section 31, 40460
Kota Kemuning Shah Alam
Selangor Darul Ehsan.
Tel. No: +603 5122 9766 Email: info@nusatek.com



WISMA MIRIAM

Accommodate our Metrology Laboratories,
NDT Division and our training center
at Bukit Kemuning, Shah Alam.

Wisma Miriam Address:

No. 9, Jalan Sungai Jerluh 32/196, Bukit Kemuning,
Seksyen 32, 40460 Shah Alam.
Tel No: +603 55251766

Kemaman Branch:

K-7206, Kawasan Perindustrian Jakar II,
24000 Kemaman, Terengganu.
Tel. No: +609 859 8529



Labuan Branch:

No. 2, Taman Arena Phase 2, Jalan Kerupang 2,
8700 Wilayah Persekutuan Labuan.
Tel. No.: 019 3149 767

INTRODUCTION
&
COMPANY
ORGANIZATION

COMPANY ORGANISATION



DATO' MOHAMED RAZALI @ GHAZALI BIN DATO' MOHAMED YUSOFF
Managing Director

Dato' Mohamed Razali Bin Dato' Mohamed Yusoff, aged 74, holds a Bachelor of Arts in Economics and Geography from University of Malaya in 1968 and an Honorary Doctorate from the University of Nottingham.

He is a well-known business entrepreneur having more than 36 years of experience in various industries, ranging from banking, manufacturing and academia. Apart from being the Executive Chairman of Nusantara Technologies Sdn Bhd, he also serves on several universities such as being a Honorary Distinguished Visiting Fellow and Writer, Universiti Teknologi Malaysia; a Member of the Board of Trustees, Raja Zarith Sofiah Foundation, Universiti Teknologi Malaysia/ Le High University, Pennsylvania USA; on the Board of Advisors, Centre of Malay Excellence, Universiti Malaya; and the Board of Advisors, University Industry Collaboration, Universiti Utara Malaysia.

He is also the financial advisor for Nusantara Test Services Sdn Bhd, an affiliate of Nusantara Technologies Sdn Bhd.

With his vast knowledge, experience and influential contact, he will steer the company into greater heights and contribute tremendously toward the growth and success of the Company.

COMPANY DIRECTORS



NAZARUDDIN BIN DATO' MOHAMED RAZALI
Director

Nazaruddin bin Dato' Mohamed Razali, aged 48, holds a Bachelor of Science (Honours) in Economics from the University of Bradford, United Kingdom and holds a Diploma in Manufacturing Management from the FMM Institute of Manufacturing.

He is the Lead Assessor for ISO 17025. He also holds Certificate of Health and Safety Officer from the National Institute of Occupational Safety & Health (NIOSH). In addition to his Directorship in Nusatest, he is also the Head of Quality, Safety and Compliance; and Quality Manager, and Signatory for the Metrology Laboratory in Nusantara Technologies Sdn. Bhd.

He is also the financial advisor for Nusantara Test Services Sdn Bhd, an affiliate of Nusantara Technologies Sdn Bhd.

With his vast knowledge, experience and influential contact, he will steer the company into greater heights and contribute tremendously toward the growth and success of the Company.



MOHD DIAH BIN BABA
Director

Mr. Mohd Diah Baba, aged 57, holds a Degree in Mechanical Engineering from MARA Institute Technology, Shah Alam. He is among the very few who holds an ASNT Level III in Radiography Testing.

Prior to joining the company, he was attached to the Malaysian Institute of Nuclear Technology (MINT). Since 2011, he has been appointed as member of National Industrial Expert by Department of Skill Development, Ministry of Human Resources on Non-Destructive Testing field. He is active with the Malaysian Society of Non-Destructive Testing as a panel expert and syllabus creation for NDT in the Majlis Latihan Vokasional Kebangsaan (National Council for Vocational Training).

With his vast knowledge and experience, he will continue to bring about change and growth to the company.



PAMELA S.C. CHAN
Finance & Admin Director

Mdm. Pamela S C Chan, aged 58 is a chartered accountant by profession and currently the Finance & Administration Director of the company. She is a member of Malaysian Institute of Accountants and also a fellow member of Association of Chartered Certified Accountants (ACCA).

She has worked in various organizations ranging from SME to MNC. Prior to joining Nusatek, she was attached to a multinational engineering company. She has worked in various establishments ranging from trading to service industries managing finance, administration and human resource matters.



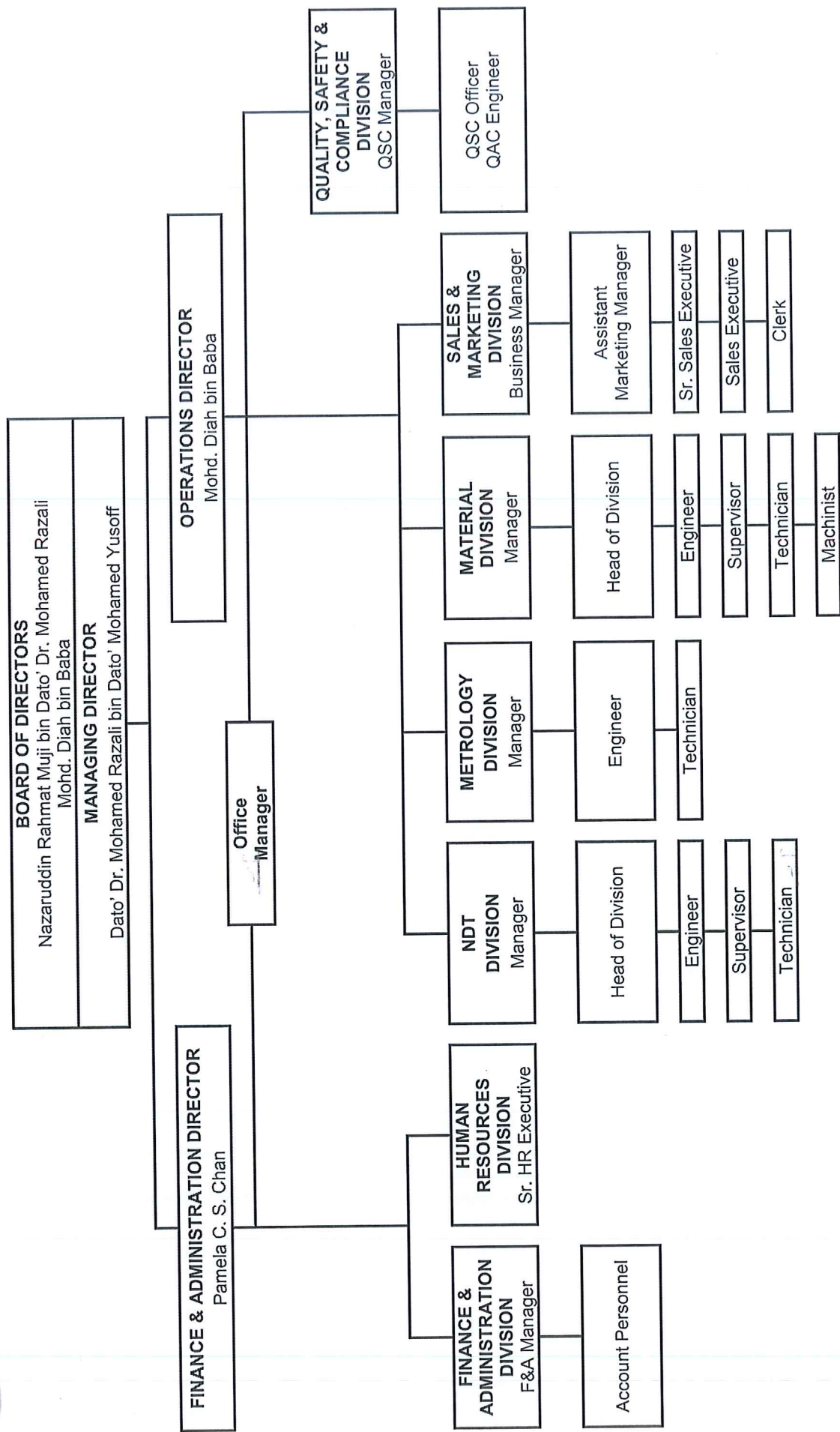
KB YEOH
Business Manager

Mr. KB Yeoh, aged 51 is currently the Business Manager of the company specializes in electrical engineering. He joined the company in 2010. He has over 22 years of experience serving in the management level as Sales to Country Manager. He has vast experience in the automotive, semi-conductor, engineering and oil and gas sectors.

With his expertise and wide knowledge, he will contribute greatly into developing value-added new services and engine of growth for the company.



ORGANIZATION CHART





ANNUAL OSHE OBJECTIVES AND TARGETS

- The company OSHE policy is to ensure consistent adherence to proper practices and procedures towards achieving excellent safety, health and environmental performance are successfully implemented; and to ensure OSHE considerations are integrated into all activities.
- Continuously provide a safe and healthy work environment for all employees and develop a culture which encourages employees to take personal responsibility for OSHE and aim to maintain zero accidents and injuries in our working activities.
- Comply with all applicable and relevant laws and regulations and any legal requirements.
- Continuously providing necessary training to employees to ensure adequacy in their safety, health and environmental awareness, skill, knowledge and competency.
- Continuously providing the necessary and relevant personnel protective equipment to employees.

NAZARUDDIN BIN MOHAMED RAZALI
CHAIRMAN OF OSHEC
29th MARCH, 2019



NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)

No. 5, Jalan Anggerik Mokara 31/45, Seksyen 31, Kota Kemuning,
40460 Shah Alam, Selangor Darul Ehsan, Malaysia.

Tel: 603-5122 9766/7/8 Fax: 603-5122 8766/7 E-mail: info@nusatek.com



COMPANY OCCUPATIONAL SAFETY, HEALTH AND ENVIRONMENT POLICY

Nusantara Technologies Sdn. Bhd., being as a laboratory and testing company, are fully committed to our staff, clients and industry to provide our best service. As a service provider, we certainly emphasized that our safety, health and environment policy is compliance with the Occupational Safety and Health Act 1994 and Atomic Energy Licensing Board.

In line with our motto Quality and Expertise, we hereby committed to ensure that:

1. "Safety First" at all times shall be utmost bear in mind of all employees of Nusatek.
2. A safe and healthy work environment for all staffs and others.
3. Compliance to applicable statutory and regulatory requirements, standards and practices.
4. Establishment of reports, notification of safety and health violation, non-compliances items, and deficiencies.
5. Requisition for Special Safety Investigation for reported incidents and step taken for corrective and preventive measures and notification of findings.
6. Allocate adequate facilities, training equipment, effective distributing of information and knowledge to all staffs and clients.
7. Quick response to any request for inspection or evaluation of unsafe act and unsafe conditions which is believed may constitute a safety and health hazard.
8. Demonstrate our commitment to occupational safety, health and environmental matter by putting OSHE as the important agenda of all business meeting, review and revised work practices and procedures regularly.

"Reasonable Care & Safety First leads to safer and healthier work environment"

NAZARUDDIN BIN MOHAMED RAZALI
CHAIRMAN OF OSHEC
29th MARCH, 2019



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DASAR KESELAMATAN, KESIHATAN PEKERJAAN DAN ALAM SEKITAR SYARIKAT

Sebagai sebuah syarikat pembekal perkhidmatan makmal dan ujian, Nusantara Technologies Sdn. Bhd. meletakkan sepenuh komitmen terhadap setiap pekerja dan pelanggan dalam memastikan kami dapat memberikan perkhidmatan yang terbaik di dalam industri ini. Justeru itu, kami amat menekankan dasar keselamatan, kesihatan pekerjaan dan alam sekitar kami mematuhi piawaian Akta Keselamatan dan Kesihatan Pekerjaan 1994 dan Lembaga Perlesenan Tenaga Atom.

Seiring dengan motto kami Kualiti dan Kepakaran, kami bersungguh-sungguh dalam memastikan:

1. "Utamakan Keselamatan" mestilah menjadi keutamaan bagi setiap pekerja Nusatek pada setiap masa.
2. Persekitaran kerja yang selamat dan sihat bagi semua pekerja dan orang lain.
3. Pematuhan terhadap undang-undang, peraturan dan tatacara amalan mengikut piawaian yang telah ditetapkan.
4. Pembentukan laporan dan pemberitahuan tentang pelanggaran dan ketidakpatuhan terhadap hal-hal keselamatan dan kesihatan, serta kekurangannya.
5. Permintaan bagi Siasatan Keselamatan Khusus untuk insiden yang dilaporkan dan langkah-langkah susulan yang diambil untuk tindakan pencegahan dan pembetulan serta pemberitahuan hasil siasatan.
6. Peruntukan kemudahan yang mencukupi, peralatan latihan, penyebaran maklumat dan pengetahuan yang berkesan kepada seluruh kakitangan dan pelanggan.
7. Tindakan pantas terhadap sebarang permintaan untuk pemeriksaan dan penilaian bagi keadaan dan tindakan yang tidak selamat yang diyakini boleh menimbulkan bahaya keselamatan dan kesihatan.
8. Menunjukkan komitmen yang berterusan terhadap keselamatan, kesihatan dan alam sekitar dengan meletakkan OSHE sebagai agenda penting dalam mesyuarat perniagaan, ulasan dan semakan prosedur kerja yang kerap.

"Perhatian Wajar dan Utamakan Keselamatan mengarah kepada persekitaran kerja yang lebih selamat dan sihat"

NAZARUDDIN BIN MOHAMED RAZALI
PENGERUSI OSHEC
29hb. MAC, 2019

NUSANTARA TECHNOLOGIES SDN BHD
COMPANY PROFILE – ED 2020 REV. 0

The employees of the company consists of the following levels:

No	Categories	Bumiputera	Non-Bumiputera
1.	Managerial	9	2
2.	Engineers	14	1
3.	Executives	8	
4.	Supervisors	7	
5.	Technician	71	
6.	Machinist	8	
7.	Clerical	8	
8.	General Workers	1	
Sub-Total		126	3
Total		129	

NUSANTARA TECHNOLOGIES SDN BHD

COMPANY PROFILE – ED 2020 REV. 0

NUSANTARA TECHNOLOGIES SDN BHD (**NUSATEK**) is an established test laboratory set-up to provide industries with various testing services required under the International Standards Organisation. Our endeavor is to assist industries to achieve **ZERO DEFECTS** through a wide range of field testing and certification services in a one-stop testing laboratory to minimize costs. It is always our priority to provide the shortest turnaround time at a very competitive price.

The ranges of services provided by Nusatek are: -

NON DESTRUCTIVE TESTING

- X-Ray and Gamma Radiography (RT)
- Magnetic Particle Inspection & Magnetic Flux Leakage (Tank Scanning)
- Dye Penetrant Inspection (PT)
- Hardness Test (HT)
- Ultrasonic Testing, Ultrasonic Flaw Detection & Long Range Ultrasonic Testing (LRUT)
- Ultrasonic Thickness Measurement (UTM)
- Phase Array Ultrasonic Testing (PAUT)
- Holiday Detector Examination
- Videoscope Testing (Boroscope)
- Supplying of QA/QC Inspectors

MECCHANICAL AND METALLURGICAL TESTING

- Fatigue Test
- Tensile Test
- Compression Test
- Impact Test
- Shear Test
- Bend Test & Rebend Test
- Welder's Performance Qualification Test
- Welding Procedure Qualification Test
- Metallurgical Examination for Material Investigation
- Hardness Test (Rockwell/Vickers/Brinell)
- Micro hardness Test on plating and weldment
- Post Weld Heat Treatment
- Chemical Composition Analysis
- Positive Material Identification
- Metallographic Examination
- In-situ Replica Metallography Test
- Failure Analysis
- Corrosion Testing (Cathodic Protection)

METROLOGY / CALIBRATION SERVICES

- Dimensional Calibration
- Electrical Calibration
- Mass Calibration
- Force, Pressure and Torque Calibration
- Temperature Calibration
- Electrical Calibration
- Jig Measurement
- Hydrostatic Testing
- Load Test & Vacuum Testing

ENVIRONMENTAL RELIABILITY TESTING

- Salt/Spray Test
- Altitude/Temperature Test
- Temperature and Humidity Cycling Test
- Thermal Shock Test
- Slat Fog Test
- Sine or Random Vibration Test
- Random on Random Vibration Test
- Mechanical Shock Test
- Resonance Search and Dwell Test
- Fixture Design and Qualification Test
- Combined Environmental Test
- Field Measurement/Analysis/Test Parameters Derivation
- MIL STD 8100/E Customized Test
- Environmental Stress Screening
- Chamber Calibration on site
- Accelerometer

ADVANCED NON-DESTRUCTIVE TESTING

- Eddy Current Testing (Ferrous/Non-Ferrous)
- Internal Rotary Inspection System (IRIS)
- Phase Array Ultrasonic Testing (PAUT)
- Remote Field Eddy Current Testing
- Time of Flight Diffraction (TOFD)

NON-DESTRUCTIVE TESTING

Nusatek provides a wide range of Non-Destructive Testing (NDT) services for petrochemical plants, oil and gas refineries, marine and metal fabrication industries.

The company is an established NDT services provider and has built up a reputable track record in the oil and gas industry. Our technicians are all highly skilled and experienced, with extensive qualifications pertaining to Non-Destructive Testing. Nusatek readily deploys its technicians on-site to various locations, even off shore, to carry out NDT work.

The scope of NDT services are as follows:

- X-Ray and Gamma Radiography (Ir 192)
- Ultrasonic Flaw Detection
- Magnetic Particle Inspection
- Liquid Penetrant Inspection
- Ultrasonic Thickness Measurement
- Eddy Current Testing
- Post Weld Heat Treatment (PWHT)
- Supply of QA/QC Inspectors



Our range of NDT equipment is extensive, in accordance to our clients' demands and even includes a mobile darkroom for on-site radiography work. We are constantly improving and upgrading our equipment and services to serve our clients better. Our Kemaman and Ipoh branches are located to provide better service in the key oil and gas, and industrial areas.



We aim to provide our clients precise and efficient results in Non-Destructive Testing to save them time and money and ultimately provide a high degree of safety and confidence.

NDT Division Key Personnel

ARBAEN PAIMIN
Division Head
arbaen@nusatek.com

MOHD ZAFFRI AROHAD
NDT Manager
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MD NAZARI KAMIL HAMDAN
Supervisor
n_kamil@nusatek.com

LIST OF NDT EQUIPMENT

No.	Equipment	Manufacturer	Made/Type	Range	Remark
1.	Magnetic AC-Yoke	USA	Magnaflux YM-6	6 in	23 units
2.	Permanent Magnet Yoke	USA	Magnaflux YM-5	6 in	17 units
3.	Black (UV) Light (Flourescent Inspection)	USA	Magnaflux ZB100f	0.1 Lux	2 unit
4.	Digital Radiometer/Photometer (Visible & Black Light)	USA	Spectroline	0-19, 990Lux	1 unit
5.	Ultrasonic Thickness Gauge	USA	Panametric 26MG	1-100mm (Acc ± 0.01mm)	2 units
		Germany	Krautkramer DM4	1-100mm (Acc ±0.01mm)	4units
		USA	Stress Tel T-Scope DL	1-100mm (Acc ± 0.01mm)	1 unit
6.	Ultrasonic Flaw Detector	Germany	Krautkramer USK-7S	1 meter	1 unit
		USA	Panametric Ephoc II	1 meter	1 unit
		USA	Panametric Ephoc III	1 meter	6 units
		USA	Panametric Ephoc LT	1meter	3units
		Germany	Krautkramer USM35	1 meter	6 units
7.	Portable Hardness Equipment (Impact Type)	USA	VEW	125-400HB	1 unit
		India	POLDI	125-400HB	1 unit
		USA	Telebrinell	125-400HB	1 unit
8.	Portable Hardness Equipment (Digital Impact rebound)	Switzerland	Equotip 2D	125-400HB	2 units
9.	Holiday Detector	Australia	PCWI HD 30		1 unit
10.	Gamma Projector	USA	Amertest 660B	120Ci	7units
		USA	IR 100	120Ci	4units
		USA	Delta 660	120Ci	6units
11.	X-ray Machine (Directional)	Japan	Rigaku Radioflex 200 EG-S3	200kV	1 unit

List of NDT Equipment

No.	Equipment	Manufacturer	Made/Type	Range	Remark
12.	Radiation Monitoring Device, Survey Meter	USA	NDS 2000	0-1000 mr/hr	20 units
		IN C	INC Model 2	0-1000 mr/hr	3 units
13.	Safety Emergency Device – Lead Pot, Handling Tong & Cutter	USA	N/A	N/A	16 units
14.	Radiation Protection Shielding – Collimeter	USA	IEA/INC	N/A	14 units
15.	Radiation Monitoring Device – Bleeper	USA	NDS PRODUCTS ND-15	mr/hr	13 units
16.	Radiation Monitoring Device- Pocket Dosimeter	USA	NDS PRODUCTS W138	0 – 200mr/hr	9 units
17.	Film Viewer	USA	Hot Spot	N/A	4 units
		Local	High Density	N/A	3 units
		Local	Normal with Hot Spot	N/A	9 units
		Local	Normal Viewing	N/A	10 units
18.	Densitometer	England/Japan	Konica PDA-85	0-4	3 units
		UK	Kodak DDS2	0-4	11 units
19.	Mobile Dark Room	Japan	Nissan		1 unit
20.	Site Vehicle	Japan	Nissan (van)		8 units
			Suzuki Jeep		1 unit

MATERIAL TESTING

material@nusatek.com

Nusatek's material laboratory is able to provide assistance in the verification and selection of material used in industries and projects. Welding procedures and welder qualification tests are extensively carried out for oil and gas, marine and construction industries.

The scope for Mechanical and Metallurgical testing and inspection are:

- All Weld Tensile test
- Hot Tensile Test
- Round Tensile Test
- Bend test
- Fracture Test / Nick Break test
- Hardness Test (Rockwell, Vickers, Brinell)
- Macro Etch examination
- Charpy Impact Test
- Compression Test
- Tube To Tubesheet Test
- Welding Procedure test and Welder Qualification test in accordance to ASME IX, API 1104, AWS D1.1, EN 287/288 and etc.
- Chemical Analysis / Chemical Composition Analysis
- Microstructure Analysis
- Ferrite Test
- Ferrite Count
- Corrosion Test
- Failure Analysis
- PMI Test
- Grain Size Analysis
- Sensitization Test



Nusatek's integrated laboratories and machining shop provides an efficient and time saving testing centre where samples can be prepared and promptly tested. In addition, our wide range of testing equipment including two tensile machines, under our skilled personnel allow various testing methods to be carried out simultaneously.

A quick turnaround time coupled with precise results is the aim of our Material Testing laboratory. Our high degree of professionalism and confidence from our clients is reflected in our holding of a **PETRONAS** license for **Materials Testing, Identification** and **Failure Analysis** Services.

In addition to the above, if required by our clients, we can and do carry out other types material testing. Clients are encouraged to inquire further if they have any other requirements.



Material Division Key Personnel

SARWANI MAHPOZ
Division Head
wan_mz@nusatek.com

SALINA SAIDIN
Manager
salina@nusatek.com

NOR HIDAYAH SAIDON
Senior Engineer
hidayah.saidon@nusatek.com

LIST OF MATERIAL TESTING EQUIPMENT

No.	Equipment	Manuf.	Made	Model	Range	Remark
1.	Universal Testing Machine	Hung Ta	Taiwan	HT-8502A	30,000kgf	
2.	Universal Testing Machine	Hung Ta	Taiwan	HT-9502	100,000kgf	
3.	Pendulum Impact Tester	Avery Deinson	England	6706U6706	0-300J 0-150J	Charpy Izod
4.	Hardness Tester	Avery Denison Eseyaw	England	DVRV-M	30-100kgf 60,100 & 150kgf 30-250kgf	Vickers Hardness Rockwell Hardness Brinell Hardness
5.	Vickers Hardness Tester	Mitutoyo	Japan	AVK-C1	0.3-20kgf	
6.	Multipurpose Instant Camera	Polaroid	Japan	MP-4	0.3-7.6 Magnification	Macro Photo
7.	Digital Thermometer	Hanna	Italy	HAHI/93530	-200 °C to 1370° C	K-Type
8.	Milling Machine	Holke Bridge	Spain Taiwan	F-11-V B-25		1 unit 1 unit
9.	Bandsaw Machine	Everising Everising Daito Everising	Taiwan Taiwan Japan Taiwan	S-12T S-12H SA330 H-5550	400mm cutting length 400mm cutting length 400mm cutting length 550mm cutting length	
10.	Advance Grinding Machine c/w Digital Optical Dressor	Okomoto	Japan	ACC-450pV	18" x 6" accuracy + 0.1µm	Charpy Sample Preparation
11.	Material Composite Analyser (Spectrometer)	Worlwide Analytical System AG	German	Foundry Master	Steel, Aluminium, Copper; High Hi/Cr and Tool Steel, High Alloy Steel	Lab Unit

List of Material Testing Equipment

No.	Equipment	Manuf.	Made	Model	Range	Remark
12.	Positive Material Identification (X-ray Fluorescent Analyzer) Spark Emission Spectrometer	Worldwide Analytical System AG	German	PMI-Master	Steel, Aluminium, Copper; High Hi/Cr and Tool Steel, High Alloy Steel	In-situ Unit
13.	Positive Material Identification (X-ray Fluorescent Analyzer)	Niton II 800 series. X-ray Fluorescence Analyser	USA	Niton II 800 series	Steel & Alloy Steel	In-situ Unit
14.	Metallurgical Microscope	CARMAR		CM-28-XTD20	0-200x 200-1000x	
15.	Positive Material Identification (X-ray Fluorescent Analyzer)	Niton	USA	Niton XLt 800	Steel & Alloy Steel	In-situ Unit
16.	Positive Material Identification (X-ray Fluorescent Analyzer)	Metorex	Finland	X-Met 300TA	Steel & Alloy Steel	In-situ Unit
17.	Precision Cooled Incubators	MEMMERT	Germany	ICP400-800	0° to 60°C	Lab Unit
18.	Metallurgical Microscope	OLYMPUS	JAPAN	BX51M	50X to 1000X	Lab Unit
19.	Grinding & Polishing Instruments	METRON	TURKEY	GRIPO 2V	-	Lab Unit
20.	Specimen Mover	METRON	TURKEY	FORCIMAT	-	Lab Unit
21.	NC Milling Machine	John Ford			-	1 unit
22.	Lathe Machine	Pinnacle Precision		Pin 22	560X200	1 unit
23.	Scanning Electron Microscope	Jeol	France	5410LV	3.0nm	1 unit

METROLOGY SERVICES

metrology@nusatek.com

Nusatek provides industries valuable assistance to conform to ISO 9000 requirements in calibration of measuring instruments to ensure accuracy in measurements.

Our team of skilled and professional technicians carry out their work in an integrated laboratory environment, providing a one-stop centre for your calibration requirements.

The scope of calibration and inspection services provided by Nusatek include:

- **Dimensional Calibration:** calipers*, micrometers*, dial indicators*, profile projectors, pin/plug gauges, ultrasonic thickness gauges, feeler gauges, radius gauges, thread plug gauges, linear scales and etc.
- **Electrical Calibration:** Multimeter, Multitester, Insulation Tester, Clamp Meter, Earth Tester, Holiday Detector, Stop Watch, Welding Machine, Signal Generator, Process Meter and etc.
- **Mass Calibration:** mechanical/electronic balance, weighing scale, platform scale/balance, triple beam balance and etc.
- **Force, Pressure and Torque Calibration:** pressure gauges*, recorders*, switches, torque analyzer, torque wrench, tensile machine, load cell, valves, push/pull gauges and etc.
- **Temperature Calibration:** temperature probes, gauges, controllers, transmitters, ovens, furnaces, dry block calibrators and etc.
- **Hydrostatic Testing:** for vessels and pipelines.
- **Load Test:** web/wire sling, man cage, metal box
- **Vacuum Test:** top & Bottom plate tank



In addition to in-lab calibration work, our technicians are experienced in carrying out on-site calibration work (even off shore) for time dependent and critical work.

Our measurement and calibration instruments are traceable and certified to National Standards and our clients are guaranteed a high degree of confidence in our precision work. The laboratory holds a **PETRONAS** license for **Classification, Certification and Calibration**.

We aim to enlarge our scope of services provided and we always welcome inquiries with regards to calibration.

Metrology Key Personnel

HAIRUL JEFNI HISHAM HAIRONI
Metrology Manager
hairul@nusatek.com

MOHAMMAD ASYRAF NORUDIN
Metrology Engineer
asyraf@nusatek.com

Our Capability

Dimensional

Caliper
Internal / External
Micrometer
Dial Gauge / Indicator
Bevel Protractor
Standard Rod
Level Gauge
Ultrasonic Thickness
Gauge
Vernier Caliper
Height Gauge
Depth Gauge
Densitometer
Step Wedge
Thickness Foil
Measuring Tape
Steel Ruler
Holtest
Coating Thickness Gauge
Welding Gauge
Taper Gauge
Feeler Gauge
Fillet Gauge

Hydrotest

Safety Valve
Pressure Relieve Valve
Piping
Hose
Boiler / Tank
Cylinder

Vacuum Test

Top & Bottom Plate Tank

Pressure

Pressure & Test Gauge
Pressure Transducer
Pressure Transmitter
Pressure Calibrator
Pressure Recorder
Vacuum Gauge
Manometer
Differential Pressure
Gauge

Temperature

Temp Controller
Temp. Gauge
Temp. Wire / Sensor
Oven
Chiller
Freezer
Temp Calibrator
Furnace
Infrared Thermometer
Liquid in Glass
Thermometer
Temperature Transmitter
Thermohygrometer

Force

Torque Wrench
Push Pull Gauge
Hardness Tester
Durometer

Load Test

Web / Wire Sling
Man Cage
Metal Box
Lifting Bar

Mass

Balance
Weighing Scale
Dead Weight
Standard Weight
Silo Scale
Platform Scale

Electrical

Oscilloscope
Multimeter
Clamp Meter
Power Meter
Phase Meter
AC/DC Power Supply
Welding Machine
Portable Calibrator
LCR Meter
Insulation Tester
Withstanding Voltage
Tester
Milliohm meter
Stop Watch
Hipot Tester
Relay Test Unit
Loop Tester
Processmeter
Megaohmmeter
Volt / Ammeter
Frequency Meter
Frequency Generator
Timer
Surface Resistivity Meter

For more
details, please
contact us..

1) LAB: PRESSURE

Bil	Control No	Name	Model	Manufacturer	Serial No	Range
1	NMP001	Digital Calibrator	MC2	Beamex	13023 / NMP001	0 - 2400 psi
2	NMP002	Digital Calibrator	MC2	Beamex	13024 / NMP002	-13.7 - 300 psi
3	NMP003	External Pressure Module	EXT600	Beamex	39191 / NMP003	0 - 9000 psi
4	NMP004	Dead Weight Tester	580 HX	DH.Budenberg	580/30239 / NMP004	0 - 16000 psi
5	NMP004A	Dead Weights	N/A	DH Budenberg	N/A / NMP004A	N/A
6	NMP005	Dead Weight Tester	L1400-3	Pressurement Ltd	59039 / NMP005	35 - 3000 psi
7	NMP005A	Dead Weights	L1400-3	Pressurement Ltd	59039 / NMP005A	35-3000 psi
8	NMP006	Digital Test Gauge	N/A	Crystal	762124 / NMP006	0 - 10000 psi
9	NMP007	Digital Test Gauge	N/A	Crystal	760241 / NMP007	0 - 5000 Psi
10	NMP008	Dead Weight Tester	4301	Desgranges et Huot	6630 / NMP008	0-120 bar
11	NMP008A	Deadweights	N/A	Desgranges et Huot	D 4019 / NMP008A	N/A
12	NMP009	Digital Pressure Indicator	DPI 104	Druck	3747745 / NMP009	0 - 10000 psi
13	NMP-A-001	PGXH Hydraulic Pressure Pump			230528 / NMP-A-001	0 - 10000 psi
14	NMP-A-002	PGV Vacuum Calibration Hand-Pump			13798 / NMP-A-002	0 ~ -13.7 psi
15	NMP-A-003	PGM Pneumatic Pressure Hand-Pump			28134 / NMP-A-003	0 - 300 psi
16	NMP-A-004	Maximus-Primo Combo Hand Pump			62091 / NMP-A-004	-13.7 ~ 600 psi
17	NMP011	Digital Test Gauge	DPI 104	Druck	3867101 / NMP011	0 - 1000 psi
18	NMP012	Pressure Calibrator	PPC 7 BAR	Ametek	NT 0963 / NMP012	-14.5 ~ 100 psi
19	NMP013	Digital Test Gauge	680	Additel	C7727A / NMP013	0 ~ 40000 psi
20	NMP014	Digital Pressure Indicator	DPI 104	Druck	4316409 / NMP014	100 psi
21	NMP015	Digital Pressure Indicator	DPI 104	Druck	4159360 / NMP015	300 psi
22	NMP028I	Pressure & Temperature Recorder	N/A	Rototherm	E000003914/1 / NMP 028I	0 ~ 20000 psi

2) LAB : ELECTRICAL

Bil	Control No	Name	Model	Manufacturer	Serial No	Range
1	NME012	100M-10kV Decade Resistance Box	HRRS-Q-5-100M-10kV	IET	E1-1508613 / NME012	100M ~ 10 T Ohm
2	NME013	1M-5kV Decade Resistance Box	HRRS-Q-6-1M-5kV	IET	E1-15086123 / NME013	1M ~ 1 T Ohm
3	NME006	754 Doc.Process Calibrator-HART	754	Fluke	2969008 / NME006	Refer to specification
4	NME007	149- 10A High Voltage Meter	149-10A	Kikusui	UM 002929 / NME007	0 - 10.000 KV
5	NME008	87-5 Industrial Multimeter	87-5	Fluke	30220439 /NME008	Refer to specification
6	NME009	80K-40 High Voltage Probe	80K-40	Fluke	29630074 / NME009	28 KV AC, 40KV DC
7	NME010	279301 Decade Resistance Box	279301	Yokogawa	45VX0018 / NME010	0.1 - 1111.21 ohm
8	NME011	279303 Decade Resistance Box	279303	Yokogawa	45VX1005 / NME011	0 - 100.000 Mohm
9	NME014	2003A Clamp Meter	2003A	Kyoritsu	W8177258 / NME014	0 - 2000A
10	NME001	212 Clamp Meter	212	Center	031210398 / NME001	0 to 1000A
11	NME002	5522A Multi-Product Calibrator	5522A	Fluke	2156903 / NME002	0-1000V
12	NME003	8845A Precision Multimeter	8845A	Fluke	2101004 / NME003	0-1000V
13	NME005	77-2 Multimeter	77 II	Fluke	66910913 / NME005	0-1000V

3) LAB : FORCE

Bil	Control No	Name	Model	Manufacturer	Serial No	Range
1	NMF001	Torque Wrench Tester	2000 DOTE2	Tohnichi	702924P / NMF001	0 - 2000 kgf.cm
2	NMF002	Torque Wrench Tester	360 DOTE2	Tohnichi	703362P / NMF002	0 - 360 kgf.cm
3	NMF003	Torque Wrench Tester	43220	Norbar	77795 / NMF003	0 - 1500 Nm

4) LAB : TEMPERATURE

Bil	Control No	Name	Model	Manufacturer	Serial No	Range
1	NMT023	Thermocouple Probe	N/A	Omega	NT 2935-17 / NMT023	0 ~ 500 ° C
2	NMT001	Temperature Calibrator	TC305	Beamex	2377 / NMT001	- 100 ~ 1800 ° C
3	NMT002	2625A Data Logger	Hydra 2625A	Fluke	6961601 / NMT002	-100 ~ 1372 ° C
4	NMT003	RTD Probe	N/A	N/A	RTD02 / NMT003	- 40 ~ 300 ° C
5	NMT005	Thermocouple Probe	N/A	Omega	960255K1 / NMT005	0 - 700 ° C
6	NMT006	Thermocouple Probe	N/A	Omega	960244K1 / NMT006	0 - 700 ° C
7	NMT001I	Thermocouple wire (K)	N/A	N/A	01 / NMT001I	0 -700 ° C
8	NMT002I	Thermocouple wire (K)	N/A	N/A	02 / NMT002I	0 -700 ° C
9	NMT003I	Thermocouple wire (K)	N/A	N/A	03/ NMT003I	0 -700 ° C
10	NMT004I	Thermocouple wire (K)	N/A	N/A	04 / NMT004I	0 -700 ° C
11	NMT005I	Thermocouple wire (K)	N/A	N/A	05 / NMT005I	0 -700 ° C
12	NMT006I	Thermocouple wire (K)	N/A	N/A	06 / NMT006I	0 -700 ° C
13	NMT009	9142 Field Metrology Well	9142-A-P	Fluke	B4B142 / NMT009	-25 - 150 ° C
14	NMT010	9144 Field Metrology Well	9144-A-P	Fluke	B4B757 / NMT010	50 - 660 ° C
15	NMT014	4180 Precision Infrared Calibrator	4180	Fluke	B51698 / NMT014	-15 - 120 ° C
16	NMT015	4181 Precision Infrared Calibrator	4181	Fluke	B51215 / NMT015	35 - 500 ° C
17	NMT012	5626 Secondary Std. PRT	5626	Fluke	3670 / NMT012	-200 - 660 ° C
18	NMT008	1502A Thermometer Readout	1502A	Fluke	B51773 / NMT008	-200 - 950 ° C
19	NMT011	9150 Thermocouple Furnace	9150	Fluke	B51470 / NMT011	150 - 1200 ° C
20	NMT013	7320 Compact Bath	7320	Fluke	B51867 / NMT013	-20 - 150 ° C
21	NMT004	RTD Probe	N/A	N/A	RTD01 / NMT004	- 40 ~ 300 ° C
22	NMT007	Temperature Recorder	VM7000	Ohkura	1DS2131219 / NMT007	0 -1200 ° C
23	NMT016	Thermocouple Probe	N/A	Omega	N/A / NMT016	0 ~ 1200 ° C
24	NMT017	Temperature & Humidity Data Logger	HL-1D	Rotronic	814120282 / NMT017	-20 ~ 70 ° C 0 ~ 100 %RH
25	NMT018	Temperature & Humidity Data Logger	HL-1D	Rotronic	814120283 / NMT018	-20 ~ 70 ° C 0 ~ 100 %RH

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Bil	Control No	Name	Model	Manufacturer	Serial No	Range
26	NMT019	Temperature & Humidity Data Logger	HL-1D	Rotronic	814120284 / NMT019	-20 ~ 70 °C 0 ~ 100 %RH
27	NMT020	Temperature & Humidity Data Logger	HL-1D	Rotronic	814120285 / NMT020	-20 ~ 70 °C 0 ~ 100 %RH
28	NMT021	Temperature & Humidity Data Logger	HL-1D	Rotronic	814120286 / NMT021	-20 ~ 70 °C 0 ~ 100 %RH
29	NMT022	Temperature & Humidity Data Logger	HL-1D	Rotronic	814120287 / NMT022	-20 ~ 70 °C 0 ~ 100 %RH
30	NMT009I	Thermocouple wire (K)	N/A	N/A	09 / NMT009I	0 -1200 ° C
31	NMT010I	Thermocouple wire (K)	N/A	N/A	10 / NMT010I	0 -1200 ° C
32	NMT011I	Thermocouple wire (K)	N/A	N/A	11 / NMT011I	0 -1200 ° C
33	NMT012I	Thermocouple wire (K)	N/A	N/A	12 / NMT012I	0 -1200 ° C
34	NMT013I	Thermocouple wire (T)	N/A	N/A	T1 / NMT013I	-50 ~ 200 ° C
35	NMT014I	Thermocouple wire (T)	N/A	N/A	T2 / NMT014I	-50 ~ 200 ° C
36	NMT015I	Thermocouple wire (T)	N/A	N/A	T3 / NMT015I	-50 ~ 200 ° C
37	NMT016I	Thermocouple wire (T)	N/A	N/A	T4 / NMT016I	-50 ~ 200 ° C
38	NMT017I	Thermocouple wire (T)	N/A	N/A	T5 / NMT017I	-50 ~ 200 ° C
39	NMT018I	Thermocouple wire (T)	N/A	N/A	T6 / NMT018I	-50 ~ 200 ° C
40	NMT019I	Thermocouple wire (T)	N/A	N/A	T7 / NMT019I	-50 ~ 200 ° C
41	NMT020I	Thermocouple wire (T)	N/A	N/A	T8 / NMT020I	-50 ~ 200 ° C
42	NMT021I	Thermocouple wire (T)	N/A	N/A	T9 / NMT021I	-50 ~ 200 ° C
43	NMT022I	Thermocouple wire (T)	N/A	N/A	T10 / NMT022I	-50 ~ 200 ° C
44	NMT023I	Thermocouple wire (T)	N/A	N/A	T11 / NMT023I	-50 ~ 200 ° C
45	NMT024I	Thermocouple wire (T)	N/A	N/A	T12 / NMT024I	-50 ~ 200 ° C
46	NMT007I	Thermocouple wire (K)	N/A	N/A	07 / NMT007I	0 -1200 ° C
47	NMT008I	Thermocouple wire (K)	N/A	N/A	08 / NMT008I	0 -1200 ° C

5) LAB : DIMENSIONAL

Bil	Control No	Name	Model	Manufacturer	Serial No	Range
1	NMD001	Gauge Block	CS2508	Aditya	2189 / NMD001	2.5 - 25 mm (10 pcs)
2	NMD002	Gauge Block	CS2509	Mitutoyo	186740 / NMD002	1.0005 - 100 mm (112 pcs)
3	NMD003	Gauge Block	Mitutoyo 516-930	Mitutoyo	211441 / NMD003	0.0625- 2.00 inch (9pcs)
4	NMD004	Gauge Block	CS2506	SELECT	102810 / NMD004	125 - 500 mm (8 pcs)
5	NMD010	Glass Scale	172-118	Mitutoyo	6089 / NMD010	0 - 200mm
6	NMD011	Step Wedge	N/A	N/A	MET-0001D / NMD011	1 - 5 mm, 6 - 10 mm, 80 - 100 mm
7	NMD012	Calibration Block	N/A	N/A	MET-0002D / NMD012	20 - 40 mm, 50 - 70 mm, 80 -100 mm
8	NMD014	Gauge Block Set	Mitutoyo 516-938R-10	Mitutoyo	1006621 / NMD014	0.5-100mm (112 pcs)
9	NMD015	Gauge Block Micrometer Set	Mitutoyo 516-106-10	Mitutoyo	1108701 / NMD015	2.5-25mm (10 pcs)
10	NMD016	Cera Caliper Checker	515-556-2	Mitutoyo	1100094 / NMD016	600mm
11	NMD017	Optical parallel	157-903	Mitutoyo	NMD017	12.00-12.37 (4pcs)
12	NMD018	Optical Flat	158-118	Mitutoyo	001655 / NMD018	45 mm
13	NMD019	I-Checker	170-311E	Mitutoyo Cooperation, Japan	106881208 / NMD019	0~100mm
14	NMD020	Granite Surface Plate	CX2538	RAHN	30319 / NMD020	1200 x 900mm
15	NMD022	Angle Block Set	FB-12 (AB-12)	Fuji Tool Japan	-	1/4 ~ 30 degree
16	NMD021	Profile Projector			3219/8/89 / NMD021	
17	NMD022I	Universal Measuring Machine		SIP	2407	0 ~ 300 mm
18	NMD013I	Dial Test Indicator			8022429 / NMD012I	0-0.2mm
19	MD2	Vernier Caliper			3052100/ MD2	
20	NMD023I	Internal Micrometer	137-203	N/A	6006730 / NMD023I	50 ~ 500 mm

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Bil	Control No	Name	Model	Manufacturer	Serial No	Range
21	NMD023	Precision Foil Set	N/A	Elcometer	NMD023	Refer to the results
22	NMD024	External Micrometer with Rod	340-351-10	Mitutoyo	35156991 / NMD024	0 ~ 152.4 mm
23	NMD0021	Dial Thickness Gauge		Mitutoyo	PR4-0-07 / NMD0021	25 ~ 50 mm
24	CU6711	Digital Caliper	500-196-20		12110970 / CU6711	0 ~ 150 mm

6) LAB : MASS

Bil	Control No	Name	Model	Manufacturer	Serial No	Range
1	NMM001	Standard Weight (F1)	N/A	Arrow	MET-0002M / NMM001	5 mg - 1 kg (22 pcs)
2	NMM002	Standard Weight (F2)	N/A	N/A	MET-0001M / NMM002	1 - 10 kg (4 pcs)
3	NMM003	Standard Weight (M2)	N/A	Arrow	CD1267 / NMM003	20 kg (25 pcs)
4	NMM004	Mass Comparator	XA200/2Y/KB	Radwag	361808/12 / NMM004	200 g
5	NMM005	Mass Comparator	PS 1.3Y.KB	Radwag	A13996/12 / NMM005	1.05 kg
6	NMM006	Mass Comparator	APP 25/2Y/KB	Radwag	361809/12 / NMM006	25.5 kg
7	NMM007	Standard Weight (M2)	M2	ARROW	CD1268 / NMM007	20kg (12 pcs)
8	NMM015	Weight Block	N/A		MPI 18-2 / NMM015	18 kg
9	NMM012	Standard Weight (F1)	N/A		C2019-E / NMM012	10 kg (2 pcs)
10	NMM010	Standard Weight	N/A	N/A	MET-0003M-5 ~ 14 / NMM 010	1000 g
11	NMM011	Standard Weight	N/A	N/A	MET-0003M-1 ~ 4 / NMM 011	2000 g
12	NMM009	Standard Weight	N/A	N/A	NT 0001 ~ 0010 / NMM 009	500 g
13	NMM008	Standard Weight (M2)	M2	ARROW	N/A / NMM008	10kg (10 pcs)
14	NMM013	Standard Weight (F2)	N/A		C8468F / NMM013	100 g-10 kg (9 pcs)
15	NMM014	Standard Weight (F1)	N/A		C8467F / NMM014	100 g-10 kg (4 pcs)



Registration & License Certificates

- 1. KKM CERTIFICATE**
- 2. CIDB REGISTRATION**
- 3. PETRONAS LICENSE**
- 4. LPTA LICENSE**
- 5. WIM CERTIFICATE**
- 6. ISO 17025 CERTIFICATES**
 - Mechanical Testing Laboratories**
 - Metrology/Calibration Laboratories**



KEMENTERIAN KEWANGAN MALAYSIA

SIJIL AKUAN PENDAFTARAN SYARIKAT

NO SIJIL : K22089459101799646
NO RUJUKAN PENDAFTARAN : 357-02149960
TEMPOH SAH LAKU : 16/08/2017 - 15/08/2020

Bahawa dengan ini diperakui syarikat :

NUSANTARA TECHNOLOGIES SDN. BHD. (187753-D)
5, JALAN ANGGERIK MOKARA 31/45
SEKSYEN 31, KOTA KEMUNING
KELANG
40460 SHAH ALAM
SELANGOR, MALAYSIA

Telah berdaftar dengan Kementerian Kewangan Malaysia dalam bidang bekalan/perkhidmatan di bawah sektor, bidang dan sub-bidang seperti di Lampiran A. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Lampiran B. Individu yang diberi kuasa oleh syarikat bagi urusan perolehan Kerajaan adalah seperti berikut :

MOHD. DIAH BIN BABA	631023045967	OPERATIONS DIRECTOR
CHAN SOW CHAN	620505086266	PENGARAH KEWANGAN
NORHAYATI BINTI HASHIM	720530045536	OFFICE MANAGER
NORASHID BIN TOHID	750111105271	MANAGER

t.t

DATO' OTHMAN BIN SEMAIL
Bahagian Perolehan Kerajaan
b,p Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 16/08/2017

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

NO SIJIL : K22089459101799646
NO RUJUKAN PENDAFTARAN : 357-02149960
TEMPOH SAH LAKU : 16/08/2017 - 15/08/2020

BIL	TARIKH DAFTAR BIDANG	KOD BIDANG	KETERANGAN	STATUS
1	16/08/2017	020804	PAKAIAN KESELAMATAN, KELENGKAPAN DAN AKSESORI	Aktif
2	16/08/2017	060102	KIMIA INDUSTRI	Aktif
3	16/08/2017	110701	PERALATAN MARIN	Aktif
4	16/08/2017	120401	ALAT KESELAMATAN,PERLINDUNGAN DAN KAWALAN PERLINDUNGAN	Aktif
5	16/08/2017	130201	JANAKUASA,PERALATAN/ALAT GANTI/AKSESORI(SECONDARY)	Aktif
6	16/08/2017	140101	MOTOR DAN ALATUBAH/ALATGANTI	Aktif
7	16/08/2017	140201	STESEN JANAKUASA, PERALATAN/ALAT GANTI/AKSESORI(PRIMARY)	Aktif
8	16/08/2017	220505	MECHANISATION SYSTEM (CONVEYOR, LIFT DLL)	Aktif
9	16/08/2017	220601	ALAT KELENGKAPAN HOSPITAL/MAKMAL	Aktif
10	16/08/2017	221110	KHIDMAT LATIHAN,TENAGA PENGAJAR DAN MODERATOR/NEGOTIATOR	Aktif
11	16/08/2017	222706	KODIFIKASI	Aktif

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 16/08/2017

SYARAT KELULUSAN SIJIL AKUAN PENDAFTARAN SYARIKAT

1. SYARAT AM

- 1.1 Kelulusan ini diberi berdasarkan maklumat-maklumat yang telah disampaikan oleh pihak syarikat tuan.
- 1.2 Apa-apa perubahan ke atas maklumat-maklumat tersebut hendaklah dibuat kemaskini secara *online* di Modul Kemaskini Profil di alamat www.eperolehan.gov.my dalam tempoh masa dua puluh satu (21) hari dari tarikh perubahan tersebut berlaku dan sekiranya gagal berbuat demikian boleh mengakibatkan tindakan seperti di para 1.5 di bawah.
- 1.3 Syarikat hendaklah mengemukakan segala maklumat dalam tempoh yang ditetapkan apabila diminta oleh Kementerian Kewangan Malaysia. Kegagalan berbuat demikian akan mengakibatkan tindakan seperti di para 1.5 di bawah.
- 1.4 Syarikat hendaklah memastikan bahawa bidang yang telah didaftarkan dalam sijil ini tidak bertindih dengan bidang yang telah diluluskan ke atas mana-mana syarikat seperti berikut:
 - 1.4.1 Mempunyai Pemilik atau Lembaga Pengarah/Pengarah, Pengurusan dan Pekerja yang sama; atau
 - 1.4.2 Beroperasi di premis yang sama.
- 1.5 Kementerian Kewangan Malaysia berhak untuk membuat lawatan atau pemeriksaan audit pada bila-bila masa tanpa dimaklumkan terlebih dahulu. Kegagalan mematuhi syarat-syarat pendaftaran, kod bidang dan/atau pendaftaran syarikat tuan boleh digantung/dibatalkan dan syarikat, Pemilik serta Lembaga Pengarah/Pengarah diambil tindakan tatatertib termasuk disenaraihitamkan tanpa apa-apa notis jika didapati maklumat yang diberi tidak benar.
- 1.6 Syarikat yang baru didaftarkan tidak dibenarkan membuat sebarang perubahan ke atas Pemilik atau Pengarah dalam tempoh **enam (6) bulan** daripada tarikh syarikat didaftarkan.
- 1.7 Kegagalan syarikat membuat permohonan pembaharuan pendaftaran selepas **satu (1) tahun** dari tarikh tamat tempoh pendaftaran boleh mengakibatkan pendaftaran syarikat dengan Kementerian Kewangan Malaysia akan dibatalkan dan dikeluarkan secara automatik daripada Sistem ePerolehan. Syarikat hendaklah membuat permohonan baru.

2. PENGANTUNGAN/PEMBATALAN PENDAFTARAN

- 2.1 Pendaftaran syarikat akan digantung/dibatalkan sekiranya didapati syarikat melakukan kesalahan seperti berikut:
 - 2.1.1 Syarikat/pemilik/perkongsian/pengarah/mana-mana ahli pengurusan telah melakukan jenayah dan didapati bersalah oleh mahkamah di Malaysia atau luar negeri atau mengalami tanggungan sivil.
 - 2.1.2 Syarikat menarik balik tawaran sebelum tender dipertimbangkan atau menolak setelah tawaran dibuat.
 - 2.1.3 Syarikat gagal melaksanakan obligasi kontrak-kontrak yang telah ditandatangani dengan Kerajaan.
 - 2.1.4 Syarikat didapati meminda Sijil Akuan Pendaftaran Syarikat dengan tujuan menipu atau lain-lain maksud.
 - 2.1.5 Syarikat membenarkan Sijil Akuan Pendaftaran Syarikat disalahgunakan oleh individu/syarikat lain.
 - 2.1.6 Syarikat didapati membuat pakatan harga dengan syarikat-syarikat lain semasa memasuki tender Kerajaan atau sub-kontrak tanpa persetujuan terlebih dahulu daripada Agensi Kerajaan yang terlibat.

3. PEMBAHARUAN

- 3.1 Bermula 1 Ogos 2017, syarikat tuan dibenarkan untuk mengemukakan permohonan pembaharuan pendaftaran **empat (4) bulan** sebelum tamat tempoh pendaftaran. Ia adalah bertujuan untuk memberi tempoh masa yang cukup untuk menyelesaikan permohonan pembaharuan sebelum aktiviti peralihan dari Sistem eP sedia ada kepada Sistem eP Baharu.
- 3.2 Permohonan yang diterima selepas tamat tempoh pendaftaran adalah dianggap pendaftaran pembaharuan.

4. HAK KERAJAAN

- 4.1 Sijil Akuan Pendaftaran Syarikat yang dikeluarkan secara *Virtual* adalah **HAK KERAJAAN**. Kerajaan berhak untuk menarik balik pendaftaran/digantung/dibatalkan sekiranya syarikat dikenakan tindakan tatatertib selaras dengan **Surat Pekeliling Perbendaharaan Bilangan 6 Tahun 2010**.

5. PENYERTAAN PEROLEHAN KERAJAAN

- 5.1 Dengan pengeluaran Sijil *Virtual*, Sijil ini tidak lagi perlu ditunjukkan semasa mengambil dokumen perolehan Kerajaan (pembelian terus, tender/sebut harga dan lain-lain kaedah perolehan) kecuali bagi Agensi Kerajaan yang tiada capaian internet.
- 5.2 Syarikat hendaklah memastikan pendaftaran dengan Kementerian Kewangan Malaysia masih sah laku sepanjang tempoh kontrak berkuat kuasa.

6. PERINGATAN MENGENAI KESALAHAN RASUAH

- 6.1 Sebarang perbuatan atau percubaan rasuah untuk menawar atau memberi, meminta atau menerima apa-apa suapan secara rasuah kepada dan daripada mana-mana orang berkaitan perolehan Kerajaan merupakan suatu kesalahan jenayah di bawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [Akta 694].



PERAKUAN PENDAFTARAN

Adalah dengan ini diperakui bahawa kontraktor yang dinyatakan di bawah ini telah berdaftar dengan Lembaga mengikut Bahagian VI Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994. Pendaftaran ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan bersama perakuan ini.

No. Pendaftaran : 0120170807-WP002068
Nama Kontraktor : NUSANTARA TECHNOLOGIES SDN. BHD.
Alamat Berdaftar : UNIT 30-01, LEVEL 30, TOWER A VERTICAL BUSINESS SUITE, AVENUE 3
BANGSAR SOUTH, NO. 8 JALAN KERINCHI
59200 KLANG
Daerah : KUALA LUMPUR
Tarikh Mula Berdaftar : 27/09/2017

<u>GRED</u>	<u>KATEGORI</u>	<u>PENGGHUSUSAN</u>
G7	B	B04
G7	CE	CE21
G7	ME	M15

Tarikh Mula Berkuatkuasa : 16/10/2019

Tarikh Habis Tempoh Perakuan : 14/10/2021

STATUS: DORMAN

Ketua Eksekutif
Lembaga Pembangunan Industri Pembinaan Malaysia
Tarikh: 16/10/2019



SYARAT-SYARAT PENDAFTARAN

1. Syarat Am

- a) Perakuan ini tidak boleh dipindah milik.
- b) Lembaga mempunyai hak mengkaji semula gred pendaftaran kontraktor dari semasa ke semasa.

2. Tanggungjawab dan Obligasi Kontraktor

- a) Kontraktor hendaklah mematuhi peruntukan-peruntukan Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994 ('Akta'), peraturan-peraturan yang dibuat di bawahnya dan apa-apa terma, syarat-syarat atau sekatan yang dikenakan oleh Lembaga dari semasa ke semasa.
- b) Kontraktor tidaklah boleh menyertai mana-mana tender atau melaksanakan apa-apa kerja pembinaan selepas habis tempoh Perakuan ini dan sehingga ianya diperbaharui.
- c) Kontraktor tidaklah boleh mengakujanji membina apa-apa projek pembinaan yang melebihi nilai kerja pembinaan yang dinyatakan di bawah gred pendaftaran dan tidaklah boleh melaksanakan apa-apa projek pembinaan di luar kategori pendaftarannya.
- d) Kontraktor hendaklah mengemukakan maklumat mengenai apa-apa kerja pembinaan atau kontrak dalam tempoh empat belas hari selepas diaward atau sebelum mula kerja atau mana-mana terdahulu.
- e) Kontraktor hendaklah mengemukakan apa-apa maklumat yang dikehendaki oleh Lembaga dari semasa ke semasa.
- f) Kontraktor hendaklah mempamerkan Perakuan Pendaftarannya yang dikeluarkan oleh Lembaga atau salinan Perakuan Pendaftaran yang diperakui oleh Lembaga di tempat perniagaannya.
- g) Kontraktor hendaklah mempamerkan nombor pendaftaran atas papan tanda di setiap tapak pembinaannya.
- h) Kontraktor hendaklah memohon untuk memperbaharui pendaftaran dalam tempoh enam puluh hari sebelum tarikh habis tempoh yang dinyatakan dalam Perakuan itu.
- i) Kontraktor hendaklah mematuhi semua kehendak dan ketetapan di dalam Kod Etika Kontraktor.
- j) Kontraktor hendaklah melantik pekerja binaan mahir dan penyelia tapak yang diakreditasi dan diperakui oleh Lembaga.
- k) Semua pekerja di tapak bina hendaklah mempunyai Kad Personel Binaan yang masih sah.

3. Tindakan Tatatertib

Pendaftaran kontraktor hendaklah dibatal atau digantung jika:-

- a) kontraktor tidak mematuhi kehendak mana-mana undang bertulis yang lain;
- b) kontraktor telah dihukum menjadi bankrap;
- c) petisyen penggulungan berhubungan dengan kontraktor telah diserahkan;
- d) kontraktor melanggar atau tidak mematuhi mana-mana peruntukan Akta;
- e) kontraktor telah mendapat Perakuan dengan membuat atau menyebabkan dibuat apa-apa akuan, pemerakuan atau representasi palsu atau fraud secara bertulis atau selainnya;
- f) kontraktor meninggalkan apa-apa kerja pembinaan yang diakujanji tanpa apa-apa sebab yang munasabah;
- g) kontraktor telah didapati bersalah kerana cuai oleh mahkamah atau mana-mana lembaga penyiasatan yang ditubuhkan di bawah mana-mana undang-undang bertulis berhubungan dengan apa-apa kerja pembinaan yang diakujanji; atau
- h) kontraktor telah melanggar mana-mana terma dan syarat-syarat Tanggungjawab dan Obligasi Kontraktor yang dinyatakan dalam perenggan 2.

a. Jadual Gred & Had Tender

Gred	Keupayaan Menender / Menjalankan Kerja (RM)
G7	Tiada Had
G6	Tidak melebihi 10 juta
G5	Tidak melebihi 5 juta
G4	Tidak melebihi 3 juta
G3	Tidak melebihi 1 juta
G2	Tidak melebihi 5 ratus ribu
G1	Tidak melebihi 2 ratus ribu

4. Definisi Status

- a) Baru: Kontraktor yang baru berdaftar
- b) Aktif: Kontraktor tempatan yang di anugerah projek dalam tempoh tiga (3) tahun terkini atau mempunyai projek sepanjang tempoh pendaftaran berkuatkuasa.
- c) Dorman: Kontraktor yang tidak di anugerah sebarang projek dalam tempoh tiga (3) tahun terkini.



LICENSE TO SUPPLY PRODUCT/SERVICE TO EXPLORATION AND OIL/GAS COMPANIES IN MALAYSIA

In exercising the powers conferred by Section 7, Petroleum Development Act 1974 and in accordance to Regulation 5 of the Petroleum Regulation 1974, delegated to me by the Prime Minister of Malaysia, I hereby issue the license under Regulation 3 of the Petroleum Regulation for the purpose of the above to:

Printed Date: 08.01.2020

NUSANTARA TECHNOLOGIES SDN BHD (187753-D)
NO. 5, JALAN ANGERIK MOKARA 31/45 SEKSYEN 31, KOTA KEMUNING
40460 SHAH ALAM
SELANGOR

Details of License are as follows:-

Company's No : 187753-D

Type of Company : LICENSE

Duration of License : 18.06.2018 - 17.06.2021

License Fee : RM 1,500

Categories of Product/Service : As attached in 'CATEGORIES OF LICENSE / REGISTRATION'.

Special Conditions impose onto this license:-

Subject to the special conditions as attached.

General requirements of this License are as stated in the next page.

Reminder: License Must Apply For Renewal 3 Months Before The Expiry Date.

This is a computer generated printout and no signature from PETRONAS is required.



PETRONAS LICENSE GENERAL CONDITIONS

1. Company is required to register, obtain a license, permit or authorization from the relevant authority to carry out the services or supply of product or material used in company's operation and activities;
2. This license is not transferable to any company/other party;
3. This license will be revoked if the company is found to be in the process of liquidation, winding-up or dissolution;
4. Company shall inform PETRONAS on any changes related to company's position such as equity ownership, board of directors and management staff within **fourteen (14) days**. Failure to do so can result in revoke of License;
5. Company should take immediate action to adhere to the special conditions imposed as stated in the appendix of the PETRONAS license certificate and to inform PETRONAS on the progress of this action;
6. Company is not allowed to take another company as principal, agent, sub-contractor or otherwise to provide any service or supply of any facility, fittings or equipment on its behalf without prior written consent from PETRONAS;
7. Company shall allow PETRONAS representatives for inspection visit / site / company audit and review / copy of documents and interviewing employees and related parties;
8. This License must be shown to PETRONAS's officers when it is required for inspection;
9. This License is only valid for services and supply of products as stated in the appendix of the PETRONAS license certificate;
10. This company can be penalised if in PETRONAS' opinion, it has conducted one or more of the following:
 - a. Failed to execute the award job until completion.
 - b. Failed to perform a contractual obligation or any other obligation under the law to partners, principals, agents, sub-contractors and others.
 - c. Received garnishee order.
 - d. Facing bankruptcy action.
 - e. Cannot be traced through the last address.

- f. Sub-contract work to another contractor without written permission from PETRONAS.
 - g. Reject any contract or tender awarded.
 - h. Entering or accepting contract or tender during the license suspension period.
 - i. Provide false, inaccurate or misleading information.
 - j. Does not follow tender's regulations and ethics including but not only limited to sending poison-pen letters, bribing or lobbying.
 - k. Engaged in any inappropriate activities with this License.
11. According to Act 9, Petroleum Acts 1974, a person who initiate or continue any business or continue providing services as mentioned in Act 3 without a license or do not comply with any condition of the license is committing a crime and can be fined not exceeding RM50,000.00 (Fifty Thousand Ringgit) or imprisonment for a period not more than two (2) years or both and in respect of each continuous crime, it is subject to further fine of RM1,000.00 (One Thousand Ringgit) for every one (1) day or any part of one (1) day which the offense continues after the first conviction is recorded;
 12. This approval is not an agreement/guarantee that your company will be called to participate in a tender or quotation of PETRONAS or its subsidiaries;
 13. The company either by itself, through its employees, directors, agents or its employees;
 - a. Not allow to use the logo of the PETRONAS's oil drop or the word "PETRONAS" or use any mark, logo or words or wearing typeface, font, which resembles the appearance or colour trademarks owned or used by PETRONAS or its subsidiaries ("the PETRONAS trademarks") in any form whether in printing materials, websites or hand board; and
 - b. Not allow to perform any act or in any way either directly or indirectly admits that it is a partner or have any connection/relationship with PETRONAS and/or its subsidiaries, UNLESS AND EXCEPT company is allowed to use reference [Company] is licensed by PETRONAS [No. license], under Act 3 Petroleum Act 1974.
 14. This License may be revoked, suspended or blacklisted at any time if any of the above conditions, general conditions of PETRONAS license and registration and any other conditions set in PETRONAS License and Registration General Guidelines are not fulfilled.

act101



COMPANY'S NAME : NUSANTARA TECHNOLOGIES SDN BHD (187753-D)
 LICENSE NO : 187753-D
 LICENSE PERIOD : 18.06.2018 - 17.06.2021

CATEGORIES OF LICENSE / REGISTRATION
APPROVED LICENSE CATEGORIES

L/R/PROVISIONAL	Service / Supplier Code	Mode of Operation	Principal Name (If Applicable)	Approval Date / Time	Expiry Date
LICENSE	SC3100300 CONSULTANCY SERVICES-LABORATORY SERVICES-LABORATORY EQUIPMENT CALIBRATION SERVICES	SELF-OPERATED	NOT APPLICABLE	07.01.2020 20:01:18	17.06.2021
LICENSE	SO1020000 QUALITY ASSURANCE-MATERIAL-CORROSION & INSPECTION-DESTRUCTIVE TESTING/FAILURE ANALYSIS (SQ1011300, SQ1011400 & SQ1020100 reclass to SQ1020000)	SELF-OPERATED	NOT APPLICABLE	16.05.2018 18:14:14	17.06.2021

act101


*** END ***

act101



AKTA PERLESENAN TENAGA ATOM 1984
PERATURAN - PERATURAN PERLINDUNGAN SINARAN (PERLESENAN) 1986

LESEN
[Peraturan 18]

BORANG LPTA/BL/1		KELAS LESEN A, B, C, D	
Menurut Akta Perlesenan Tenaga Atom 1984 dan peraturan-peraturan yang dibuat di bawahnya, Lembaga Perlesenan Tenaga Atom/Ketua Pengarah Kesihatan dengan ini mengeluarkan lesen seperti berikut :			
Nombor Lesen	LPTA/A/322	Tarikh Mula	01/01/2018
Nombor Fail	LPTA(S):P&P/026/274	Tarikh Tamat	31/12/2020
Nama Pemegang Lesen	NUSANTARA TECHNOLOGIES SDN. BHD. (DATO' MOHAMED RAZALI BIN DATO' MOHAMED YUSOFF)		
Alamat Surat Menyurat	NO. 5, JALAN ANGGERIK MOKARA 31/45,SEKSYEN 31, KOTA KEMUNING, 40460 SHAH ALAM SELANGOR		
Nombor Telefon	03 - 5122 9766		
Alamat Kemudahan/Premis	NO. 5, JALAN ANGGERIK MOKARA 31/45 SEKSYEN 31, KOTA KEMUNING 40460 SHAH ALAM SELANGOR		
Nama Penyelia	M KHAIRUL ANUWAR BIN KHOJALI		
Nombor Kad Pengenalan/Passport	710303105915		
Nama Pegawai Perlindungan Sinaran	MOHD DIAH BIN BABA		
Nombor Kad Pengenalan/Passport	631023045967		
Tujuan	LIHAT LAMPIRAN 1		
Butir-butir mengenai Radas/Bahan/Pemasangan	LIHAT LAMPIRAN A		
Lesen ini adalah tertakluk kepada Akta Perlesenan Tenaga Atom 1984 dan Peraturan -peraturan yang dibuat di bawahnya dan syarat -syarat seperti yang dilampirkan.			
LIHAT LAMPIRAN B			
<i>Ini adalah cetakan komputer dan tidak memerlukan tandatangan</i>			
Setiausaha Eksekutif/ Ketua Pengarah Kesihatan Lembaga Perlesenan Tenaga Atom			

Nombor Siri : 322-21851

Nama Syarikat : NUSANTARA TECHNOLOGIES SDN. BHD.

No Fail : LPTA(S):P&P/026/274

Kelas Lesen : A , B , C , D

No Lesen : LPTA/A/322

Tempoh Sah : 01/01/2018 - 31/12/2020

LAMPIRAN 1

Keterangan Berkenaan Aktiviti Yang Dilesenkan :

1. MEMBELI
2. MEMILIKI
3. MEMPUNYAI
4. MENGANGKUT
5. MENGENDALI
6. MENGGUNA
7. MENSTOR

Nota Tambahan :

Tidak Berkenaan

Ini adalah cetakan komputer dan tidak memerlukan tandatangan

SETIAUSAHA EKSEKUTIF/
KETUA PENGARAH KESIHATAN
LEMBAGA PERLESENAN TENAGA ATOM

26 Jun 2018

Nama Syarikat : NUSANTARA TECHNOLOGIES SDN. BHD.

No Fail : LPTA(S):P&P/026/274

Kelas Lesen : A , B , C , D

No Lesen : LPTA/A/322

Tempoh Sah : 01/01/2018- 31/12/2020

LAMPIRAN A

Keterangan Bahan Radioaktif Yang Dilesenkan (Punca Terkedap)

Jumlah Rekod : 3

Bil	Unsur & No Jisim	Aktiviti	Jumlah	Jumlah Per Bekas	Model Bekas / Punca	Kegunaan
1	Iridium-192 (Ir-192)	3.7 TBq	30 Unit	1	SENTINEL 880 SERIES DELTA	RADIOGRAFI INDUSTRI SINAR GAMA
2	Selenium-75 (Se-75)	3 TBq	3 Unit	1	SENTINEL 880 SERIES DELTA	RADIOGRAFI INDUSTRI SINAR GAMA
3	Selenium-75 (Se-75)	3 TBq	2 Unit	1	SENTINEL 1075 SCARPRO	RADIOGRAFI INDUSTRI SINAR GAMA

Keterangan Bahan Radioaktif Yang Dilesenkan (Tidak Terkedap)

Jumlah Rekod : 0

Bil	Unsur & No Jisim	Aktiviti	Jumlah/ Berat (kg)	Jumlah Per Bekas	Model Bekas Punca	Kegunaan
Tiada Rekod						

Keterangan Radas Penyinaran Yang Dilesenkan

Jumlah Rekod : 6

Bil	Jenis & Model	Maks kV	Maks mA	Maks kW	Jumlah	Kegunaan
1	Hitachi X-Met 8000	50	0.2	0.004	1	SINAR-X ANALISA
2	NITON XL3t GOLDD PLUS SERIES	50	0.02	0.002	2	SINAR-X ANALISA
3	NITON XL3t-900 SERIES	50	0.1	0.002	1	SINAR-X ANALISA
4	Oxford X-MET 8000	50 kV	0.2 mA	0.004 kW	1	SINAR-X ANALISA
5	RIGAKU RADIOFLEX 250 EG-S3	250	5	1.25	1	SINAR-X RADIOGRAFI
6	RIGAKU RADIOFLEX 250EGM2	250	5	1.25	1	SINAR-X RADIOGRAFI

Keterangan Bahan Nuklear Yang Dilesenkan - Tidak Melibatkan Aktiviti Nuklear (Kegunaan Perisaian)

Jumlah Rekod : 1

Bil	Unsur	Aktiviti	Jumlah Berat (kg)	Kuantiti Bahan (Jumlah Unit)	Model Bekas Punca	Kegunaan
1	Uranium-238 (U-238)	6600000000 Bq	508.2	33	SENTINEL 880 SERIES DELTA	PERISAI

Keterangan Bahan Radioaktif Untuk Pindah Milik

Jumlah Rekod : 4

Bil	Unsur	Aktiviti (Tbq)	Jumlah
1	Uranium-238 (U-238)	6718	1

Ini adalah cetakan komputer dan tidak memerlukan tandatangan

SETIAUSAHA EKSEKUTIF/
KETUA PENGARAH KESIHATAN
LEMBAGA PERLESENAN TENAGA ATOM

26 Jun 2018

Nombor Siri : 322-21851

Nama Syarikat : NUSANTARA TECHNOLOGIES SDN. BHD.

No Fail : LPTA(S):P&P/026/274

No Lesen : LPTA/A/322

Kelas Lesen : A , B , C , D

Tempoh Sah : 01/01/2018- 31/12/2020

LAMPIRAN A

2	Uranium-238 (U-238)	6717	1
3	Uranium-238 (U-238)	6714	1
4	Uranium-238 (U-238)	6635	1

Ini adalah cetakan komputer dan tidak memerlukan tandatangan

SETIAUSAHA EKSEKUTIF/
KETUA PENGARAH KESIHATAN
LEMBAGA PERLESENAN TENAGA ATOM

26 Jun 2018



WELDING INSTITUTE OF MALAYSIA

CERTIFICATE OF MEMBERSHIP

This is to certify that

NUSANTARA TECHNOLOGIES SDN BHD

Has been elected as

CORPORATE MEMBER 2012

(C0063)

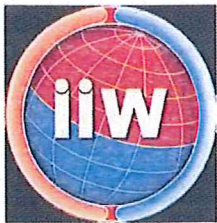
of

WELDING INSTITUTE (MALAYSIA) BHD

(662234U)



Professional Division of
The Welding Institute,
United Kingdom



A member of the
International Institute of
Welding

9 FEB 2012

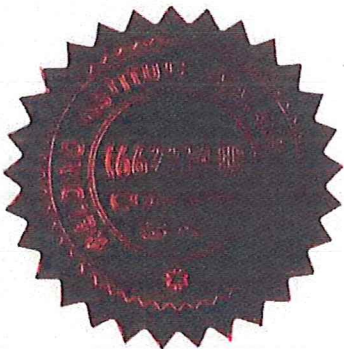
Signature: CHAIRMAN/MEMBER OF COUNCIL

DATE :

9 FEB 2012

Signature: DIRECTOR

DATE :



This certificate is the property of welding Institute (Malaysia) Bhd (662234-U) and must be returned if requested

S/N: 0666



STANDARDS
MALAYSIA

Certificate of Accreditation

No: SMM 545

Accredited since: 2 February 2012

This is to certify that

NUSANTARA TECHNOLOGIES SDN. BHD.
(MATERIAL LAB)
SHAH ALAM, SELANGOR
MALAYSIA



Scan this QR Code or visit
www.ism.gov.my/cab-directories
for the current scope of accreditation

has been granted accreditation in respect of the scope of accreditation described in the schedule, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia* (SMM), the Laboratory Accreditation Scheme of Malaysia.

Laboratories accredited under SMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).



(DATUK FADILAH BAHARIN)
Director General
Department of Standards Malaysia

Date of issue: 8 December 2017

Schedule

Issue date: 19 December 2019
Valid until: 2 February 2021



NO: SAMM 545
(Issue 4, 19 December 2019 replacement of SAMM 545 dated 3 November 2018)

Page: 1 of 8

LABORATORY LOCATION:
(PERMANENT LABORATORY)



FIELD OF TESTING:

NUSANTARA TECHNOLOGIES SDN. BHD.
(MATERIAL LAB)
NO. 5, JALAN ANGGERIK MOKARA 31/45
SEKSYEN 31, KOTA KEMUNING
40460 SHAH ALAM, SELANGOR
MALAYSIA
MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF TESTING: MECHANICAL

Scan this QR Code or visit www.ism.gov.my/cab-directories for the current scope of accreditation

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Mechanical Testing on Welded Steel	Tensile Test (Up to 200 tons)	ASME IX: 2017 AWS D1.1/D1.1M: 2015 AWS D1.2/D1.2M: 2014 AWS D1.6/D1.6M: 2017 API 1104: 13 (2016) AS 1210: 2010/amdt 2-2015 AS/NZS 3992: 2015
	Bend Test	ASTM E190: 2014
	Fracture Test	ASTM E92: 2017 ASTM E384:2017 ASTM E10: 2018
	Nick Break	ASTM E18: 2018a ASTM E23: 2018
	Vickers Hardness Test (0.2 to 20 kgf Load)	ASTM E340: 2015 BS EN ISO 6507-1: 2018 / ISO 6507-1: 2018 BS EN ISO 6506-1: 2014 / ISO 6506-1: 2014 BS EN ISO 6508-1: 2016 / ISO 6508-1: 2016 BS EN ISO 148-1: 2016 / ISO 148-1: 2016
	Brinell Hardness Test	
	Rockwell Hardness	BS EN ISO 15614-1: 2017 / ISO 15614-1:2017
	Charpy Impact Test (Ambient to minus 196°C)	Clause 7.4.2: BS EN ISO 4136: 2012 Clause 7.4.3: BS EN ISO 5173: 2010 + A1: 2011 Clause 7.4.4: BS EN ISO 17639: 2013 Clause 7.4.5: BS EN ISO 9016: 2012 Clause 7.4.6: BS EN ISO 9015-1: 2011
	Macro Etch Examination (Up to 20X Magnification)	BS EN ISO 15614-2: 2005 / ISO 15614-2:2005 Clause 7.4.2: BS EN ISO 4136: 2012 Clause 7.4.3: BS EN ISO 5173: 2010 + A1: 2011 Clause 7.4.4: BS EN ISO 9017: 2018 Clause 7.4.5: BS EN ISO 17639: 2013

Schedule

Issue date: 19 December 2019
Valid until: 2 February 2021



NO: SMM 545
(Issue 4, 19 December 2019 replacement
of SMM 545 dated 3 November 2018)

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Mechanical Testing on Welded Steel (Continue)		BS EN ISO 15614-6: 2006 / ISO 15614-6:2006 Clause 8.4.2: BS EN ISO 4136: 2012 Clause 8.4.3: BS EN ISO 5173: 2010 + A1: 2011 Clause 8.4.4: BS EN ISO 17639: 2013 Clause 8.4.5: BS EN ISO 9017: 2018
		BS EN ISO 9606-1: 2017 / ISO 9606-1: 2017 Clause 6.5.2.1: BS EN ISO 9017: 2018 Clause 6.5.2.3: BS EN ISO 5173: 2010 + A1: 2011
		BS 4515-1: 2009 Clause 8.3.2.2: BS EN ISO 4136: 2013 Clause 8.3.2.4: BS EN ISO 17639: 2013
		BS 4515-2: 1999 Clause 8.5.2.3.2: BS EN ISO 17639: 2013

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Schedule

Issue date: 19 December 2019
Valid until: 2 February 2021



NO: SAMM 545
(Issue 4, 19 December 2019 replacement
of SAMM 545 dated 3 November 2018)

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Mechanical Testing on Non-Welded Steel	Tensile Test Up to 200 tons	ASTM A370: 2017a ASTM E8: 2016a BS EN ISO 6892-1: 2016 / ISO 6892-1: 2016 BS EN 10025-1: 2004 MS EN 10025-1: 2011 MS EN 10025-2: 2011 JIS Z 2241: 2011
	Through Thickness Test	ASTM A770: 03(2018) BS EN 10164: 2004
	Charpy Impact Test (Ambient to minus 196°C)	ASTM A370: 2017a ASTM E23: 2018 BS EN ISO 148-1: 2016 / ISO 148-1: 2016
	Vickers Hardness Test (0.2 to 20 kgf Load)	ASTM A370: 2017a ASTM E384: 2017 ASTM E92: 2017 BS EN ISO 6507-1: 2018 / ISO 6507-1: 2018 JIS Z 2244: 2009
	Bend Test	ASTM E290: 2014 BS EN ISO 7438: 2016 / ISO 7438 : 2016 JIS G 3444: 2015
	Macro Etch Examination (Up to 20X Magnification)	ASTM E381: 2017 ASTM E340: 2015
	Flaring Test	ASTM A370: 2017a ASTM A450: 2018a BS EN ISO 8493: 2004 / ISO 8493: 1998 BS EN ISO 8495: 2013 / ISO 8495: 2013 ABS Rules (Chapter 5, Section 8)
	Flattening	ASTM A370: 2017a ASTM A450: 2018a BS EN ISO 8492 : 2013 / ISO 8492 : 2013 JIS G 3444 : 2015
	Brinell Hardness Test	ASTM A370: 2017a ASTM E10: 2018 BS EN ISO 6506-1: 2014 / ISO 6506-1 : 2014
	Rockwell Hardness	ASTM A370: 2017a ASTM E18: 2018a BS EN ISO 6508-1: 2016 / ISO 6508-1 : 2016

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Schedule

Issue date: 19 December 2019
Valid until: 2 February 2021



NO: SAMM 545

(Issue 4, 19 December 2019 replacement of SAMM 545 dated 3 November 2018)

Page: 4 of 8

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Mechanical Testing on Bolts and Nuts	Tensile Test (Up to M36)	ASTM A370: 2017a ISO 898-1: 2013 / BS EN ISO 898-1: 2013 ISO 898-2: 2012 / BS EN ISO 898-2: 2012 ASTM F606/F606M: 2016
	Proof Load Test (Up to M36)	ISO 898-1: 2013 / BS EN ISO 898-1 : 2013 ISO 898-2: 2012 / BS EN ISO 898-2: 2012
	Charpy Impact Test (Ambient to Minus 196°C)	ASTM A370: 2017a ASTM E23: 2018 BS EN ISO 148-1: 2016 / ISO 148-1: 2016
	Vickers Hardness Test (0.2 to 20 kgf Load)	ASTM A370: 2017a ASTM E384: 2017 ASTM E92: 2017 BS EN ISO 6507-1: 2018/ ISO 6507-1: 2018
	Shear Stress Test	ASTM F606/F606M: 2016 (Clause 3.8) ASTM A394: 08 (2015) (Clause 11.2)

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Schedule

Issue date: 19 December 2019
Valid until: 2 February 2021



NO: SAMM 545

(Issue 4, 19 December 2019 replacement of SAMM 545 dated 3 November 2018)

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Material Analysis Low Alloy Steel Stainless Steel Duplex Steel	Material Composition (Optical Emission Spectrometer Method)	ASTM E415: 2017 ASTM E1086: 2014 BS EN 10025-1 : 2004
Corrosion Test Stainless Steel Duplex Steel Nickel-Based Steel	Intergranular Corrosion Test Pitting Test	ASTM A262: 2015 (Practice E) ASTM G48: 2015 (Method A)
Metallography	Metallography / Microstructure Examination -Sample Preparation -Chemical Etching -Microstructure Image (100X ~ 500X) Ferrite Content Measurement (100X ~ 500X)	ASTM E3: 2011 (Reapproved 2017) ASTM E407: 07(2015)e1 BS EN ISO 17639: 2013 / ISO 17639: 2013 ISO/TR 16060: 2003 ASTM E562: 2011
Mechanical Test on Automobile Part	Welding Penetration Force Breakaway Test	DTSH5603G: 2006 MMC-ES-X75011: 2000 DTSB1503G: 2007 MMC-ES-X87010: 1992

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Note:

- a) DTS SPEC – Daihatsu Technical Standard
- b) MMC SPEC – Mitsubishi Motor Corporation

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Mechanical Test on Reinforcement Bar	Visual Inspection (Quality of Finished Steel)	MS 146: 2014 (Clause 7.2) BS 4449: 2005+A3: 2016 (Clause 7.2)
	Dimensions, Mass per Meter and Tolerance	MS 146: 2014 (Clause 7.4) BS 4449: 2005+A3: 2016 (Clause 7.3) MS ISO 15630-1: 2012 (Clause 12) BS EN ISO 15630-1: 2010 (Clause 12)
	Surface Geometry	MS 146: 2014 (Clause 7.5.2) BS 4449: 2005+A3: 2016 (Clause 7.4.2) MS ISO 15630-1: 2012 (Clause 10) BS EN ISO 15630-1: 2010 (Clause 10)
	Fatigue Test	BS 4449: 2005+A3: 2016 (Clause 7.2.4) BS EN ISO 15630-1: 2010 (Clause 8) MS 146: 2014 (Clause 7.3.4) MS ISO 15630-1: 2012 (Clause 8) ISO 6935-2: 2015 (Clause 9.5) ISO 15630-1: 2010 (Clause 8)
	Tensile Test (Yield Strength, Ultimate Tensile Strength) Up to Y50	MS 146: 2014 (Clause 7.3.3) BS 4449: 2005+A3: 2016 (Clause 7.2.3) ASTM A1064/A1064M: 2018a BS EN ISO 6892-1: 2016 / ISO 6892-1: 2016 BS EN ISO 15630-1: 2010 (Clause 5) ISO 15630-1: 2010 (Clause 5)
	Bend Performance Test (Bend, Ageing & Re-bend Test)	MS 146: 2014 (Clause 7.3.5) BS 4449: 2005+A3: 2016 (Clause 7.2.5) ISO 6935-2: 2015 (Clause 8.2 & 8.3) MS ISO 15630-1: 2012 (Clause 7) BS EN ISO 15630-1: 2010 (Clause 6 & 7) ISO 15630-1: 2010 (Clause 6 & 7)
Mechanical Test on Welded Fabric	Dimensions, Mass Per Meter and Tolerance	MS 145: 2014 (Clause 7.3) MS ISO 15630-1: 2012 (Clause 12) BS EN ISO 15630-1: 2010 (Clause 12)
	Surface Geometry	MS 145: 2014 (Clause 8.1.2, 8.1.3.2) MS ISO 15630-1: 2012 (Clause 10) BS EN ISO 15630-1: 2010 (Clause 10)

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
	Tensile Test (Yield Strength, Ultimate Tensile Strength)	MS 145: 2014 (Clause 7.2.3) BS 4483: 2005 (Clause 7.2.3) BS EN ISO 6892-1: 2016 / ISO 6892-1: 2016 BS EN ISO 15630-1: 2010 (Clause 5) ISO 15630-1: 2010 (Clause 5) BS EN ISO 15630-2: 2010 / ISO 15630-2:2010
Mechanical Test on Welded Fabric (Continue)	Shear Strength Test (Ultimate Tensile Strength)	MS 145: 2014 (Clause 7.2.4) BS 4483: 2005 (Clause 7.2.4) BS EN ISO 15630-1: 2010 (Clause 5) ISO 15630-1: 2010 (Clause 5) BS EN ISO 15630-2: 2010 / ISO 15630-2:2010
	Bend Performance Test (Bend, Ageing & Re-bend Test)	MS 145: 2014 (Clause 7.2.5) BS 4483: 2005 (Clause 8.1.3.2) BS EN ISO 15630-2: 2010 (Clause 6)
Mechanical Test on Steel Wire	Visual Inspection (Quality of Finished Steel)	MS 144: 2014 (Clause 8.1.2.2) BS 4482: 2005 (Clause 7.2)
	Dimensions, Mass Per Meter and Tolerance	MS 144: 2014 (Clause 7.3) BS 4482: 2005 (Clause 7.3) MS ISO 15630-1: 2012 (Clause 12) BS EN ISO 15630-1: 2010 (Clause 12)
	Surface Geometry	MS 144: 2014 (Clause 7.4.2) BS 4482: 2005 (Clause 7.4.2) MS ISO 15630-1: 2012 (Clause 10) BS EN ISO 15630-1: 2010 (Clause 10)
	Tensile Test (Yield Strength, Ultimate Tensile Strength) Up to 12mm nominal diameter.	MS 144: 2014 (Clause 7.2.3) BS 4482: 2005 (Clause 7.2.3) ASTM A1064/A1064M: 2018a BS EN ISO 6892-1: 2016 / ISO 6892-1: 2016 BS EN ISO 15630-1: 2010 (Clause 5) ISO 15630-1: 2010 (Clause 5)
	Bend Performance Test (Bend, Ageing & Re-bend Test)	MS 144: 2014 (Clause 7.2.4) BS 4482: 2005 (Clause 7.2.4) MS ISO 15630-1: 2012 (Clause 7) BS EN ISO 15630-1: 2010 (Clause 6 & 7)

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Mechanical Test on Reinforcement Coupler for Mechanical Splice of Bars	Fatigue Test	ISO 15835-1: 2009 (Clause 5.4) ISO 15835-2: 2009 (Clause 5.5) ISO 15630-1: 2010 (Clause 8)
	Tensile Test	ISO 15835-1: 2009 (Clause 5.2) ISO 15835-2: 2009 (Clause 5.3) BS EN ISO 15630-1: 2010 (Clause 5) ISO 15630-1: 2010 (Clause 5) BS EN ISO 6892-1: 2016 / ISO 6892-1: 2016
	Slip Test	ISO 15835-1: 2009 (Clause 5.3) ISO 15835-2: 2009 (Clause 5.4)

Signatories:

- | | | |
|----|---------------------------|---|
| 1. | Mohd Diah bin Baba | Mechanical Test (All), Material Analysis, Corrosion Test, Metallography |
| 2. | Zaidi bin Ali | Mechanical Test (all), Material Analysis, Corrosion Test |
| 3. | Salina binti Saidin | Mechanical Test (Hardness, Reinforcement Bar, Welded Fabric, Steel Wire and Reinforcement Coupler), Material Analysis, Corrosion Test, Metallography |
| 4. | Sarwani bin Mahpoz | Mechanical Test (All) |
| 5. | Norhidayah binti Saidon | Mechanical (Welded Steel, Non-Welded Steel, Reinforcement Bar, Welded Fabric, Steel Wire and Reinforcement Coupler), Material Analysis, Corrosion Test, Metallography |
| 6. | Artikah binti Meor Radhi | Mechanical Test (Hardness, Reinforcement Bar, Welded Fabric, Steel Wire and Reinforcement Coupler) |
| 7. | Muhammad Fauzi bin Yaakob | Mechanical Test (Hardness, Reinforcement Bar, Welded Fabric, Steel Wire and Reinforcement Coupler) |

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S/N: 0714



STANDARDS
MALAYSIA

Certificate of Accreditation

No: SAMM 548

Accredited since: 10 February 2012

This is to certify that

METROLOGY DIVISION
NUSANTARA TECHNOLOGIES SDN. BHD.
SHAH ALAM, SELANGOR
MALAYSIA



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has been granted accreditation in respect of the scope of accreditation described in the schedule, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia* (SAMM), the Laboratory Accreditation Scheme of Malaysia.

Laboratories accredited under SAMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).



(DATUK FADILAH BAHARIN)
Director General
Department of Standards Malaysia

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LABORATORY LOCATION: (PERMANENT LABORATORY)



**METROLOGY DIVISION
NUSANTARA TECHNOLOGIES SDN. BHD.
NO 9, JALAN SUNGAI JERLUH 32/196
BUKIT KEMUNING, SEKSYEN 32
40460 SHAH ALAM
SELANGOR, MALAYSIA**

FIELDS OF CALIBRATION:

**PRESSURE, MASS, TORQUE, DIMENSIONAL,
TEMPERATURE & ELECTRICAL**

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

* The expanded uncertainties are based on an estimated confidence probability of approximately 95% and have a coverage factor of $k=2$ unless stated otherwise.

SCOPE OF CALIBRATION: PRESSURE

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Pressure gauge Pressure recorder Pressure measuring device	Hydraulic 10 psi to 16000 psi (100 kPa to 120000 kPa) (0.689 bar to 1102 bar)	0.03 % of reading	Calibration procedure: NT- MET-CP-01P Reference standard: BS EN 837-1:1998
	16000 psi to 36000 psi	47 psi	
Pneumatic 0 to 300 psi (0 to 20 bar)	0.2 psi		
Vacuum gauge	0 to -13.7 psi (0 to -0.95 bar)	0.2 psi	

Signatories:

1. Hairul Jefni Hisham bin Haironi
2. Nazaruddin Rahmat Muji bin Mohamed Razali

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SCOPE OF CALIBRATION: PRESSURE

SITE: CATEGORY I

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Pressure measuring device Hydraulic	0 psi to 2400 psi 2400 psi to 9000 psi 9000 psi to 36000 psi	1.8 psi 3.2 psi 47 psi	Calibrate by using pressure calibrator
Pneumatic	0 psi to 300 psi	0.6 psi	
Vacuum	-13.7 psi to 0 psi (-0.95 bar to 0 bar)	0.2 psi (0.013 bar)	

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Signatories:

1. **Hairul Jefni Hisham bin Haironi**
2. **Nazaruddin Rahmat Muji bin Mohamed Razali**
3. **Muhammad Asyraf Bin Norudin**

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SCOPE OF CALIBRATION: MASS

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Standard weights	1 g	0.17 mg	Calibrate by comparison against reference standard weights based on OIML R-111-2:2004
	2 g	0.19 mg	
	5 g	0.23 mg	
	10 g	0.27 mg	
	20 g	0.32 mg	
	50 g	0.56 mg	
	100 g	4.2 mg	
	200 g	4.3 mg	
	500 g	0.022 g	
	1 kg	0.023 g	
	2 kg	0.033 g	
	5 kg	0.051 g	
	10 kg	0.093 g	
20 kg	0.16 g		

Signatories:

1. Hairul Jefni Hisham bin Haironi
2. Dzul Nurhafizah binti Zakaria

SCOPE OF CALIBRATION: MASS

SITE: CATEGORY I

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Weighing balances / scales	Up to 15 kg	0.33 g	Calibrate by using reference weights

Signatories:

1. Hairul Jefni Hisham bin Haironi
2. Dzul Nurhafizah binti Zakaria

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SCOPE OF CALIBRATION: TORQUE

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Torque tool device	0 to 30 Nm Above 30 Nm to 100 Nm Above 100 Nm to 180 Nm Above 180 Nm to 300 Nm Above 300 Nm to 800 Nm	0.7 Nm 2.1 Nm 1.3 Nm 1.9 Nm 5.0 Nm	Calibrate by using torque calibrator based on ISO 6789:2017

Signatories:

1. Hairul Jefni Hisham bin Haironi
2. Muhammad Asyraf Bin Norudin

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SCOPE OF CALIBRATION: DIMENSIONAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Caliper (External)	Up to 150 mm 150 mm to 300 mm 300 mm to 600 mm	6 μ m 6 μ m 12 μ m	Calibrated by using caliper checker and gauge block as standards based on JIS B 7507:2016
External micrometer	Up to 25 mm 25 mm to 50 mm 50 mm to 75 mm 75 mm to 100 mm 100 mm to 125 mm 125 mm to 150 mm 150 mm to 175 mm 175 mm to 200 mm 200 mm to 225 mm 225 mm to 250 mm 250 mm to 275 mm	1 μ m 1 μ m 2 μ m 2 μ m 2 μ m 2 μ m 2 μ m 2 μ m 2 μ m 2 μ m 2 μ m	Calibrated by using gauge block as standards based on JIS B 7502:2016
Dial gauge	Up to 100 mm (resolution: 0.01 mm) Up to 5 mm (resolution: 0.001 mm) Up to 5 mm (resolution: 0.005 mm)	3 μ m 0.4 μ m 2 μ m	Calibrated by using i-checker as standards based on JIS B 7503:2017
Dial test indicator	Up to 1 mm	0.7 μ m	Calibrated by using i-checker as standards based on JIS B 7533:2015
Height gauge	Up to 150 mm 150 mm to 300 mm 300 mm to 600 mm	7 μ m 8 μ m 12 μ m	Calibrated by using caliper checker and gauge block as standards based on JIS B 7517:2018

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Signatories:

1. **Hairul Jefni Hisham bin Haironi**
2. **Dzul Nurhafizah binti Zakaria**

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SCOPE OF CALIBRATION: TEMPERATURE

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Temperature sensors with indicators	-20 °C to 150 °C 150 °C to 600 °C	0.10 °C 0.81 °C	By comparison method using SPRT with Thermometer Readout / Field Metrology Well / Furnace
Temperature sensors without indicators	-20 °C to 150 °C 150 °C to 400 °C 400 °C to 600 °C	0.66 °C 0.93 °C 1.2 °C	By comparison method using SPRT with Thermometer Readout / Field Metrology Well / Furnace / BEAMEX MC2
Radiation thermometer	-15 °C to 0 °C 0 °C to 120 °C 121 °C to 199 °C 200 °C to 299 °C 300 °C to 500 °C	3.1 °C 3.1 °C 3.2 °C 3.4 °C 3.6 °C	Calibrated by using Infrared Calibrator based on ASTM E 1256:2007

Signatory:

1. **Muhammad Asyraf Bin Norudin**

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SCOPE OF CALIBRATION: TEMPERATURE

SITE: CATEGORY I

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Temperature controlled enclosures	350 °C to 600 °C 600 °C to 1200 °C	2.2 °C 3.1 °C	Calibrate by using temperature recorder with thermocouple based on AS 2853:1986

Signatory:

1. **Muhammad Asyraf Bin Norudin**

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SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
1. Measuring Instrument a) DC Voltage	(\pm polarity) 0 to 329.9 mV 330 mV to 3.299 V 3.3 V to 32.99 V 33 V to 329.99 V 330 V to 1020 V	26 μ V/V + 1.5 μ V 14 μ V/V + 4.1 μ V 15 μ V/V + 39 μ V 21 μ V/V + 0.5 mV 22 μ V/V + 2 mV	Generation using calibrator Fluke 5522A
b) AC Voltage	1 mV to 1000 V	See Matrix A	

Matrix A: AC Voltage Measurement

Range	10 Hz to 45 Hz	45 Hz to 10 kHz	10 kHz to 20 kHz	20 kHz to 50 kHz	50 kHz to 100 kHz	100 kHz to 450 kHz
1.0 mV to 29.9 mV	1.1 mV/V + 7.2 μ V	0.41 mV/V + 7.4 μ V	0.46 mV/V + 7.3 μ V	1.4 mV/V + 8.1 μ V	4.4 mV/V + 15 μ V	-
30 mV to 329.9mV	0.37 mV/V + 10 μ V	0.19 mV/V + 12 μ V	0.21 mV/V + 11 μ V	0.43 mV/V + 12 μ V	1.0 mV/V + 39 μ V	2.5 mV/V + 92 μ V
0.33 V to 2.99 V	0.36 mV/V + 73 μ V	0.20 mV/V + 93 μ V	0.24 mV/V + 90 μ V	0.36 mV/V + 81 μ V	0.84 mV/V + 0.17 mV	3.0 mV/V + 0.86 mV
3 V to 29.9 V	0.37 mV/V + 0.88 mV	0.20 mV/V + 92 μ V	0.30 mV/V + 0.85 mV	0.42 mV/V + 0.94 mV	1.1 mV/V + 2.2 mV [1]	-
30 V to 329.9 V	0.25 mV/V + 2.7 mV	0.25 mV/V + 8.1 mV	-	-	-	-
330 V to 1000 V	0.35 mV/V + 17 mV	0.35 mV/V + 15 mV [2]	-	-	-	-

[1] Frequency up to 90 kHz

[2] Frequency range up to 8 kHz

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SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
1. Measuring Instrument (cont.) c) Resistance	0 to 10.9 Ω 10.9 Ω to 33 Ω 33 Ω to 109 Ω 109 Ω to 330 Ω 330 Ω to 1.09 k Ω 1.09 k Ω to 3.3 k Ω 3.3 k Ω to 10.9 k Ω 10.9 k Ω to 33 k Ω 33 k Ω to 109 k Ω 109 k Ω to 330 k Ω 330k to 1.09 M Ω 1.09 M Ω to 3.3 M Ω 3.3 M Ω to 10.9 M Ω 10.9 M Ω to 33 M Ω 33 M Ω to 109 M Ω 109 M Ω to 330 M Ω 330 M Ω to 1090 M Ω	150 $\mu\Omega/\Omega$ + 1.1 m Ω 86 $\mu\Omega/\Omega$ + 1.3 m Ω 47 $\mu\Omega/\Omega$ + 1.7 m Ω 39 $\mu\Omega/\Omega$ + 1.8 m Ω 35 $\mu\Omega/\Omega$ + 2.7 m Ω 39 $\mu\Omega/\Omega$ + 8.9 m Ω 35 $\mu\Omega/\Omega$ + 32 m Ω 39 $\mu\Omega/\Omega$ + 95 m Ω 35 $\mu\Omega/\Omega$ + 0.33 Ω 44 $\mu\Omega/\Omega$ + 0.74 Ω 39 $\mu\Omega/\Omega$ + 0.28 Ω 0.08 m Ω/Ω + 0.28 Ω 0.15 m Ω/Ω + 0.73 Ω 0.38 m Ω/Ω + 0.18 k Ω 0.60 m Ω/Ω + 0.43 k Ω 3.9 m Ω/Ω + 96 k Ω 18 m Ω/Ω + 0.56 M Ω	Generation using calibrator Fluke 5522A and using decade resistance box
d) Capacitance	220 pF to 399.9 pF 0.4 nF to 1.0999 nF 1.1 nF to 3.2999 nF 3.3 nF to 10.999 nF 11 nF to 32.999 nF 33 nF to 109.99 nF 110 nF to 329.99 nF 0.33 μ F to 1.0999 μ F 1.1 μ F to 3.2999 μ F 3.3 μ F to 10.999 μ F 11 μ F to 32.999 μ F 33 μ F to 109.99 μ F 110 μ F to 329.99 μ F 0.33 mF to 1.099 mF 1.1 mF to 3.299 mF 3.3 mF to 10.999 mF 11 mF to 32.999 mF 33 mF to 110 mF	37 mF/F + 13 pF 17 mF/F + 13 pF 9.6 mF/F + 12 pF 4.0 mF/F + 14 pF 3.4 mF/F + 17 pF 3.2 mF/F + 25 pF 3.0 mF/F + 46 pF 4.0 mF/F + 1.1 nF 4.2 mF/F + 2.7 nF 4.0 mF/F + 5.6 nF 5.9 mF/F + 29 nF 6.5 mF/F + 88 nF 6.4 mF/F + 0.31 μ F 6.2 mF/F + 1.2 μ F 6.1 mF/F + 3.5 μ F 6.2 mF/F + 11 μ F 9.5 mF/F + 34 μ F 14 mF/F + 0.12 mF	Generation using calibrator Fluke 5522A
e) Frequency	0 to 199.99 Hz 120 Hz to 1199.9 Hz 1.2 kHz to 11.99 kHz 12 kHz to 119.9 kHz 120 kHz to 500 kHz	0.61 μ Hz/Hz + 24 μ Hz 0.13 μ Hz/Hz + 13 μ Hz 1.1 μ Hz/Hz + 13 mHz 58 μ Hz/Hz + 0.58 mHz 1.1 μ Hz/Hz + 0.58 Hz	

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SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
1. Measuring Instrument (cont.) f) DC Current	0 to 329 μ A 329 μ A to 3.29 mA 3.29 mA to 32.9 mA 32.9 mA to 329 mA 0.33 A to 2.99 A 3.0 A to 20.5 A	0.24 mA/A + 23 nA 0.13 mA/A + 67 nA 0.21 mA/A + 5.1 μ A 0.13 mA/A + 3.8 μ A 0.45 mA/A + 76 μ A 1.2 mA/A + 0.86 mA	Generation using calibrator Fluke 5522A
g) AC Current	<u>29 μA to 20.5 A</u>	(see Matrix B)	

Matrix B: AC Current Measurement

Range	10 Hz to 20 Hz	20 Hz to 45 Hz	45 kHz to 1 kHz	1 kHz to 5 kHz	5 kHz to 10 kHz	10 kHz to 30 kHz
33 μ A to 329 μ A	2.7 mA/A + 0.11 μ A	2.1 mA/A + 0.11 μ A	1.8 mA/A + 0.11 μ A	4.0 mA/A + 0.18 μ A	9.9 mA/A + 0.22 μ A	20 mA/A + 0.46 μ A
329 μ A to 3.29 mA	2.3 mA/A + 0.25 μ A	1.5 mA/A + 0.29 μ A	1.2 mA/A + 0.32 μ A	2.3 mA/A + 0.32 μ A	5.8 mA/A + 0.41 μ A	12 mA/A + 0.94 μ A
3.29 mA to 32.9 mA	2.1 mA/A + 2.6 μ A	1.1 mA/A + 2.8 μ A	0.54 mA/A + 3.2 μ A	1.0 mA/A + 3.1 μ A	2.4 mA/A + 4.6 μ A	4.7 mA/A + 8.1 μ A
32.9 mA to 329 mA	2.1 mA/A + 26 μ A	1.1 mA/A + 29 μ A	0.54 mA/A + 32 μ A	1.3 mA/A + 63 μ A	2.7 mA/A + 13 mA	5.4 mA/A + 0.27 mA
0.33 A to 1.099 A	2.2 mA/A + 0.32 mA	2.2 mA/A + 0.32 mA	0.89 mA/A + 0.51 mA	7.9 mA/A + 1.2 mA	34 mA/A + 5.8 mA	-
1.1 A to 2.999 A	2.1 mA/A + 0.38 mA	2.1 mA/A + 0.38 mA	0.80 mA/A + 0.69 mA	7.2 mA/A + 1.2 mA	31 mA/A + 5.3 mA	-
3 A to 10.999 A	0.94 mA/A + 3.1 mA	0.94 mA/A + 3.1 mA	1.4 mA/A + 2.9 mA	35 mA/A + 2.4 mA	-	-
11 A to 20.5 A	1.7 mA/A + 6.3 mA	1.7 mA/A + 6.3 mA	2.0 mA/A + 6.2 mA	35 mA/A + 5.8 mA	-	-

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SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
2. Current Clamp DC Current (50 turn coil) AC current (50 turn coil)	10 A to 16 A 16 A to 150 A 150 A to 1000 A	0.40 mA/A + 5.6 mA 0.59 mA/A + 49 mA 1.3 mA/A + 0.33 A	Generation using Fluke 5522A with Fluke 5500A coil
	10 A to 16 A 45 Hz to 65 Hz 65 Hz to 440 Hz	3.6 mA/A + 4.6 mA 9.7 mA/A + 1.5 mA	
	16 A to 150 A 45 Hz to 65 Hz 65 Hz to 440 Hz	3.7 mA/A + 42 mA 10 mA/A + 47 mA	
	150 A to 1000 A 45 Hz to 65 Hz 65 Hz to 440 Hz	3.6 mA/A + 0.3 A 15 mA/A + 0.26 A	
3. Insulation Resistance	0.1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω 100 M Ω to 1 G Ω 1 G Ω to 10 G Ω 10 G Ω to 100 G Ω 100 G Ω to 1 T Ω 1 T Ω to 10 T Ω	58 m Ω / Ω + 18 m Ω 81 m Ω / Ω + 80 m Ω 0.58 m Ω / Ω + 0.57 Ω 0.81 m Ω / Ω + 5.2 Ω 0.80 m Ω / Ω + 51 Ω 2.3 m Ω / Ω + 0.29 k Ω 2.3 m Ω / Ω + 2.9 k Ω 2.4 m Ω / Ω + 51 k Ω 1.3 m Ω / Ω + 0.41 M Ω 3.1 m Ω / Ω + 2.3 M Ω 6.6 m Ω / Ω + 12 M Ω 7.5 m Ω / Ω + 0.11 G Ω 37 m Ω / Ω + 0.22 G Ω	Direct Measurement using Yokogawa 2793-01,2793-03 and IET HRRS- 5kV and IET HRRS-10kV High Voltage- High Resistance Decade Substituter

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Schedule

Issue date: 29 December 2019
Valid until: 10 February 2021



NO: SAMM 548

(Issue 2, 29 December 2019 replacement of SAMM 548 dated 29 January 2018)

SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
4. Generating Instruments a) DC Voltage	0 to 100 mV	0.12 mV/V + 7.3 μ V	Measuring using Fluke 8845A
	100 mV to 1 V	79 μ V/V + 55 μ V	
1 V to 10 V	74 μ V/V + 0.54 mV		
10 V to 100 V	83 μ V/V + 5.6 mV		
100 V to 1000 V	86 μ V/V + 29 mV		
b) AC Voltage	See Matrix C		

Matrix C: AC Voltage Generation

Range	3 Hz to 5 Hz	5 Hz to 10 Hz	10 Hz to 5 kHz	5 kHz to 20 kHz	20 kHz to 50 kHz	50 kHz to 100 kHz	100 kHz to 300 kHz
0 to 100 mV	16 mV/V + 60 μ V	11 mV/V + 56 μ V	1.5 mV/V + 60 μ V	1.5 mV/V + 60 μ V	2.6 mV/V + 75 μ V	10 mV/V + 0.12 mV	67 mV/V + 0.75 mV
100 mV to 1 V	15 mV/V + 0.45 mV	11 mV/V + 0.42 mV	1.4 mV/V + 0.45 mV	1.4 mV/V + 0.45 mV	2.6 mV/V + 0.75 mV	10 mV/V + 1.2 mV	67 mV/V + 7.5 mV
1 V to 10 V	15 mV/V + 4.5 mV	11 mV/V + 4.2 mV	1.4 mV/V + 4.5 mV	1.4 mV/V + 4.5 mV	2.6 mV/V + 7.5 mV	10 mV/V + 12 mV	67 mV/V + 75 mV
10 V to 100 V	15 mV/V + 45 mV	11 mV/V + 42 mV	1.4 mV/V + 45 mV	1.4 mV/V + 45 mV	2.6 mV/V + 75 mV	10 mV/V + 0.12 V	-
100 V to 750 V	43 mV/V + 0.56 V	41 mV/V + 0.53 V	4.0 mV/V + 0.30 V	1.4 mV/V + 0.34 V	2.5 mV/V + 0.56 V	10 mV/V + 0.90 V	-

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SCOPE OF CALIBRATION: ELECTRICAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
4. Generating Instruments (cont.)			
c) Resistance	10 Ω to 100 Ω 100 Ω to 1 k Ω 1 k Ω to 10 k Ω 10 k Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω	0.16 m Ω / Ω + 5.9 m Ω 0.13 m Ω / Ω + 25 m Ω 0.13 m Ω / Ω + 0.25 Ω 0.13 m Ω / Ω + 2.5 Ω 1.1 m Ω / Ω + 1.1 k Ω 1.2 m Ω / Ω + 11 k Ω 9.3 m Ω / Ω + 49 k Ω	Measuring using Fluke 8845A
d) DC Current	0 to 100 μ A 100 μ A to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	0.92 mA/A + 42 nA 0.85 mA/A + 0.53 μ A 0.80 mA/A + 2.5 μ A 0.63 mA/A + 9.6 μ A 1.0 mA/A + 0.51 mA 1.9 mA/A + 3.0 mA	
e) AC Current	see Matrix D		
f) Frequency	0 to 5 Hz 5 Hz to 10 Hz 10 Hz to 40 Hz 40 Hz to 300 kHz	1.6 mHz/Hz + 5.2 mHz 0.80 mHz/Hz + 4.5 mHz 0.37 mHz/Hz + 4.6 mHz 3.2 mHz/Hz + 0.95 kHz	

Matrix D: AC Current Generation

Range	5 Hz to 10 Hz	10 Hz to 5 kHz	5 kHz to 10 kHz
0 to 10 mA	5.1 mA/A + 18 μ A	2.6 mA/A + 12 μ A	12 mA/A + 82 μ A
10 mA to 100 mA	4.3 mA/A + 0.17 mA	2.2 mA/A + 0.15 mA	5.9 mA/A + 0.40 mA
100 mA to 400 mA	-	20 mA/A + 0.27 mA	76 mA/A + 0.81 mA
0.4 A to 1 A	-	7.2 mA/A + 0.27 mA	32 mA/A + 30 mA
1 A to 3 A	-	4.6 mA/A + 12 mA	32 mA/A + 24 mA
3 A to 10 A	-	2.7 mA/A + 12 mA	-

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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
5. High Voltage Generation a) DC Voltage	0.5 kV to 10 kV	6.0 mV/V + 5.5 mV	Measuring using Kikusui 149-10A High Voltage meter
b) AC Voltage at 50 Hz	0.5 kV to 10 kV	12 mV/V + 13 mV	

Signatories:

1. Hairul Jefni Hisham bin Haironi
2. Muhammad Asyraf Bin Norudin

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**EXPERIENCES
&
PAST PROJECT
UNDERTAKEN**

LIST OF PAST PROJECTS UNDERTAKEN – NDT DIVISION

No.	Client	Period	Services Offered	Project Undertaken
1.	Malaysia Refinery Company Sdn Bhd (MRC SB)	Nov-Dec 2019	RT	Radiography Testing for PSR2 & MG3 Turnaround Delima Piping for Melaka Refinery Diesel Euro 5 Project
2.	Muhibbah Steel Industries Sdn Bhd	Jun 2019	UT, MT, PT	UT for structural & piping for AGRU Project Multitech (UT MT PT) for piping at Telok Gong Workshop
3.	Ocean Pro Offshore Sdn Bhd	Jan 2019	MPI, Load Test	MPI & Load Test at Shah Alam
4.	Powermatics Hydraulic & Engineering (M) Sdn Bhd	Jan to Nov 2019	UT, MT	UT, MT for fabrication at PHESB workshop Shah Alam
5.	Bredero (M) Sdn Bhd	Jan - Nov 2019	UT, MT	UT, MT for structural & piping at Kemaman workshop
6.	Solar Alert Sdn Bhd	Jan, Mac, Apr, May 2019	RT, MT & UT	UT, MT for Temana Riser 243 UT for JVPC Riser 278 RT, MT for Weco Union project MT, UT for Baronia 10K-Riser 202 project MPI for Shell F14 MPI for Skid Y Block Anjung Gas UT, MT for Riser 275/276 Pulau UT for Riser D18 & Hibiscus MT, UT for Ophir Riser 266 project
7.	TS Tech Engineering Sdn Bhd Sdn Bhd	Apr 2019	Load Test & MPI	Load Test & MPI at Nusatek lab.
8.	Malakoff Power Berhad	Mac 2019	Eddy Current Test	ECT for SEV Block 2 Steam Condenser's Tubes
9.	Trouvay & Couvin Gulf B.S.C (c) Jebel Ali Branch	Jan 2019	UTT G	UTT G at PKFZ workshop for SOHTA Project
10.	TS& T Capital Sdn Bhd	Jan, Apr & Nov 2019	RT, UTFD & MPI	RT & UTFD for Sapura HQ Towers at KLCC
11.	Petrochemical and Power Plant Services Sdn Bhd	Jan, Mac, Jul & Oct 2019	RT	Gamma-ray RT for welded pipes/plates at Kapar Energy Venture, Klang
12.	Petra Fabricators Sdn Bhd	Jan 2019-present	UT, MT, PT, RT	UT, MT, PT, RT for piping & structure at Petra Workshop Rawang
13.	Seremban Engineering Berhad	Jan 2019-present	RT, UTM, UTFD	NDT for piping joints at Seremban fab. workshop
14.	Bukit Fraser Thermal Technology Sdn Bhd	Jan 2019-present	RT, UT, MT, PT, HT	NDT for piping at Rawang workshop
15.	Tenaga Tiub Sdn Bhd	Jan to 2019-present	RT, PT, MT, UT	NDT For Structural & Piping at Nilai workshop
16.	Chip Ngai Engineering Works Sdn Bhd	Jan 2019-present	RT, PT, MT, UT, HT	NDT for WPS test coupon at Seri Kembangan workshop

No.	Client	Period	Services Offered	Project Undertaken
17.	Pisces Sdn Bhd	Jan 2019-present	RT, UT, MT	NDT for test coupon at Klang Workshop
18.	Great Vision Solution Sdn Bhd	Jan 2019 to present	MT, PT	MT, PT at Klang & Ipoh workshop
19.	Petra Fabricators Sdn Bhd	Jan-Dec 2018	UT, MT, PT, RT	UT, MT, PT, RT for piping & structure at Petra Workshop Rawang
20.	Bukit Fraser Thermal Technology Sdn Bhd	Jan-Dec 2018	RT, UT, MT, PT, HT	NDT for piping at Rawang workshop
21.	Tenaga Tiub Sdn Bhd	Jan-Dec 2018	RT, PT, MT, UT	NDT at Nilai workshop
22.	Chip Ngai Engineering Works Sdn Bhd	Jan-Dec 2018	RT, PT, MT, UT, HT	NDT for WPS test coupon at Seri Kembangan workshop
23.	Pisces Sdn Bhd	Jan-Dec 2018	RT, UT, MT	NDT for test coupon at Klang Workshop
24.	Bina Water Sdn Bhd	May 2018	RT	RT at Langat 2 Plant, Hulu Langat
25.	Tanjung Bin O&M Berhad	July 2018	UTM/ CB-SCAN	PF Pipe Elbow Thickness Measurement/CB-Scan for 165 pipes at U30 Mill A, B & C
26.	Tanjung Bin O&M Berhad	Feb. 2018	UTM/ CB-SCAN	PF Pipe Elbow Thickness Measurement/CB-Scan for 138 pipes at U10 Mill D & E
27.	Tanjung Bin O&M Berhad	Feb. 2018	MT, UTG	API 510 & NDT Inspector for Plant services & Maintenance at Tg. Bin Power Plant, Johor
28.	Malakoff Power Berhad	Feb. 2018	UT, PT	UT, PT for HRSG at PPSB Power Plant
29.	Tanjung Bin O&M Berhad	Jan. 2018	UTG	N-1-5 UTG at Burner Outer Sleeve A/B/C/D/E, at Tg. Bin Power Plant, Johor
30.	Malakoff Power Berhad	Nov. 2017	DPT, UTG	NDT for Pressure Vessel Inspection at Segari
31.	Tenaga Tiub Sdn Bhd	July 2017	UT, MPI	UT, MPI at Nilai workshop
32.	Petroleum Supplied and Equipment Sdn Bhd/Schlumberger	May 2017	UT, PT, MPI	UT, PT & MPI at Port Klang
33.	SGS (Malaysia) Sdn Bhd	Dec 2017	UTM, DPT	UTM, DPT at Emery, Telok Panglima Garang, Banting
34.	Ishawa Engineering Services Sdn Bhd	Dec 2017	UT, MPI	UT, MPI for piping at Ishawa workshop, Jalan Kebun Klang
35.	SVR Engineering Sdn Bhd	Dec 2017		MPI, UT for piping at SVR workshop Rawang
36.	Air Products Malaysia Sdn Bhd	December 2017	PAUT	PAUT AT Banting Hydrogen Plant
37.	Tanjung Bin O&M Berhad (Malakoff)	October 2017	PAUT	T-3-7 U30 PAUT Interpreter for Boiler Tube Repair at Tg. Bin Power Plant, Johor
38.	Malakoff Power Berhad	Nov 2017	MPI, UT, RT	MPI, UT, RT for SEV Block 1 Outage at Segari Plant
39.	Malakoff Power Berhad	May 2017	UT, RT	RT, UT Flaw Detection on Bearing For ST24 Block Outage at Segari Plant

No.	Client	Period	Services Offered	Project Undertaken
40.	Chip Ngai Engineering Works Sdn Bhd	July 2017	ASME U-Stamp Review	ASME U-Stamp Review
41.	Yuen Fee (Wan Soon) Engineering Sdn Bhd	June 2017	PAUT	P17/005-U-PAUT(CS1) at Yuen Fee workshop
42.	Seremban Engineering Bhd	June 2017	ASME Stamp Review	ASME Review for RT, MT, PT, UT with Demo & Documentation
43.	Bauer Equipment (M) Sdn Bhd	April 2017	PAUT	PAUT on Kelly Square at Nusatek yard
44.	Valmont (Asia) Sdn Bhd/ IGC-Industrial Galvanizers Corp. (M) Sdn Bhd	April 2017	RT & PAUT	RT & PAUT on Kettle Wall at Nilai
45.	RWNA Engineering Sdn Bhd	Feb. 2017	ASME Stamp Review	Renewal of ASME U, U2, S and R Certificate
46.	Tenaga Tiub Sdn Bhd	Feb. 2017	ASME Stamp Review	ASME Review for RT, MT, PT, UT with Demo & Documentation
47.	Nizap Resources Sdn Bhd	March 2017	PAUT	PAUT AT Petronas Penapisan Trengganu
48.	NDE Consultancy Services	February 2017	PAUT	PAUT at Petronas Penapisan Melaka
49.	Petra Fabricators Sdn Bhd	May 2017	RT, UT, MT, PT	NDT for Heat Exchangers at Petra workshop (Project: PDO-Rabab-Harweel, Oman)
50.	Lysaght Galvanised Steel Berhad	Feb-Nov 2017	X-ray RT	RT for Welded Pipes at LGS workshop, Ipoh
51.	Petra Fabricators Sdn Bhd	Jan/Feb. 2017	RT, UT, MT, PT	NDT for Glycol Vent Condenser E-6240 at Petra Workshop (Project for SKP Thermal/Petronas Carigali)
52.	Petra Fabricators Sdn Bhd	Jan/Feb. 2017	RT, UT, MT, PT	NDT for Pressure Vessels at Petra Workshop for Brunei Shell Petroleum/Jahid S.B.
53.	Petra Fabricators Sdn Bhd	Jan.2017	RT, MT, UT, PT, Hardness Test	NDT for Compression Gas Scrubbers (Project: PCSB Semarang EOR)
54.	Synchong Hoe Engineering Sdn Bhd	Feb. 2017	ASME Stamp Review	ASME Review for RT, MT, PT, UT with Demo & Documentation
55.	Seremban Engineering Berhad	Jan. 2017	UT	UT for steel structure at Seremban workshop

No.	Client	Period	Services Offered	Project Undertaken
56.	Chow Steel Engineering (Rawang) Sdn Bhd	Jan. 2017	UT	UT for steel structure at Rawang workshop
57.	Kawan Engineering Sdn Bhd	Dec.2016	ASME Stamp Review	ASME Review for RT, MT, PT, UT with Demo & Documentation
58.	China Railway Infrastructure Corporation Sdn Bhd	October 2016	UT	NDT Inspection for Scissor Lift and Sling ay MRT 2, TUDM Sg. Besi
59.	Malakoff O&M Berhad	Dec. 2016	PAUT and ABI	PAUT and ABI examination on N-3-3B Header at Tg. Bin Johor
60.	NDE Consultancy Services	Feb.2016	PAUT	PAUT at Felda Vegetable Oil Products Sdn Bhd at Gebeng
61.	Tanjung Bin O&M Berhad	Sept – Oct.2015	PAUT, ABI, TOFD	J-3-2 U30 PAUT, ABI & TOFD services at Tanjung Bin, Johor
62.	Tanjung Bin O&M Berhad	Aug. 2015	CB Scan/ UTTM	J-3-2 U30 PF Pipe Thickness measurement at Tanjung Bin, Johor
63.	Malakoff Power Berhad	Sept. 2015	MT, UT	UT Flaw Detection at DDP Prai Power Plant
64.	NDE Consultancy Services Sdn Bhd	Jan 2015	PAUT	PAUT at Felda Vegetable Oil Products Sdn Bhd at Gebeng
65.	Bandak Malaysia Sdn Bhd	Dec 2014	PAUT	PAUT & MPI at Multi Fibre
66.	Chersonese Oil Sdn Bhd	Aug 2014	PAUT, MPI	PAUT, MPI at Clean Product Terminal at Chersonese Pulau Indah, Klang (CEPAT Project)
67.	Yuen Fee (Wan Soon) Engineering Sdn Bhd	July 2014	PAUT	PAUT on small lifting lugs at Yuen Fee Seremban
68.	KNM Exotic Equipment Sdn Bhd	June 2014	PAUT	PAUT on nozzle joints at KNM Gebeng
69.	Malakoff Power Berhad	Sept 2013	PT & UT	GT21 (Fan Blades) C-Inspection Work GT21
70.	TL Offshore Sdn Bhd	Oct – Jan 2013	TOFD & PAUT	Provision of Offshore NDT Services (Phased Array Ultrasonic) For EMEPMI
71.	PFC Engineering Sdn Bhd	2013	PAUT	PAUT For JDS Isolation Project at OGT - (PTSM 184) for TSM.
72.	Mset Engineering Corporation Sdn Bhd	June 2012	PAUT	M2194-Fresh Water Filter



PAST EXPERIENCE (MECHANICAL TESTING)

No.	Client	Period	Services Offered	Project Undertaken
1.	Aker Solutions Sdn Bhd	Nov 2019	Chemical & EDX Analysis	Chemical Analysis for Debris & EDX Analysis for suspected material
2.	Muhibbah Steel Industries Sdn Bhd	Nov –Dec 2019	Mechanical Test	Mechanical Testing on pipes & plates for Chendur Project
	Tenaga Tiub Sdn Bhd	Nov 2019	Replica, PMI & Hardness Test	In-situ Replica, PMI (OES) & Hardness (UCI) Test on Surface Fitted Flange of FPG Reactor R-501B Shell Cover
3.	True Features Corporation Sdn Bhd	Nov 2019	PMI, Hardness (MIC10)	PMI & Hardness Test for piping for T2306-AI Turki, T2328-Pegaga HYDAC & GASCO Project
		Oct 2019	Corrosion Test (G48) & Ferritecount	For DSS material for T2328-Vessel Pegaga Project
		Oct 2019	CVN	Charpy Impact Test for Metering Spool (for obsolete sales gas metering)
		Jul-Aug 2019	Mechanical test	For Tabung Haji CPP Offshore pipes project
		Aug 2019	Hardness MIC	Hardness Test (MOIC 10) for T2257 Debottleneck at TFC Puchong
		May 2019	IGC	Intergranular Corrosion Test ASTM A262 (Prac.E) for T2294 OGC -WPS
4.	Tuv Nord (m) Sdn Bhd	Oct 2019	PMI & Hardness MIC10	PMI Spectro & Hardness Test (MIC10) on CS materials at Miri, Sarawak
5.	Bukit Fraser Thermal Technology Sdn Bhd	Jan 2019-present	Mechanical Test & PMI	Mechanical Test & PMI on WPS & WQT at Nusatek lab
6.	Jutasama Sdn Bhd	Jan 2019-present	Mechanical Test & PMI	Mechanical Test & PMI on WPS & WQT at Nusatek lab
7.	Seremban Engineering Berhad	Jan-present	Mechanical testing	Mechanical test For WPS plates & pipes
8.	Pelantar Insan (M) Sdn Bhd	Jan 2019	Mechanical Test	For CS pipes & beams, Project : MRT 209
9.	Favelle Favco Cranes (M) Sdn Bhd	Jan- Dec 2019	Mechanical Test & PMI	Mechanical Test & PMI on WPS & WQT at Nusatek lab
10.	Jord Malaysia Sdn Bhd	Jan 2019-present	Mechanical Test & PMI	Mechanical Test & PMI at lab & site
11.	Syarikat Central Bolts & Nuts Sdn Bhd	Jan-present	Mechanical test	Proof Load Test for Bolt & Nut
12.	Top Glove Malaysia	2015-2019	Mech test	Breaking Load Test, Chemical Analysis for Conveyor Chains
13.	Petra Fabricators Sdn Bhd	Jan 2019-present	Mechanical Test & PMI	Mechanical Test & PMI on WPS & WQT at Nusatek lab
14.	Geolab (M) Sdn Bhd	Jan- Dec 2019	Mechanical Test	Mechanical Test on WPS
15.	Sediabena Builders Sdn Bhd	Jun – Dec 2019	Mechanical Test	For Bolts, Nuts & Washers – Project DPT 201, MRT 2 & LRT 3
16.	Misi Setia Oil & Gas Sdn Bhd	Jan- Dec 2019	Mechanical Test	Mechanical Test on WPS at lab



No.	Client	Period	Services Offered	Project Undertaken
17.	World Equipment Sdn Bhd	Jul – Sep 2019	Tensile & Chemical Analysis	For Bolts - FOX BSG –SOA & AVP Ride Project
18.	Zelleco Engineering (M) Sdn Bhd	Jul – Sep 2019	Mechanical test	For plates, Angle, Bolt & Nuts
19.	Tenaga Nasional Berhad/TNBR QATS	Aug 2018	Chemical analysis	For Reheater tubes Unit 2 (Jimah)
20.	Rohas Euco Industries Sdn Bhd	2017- 2019	Mechanical testing	For angle bolts & Nuts
21.	Taylor Wharton (M) Sdn Bhd	Jan – Oct 2018	Chemical analysis	For fabrication material
22.	Serba Dinamik Sdn Bhd	Jan-present 2019	Mechanical testing	On hard facing WPS
23.	Ribe Power Malaysia Sdn Bhd	Oct-Dec 2018	Chemical Analysis	For aluminum tubes
24.	Yuen Fee (Wan Soon) Engineering Sdn Bhd)	Jan-Dec 2018	Mechanical Test, PMI Test, Ferrite Test	Mechanical Test & Ferrite on plates & pipes at Nusatek
25.	Prored Energy Resources Sdn Bhd	Oct 2018	Mechanical test	For plates & flanges
26.	Tamco Switchgear (M) Sdn Bhd	Jan-Dec 2018	Mechanical testing	Pull Test
27.	Principle Perspective Engineering Sdn Bhd	Jan-Aug 2018	Mechanical testing	For welded & seamless pipes
28.	Sanyco Grand Industries Sdn Bhd	Aug 2018	Mechanical Testing	Tensile Test
29.	Hangxiao Steel Structure (M) Sdn Bhd	Mar-Sept 2017	Mechanical Test & PMI	Mechanical Test & PMI on WPS & WQT at Nusatek lab
30.	Amalgamated Metal	Jan-present 2019	Mechanical Test	Mechanical Test on WPS at lab
31.	Asia Bolts & Nuts Trading Sdn Bhd	Jan-present 2019	Mechanical Test	Mechanical Testing on Bolts, Nuts & Washers
32.	Automotive Industries Sdn Bhd	Jan-present 2019	Mechanical Test	Mechanical Test on automotive parts
33.	TNB Repair And Maintenance (REMACO)	Jan 2019	PMI Examination	PMI Spectro & XRF at TNB Remaco, Klang
34.	Rekind Malaysia Sdn Bhd	Jan-Sept 2018	Mechanical Test	Charpy Impact Test for Samur Project Sipitang
35.	Bumico Inspirasi Sdn Bhd	Jan-Sept 2018	Mechanical Test	Mechanical Test, Metallography & Ferrite at Nusatek lab.
36.	Alam Swiber Offshore (M) Sdn Bhd	Jan-Sept 2018	Mechanical Test	Mechanical Testing on WPS for TCOT Project
37.	Kuala Lumpur Valves & Fitting	Jan-present 2019	Mechanical test & PMI	Mechanical Test & PMI on valves & flanges
38.	Kumpulan Agresif Sdn Bhd	Jan-present 2019	Mechanical Test	Hardness Test & PMI Test on Ball valves & flanges
39.	Linatex Rubber Products Sdn Bhd	Jan-Sept 2018	Mechanical Test	Mechanical test on WPS
40.	Mackenzie Industries Sdn Bhd	Jan-Sept 2018	Mechanical Test	Mechanical test on test coupon



No.	Client	Period	Services Offered	Project Undertaken
41.	Jutasama Sdn Bhd	2016	Mechanical test & PMI	Mechanical Test at Jutasama workshop & at worksite
42.	Payung Emas Sejati Sdn Bhd	Jan-Sept 2018	Mechanical Test	Mechanical test
43.	Jord (M) Sdn Bhd	Jan – present 2019	Mechanical test & PMI	Mechanical Test workshop & at worksite
44.	Bukit Fraser Thermal Technology Sdn Bhd	2018	Mechanical test & PMI	Mechanical Test workshop & at worksite
45.	Linatex Rubber Products Sdn Bhd	2018	Mechanical test	Mechanical Test workshop & at worksite
46.	Favelle Favco Cranes (M) Sdn Bhd	2018	Mechanical test & PMI	Mechanical Test at Jutasama workshop & at worksite
47.	Kumpulan Agresif Sdn Bhd	2018	Mech Test, PMI, Ferrite, Corrosion Test	Mechanical testing at Nusatek lab and at site
48.	PT Technic Engineering Sdn Bhd	2017	Mech Test	Mechanical testing at Nusatek lab.
49.	Vocational Education Training Academy Sdn Bhd	2016	Mech Test	Bend Test, Macro & Hardness Test on pipes at Nusatek lab.
50.	Petra Fabricators Sdn Bhd	Jan-Dec 2015	Mechanical Test	Mech Test at Nusatek lab.
51.	Tenaga Tiub Sdn Bhd	Aug-Sept 2015	Mechanical Test	Mechanical Test on tube to tubesheet at Nusatek
		Jan-Dec 2015	Mechanical Test & PWHT	Mechanical Test & PWHT on WPS plates & piles at Nusatek
52.	Chip Ngai Engineering Works Sdn Bhd	Jan-Dec 2015	Mechanical Test	Mechanical Test on WPS plates & piles at Nusatek
53.	Yuen Fee (Wan Soon) Engineering Sdn Bhd	Jan-Dec 2015	Mechanical Test, PMI Test, Ferrite Test	Mechanical Test & Ferrite on plates & pipes at Nusatek
54.	Yuen Fee (Wan Soon) Engineering Sdn Bhd	March-Dec 2015	Mechanical Test	Mechanical Test on plates & pipes at Nusatek
55.	Asia Baru Construction Sdn Bhd	Jan-Dec 2015	Mechanical Test	Mechanical Test WPS/WQT plates & pipes at Nusatek
56.				
57.	TWI Services Sdn Bhd	Jan-Dec 2015	Mechanical Test	Mechanical Test on WPS plates at Nusatek
58.	Tiger Project & Management Sdn Bhd	Jan-Dec 2015	Mechanical Test	Tensile Test on Thumbnail & Abon material
59.	Andritz Ulu Jelai Project Sdn Bhd	Apr-Dec 2015	Mechanical Test	Mechanical test at Nusatek lab
60.	Malakoff Power Berhad	Sept 2015	PMI	PMI XRF for HP Super heater HRSG32
61.	Malakoff Power Berhad	Oct 2015	PMI	PMI XRF for HRSG Superheater Headers and drain line at Malakoff Plant Segari, Perak
62.	Malakoff Power Berhad	July 2015	PMI	PMI (Spark Method) on Alloy element at Lumut Power Plant
63.	MSET Engineering Corporation Sdb Bhd	2010	PMI & Ferrite Check	Kinabalu NAG Development Project
64.	Kellington Group Berhad	Feb 2010	Failure Analysis	Perform failure analysis on stainless steel pipe



EXPERIENCES LIST (PMI)

No.	Client	Period	Project Undertaken
1.	Swagelok / Kuala Lumpur Valve & Fitting (M) Sdn Bhd	Jan 2019 - Present	PMI XRF for Valves at Subang Jaya, Singkung, Kemaman & Labuan Warehouse
2.	Johnson Pump Malaysia Sdn Bhd	Mar 2019	PMI XRF at Sri Kembangan (SK Pegaga AODD)
3.	Chow Steel Engineering Sdn Bhd	Feb 2019	PMI Spark for structural joints at Rawang workshop
4.	Exertsil Industrial, Sdn Bhd	Feb 2019	In-lab PMI XRF for RTJ Gasket
5.	Mokveld (M) Sdn Bhd	Feb 2019	In-lab & site PMI XRF for tubes
6.	Pantech Corporation Sdn Bhd	Feb 2019	PMI XRF for Piping at PKFZ Klang
7.	Metro Quest Sdn Bhd	Mar 2019	PMI Spectro for Duplex Globe Valves at Kemaman workshop
8.	Yokogawa Electric (M) Sdn Bhd	Feb 2019	In-lab & at site PMI XRF for Valves, Pressure & Temperature Transmitter at YEM workshop, Puchong
9.	Hoseman Sdn Bhd	Jan 2019	PMI XRF at Wisma Flytech, Klang (Project: Bokor Betty Brownfield)
10.	Cameron Malaysia Sdn Bhd / Schlumberger	Jan 2019	PMI XRF for structural joints at Subang workshop
11.	Steelcon Heat Transfer Sdn Bhd	Jan 2019	PMI XRF for weldment & flange at Nilai workshop
12.	Ekahala Resources Sdn Bhd	Jan 2019	PMI XRF at ERSB workshop Shah Alam
13.	UMW Industrial Power Services Sdn Bhd	Jan 2019	PMI XRF for Exhaust Silencer, Piping for flame arrestor & Structural joints at UWM Shah Alam
14.	Adsof Synergy Sdn Bhd	Jan 2019	PMI XRF for Tank at HM Cryogenics workshop for Petronas Fertilizer Gurun
15.	Kapar Energy Ventures Sdn Bhd	Jun 2018 to Jun 2020	2 years contract for PMI Services at Unit 4, Sultan Salahuddin Abdul Aziz Power Station, Kapar, Klang
16.	Steamsafe Sdn bhd	Dec 2018	PMI Spark at Kibing Glass Senawang
17.	Matrix Cooling (S) Pte Ltd	Nov 2018	In-lab PMI XRF for Hex Bolt & Nut
18.	Mastek Oil Tools Sdn Bhd	Oct 2018	PMI Spark at KNM Melaka Fabrication Shop
19.	Velosi (M) Sdn Bhd	Jul – Oct 2018	PMI at Sarawak Shell, PMI XRF at E6 (Offshore), PMI at Klang & Lumut site
20.	Johnson Pump (Malaysia) Sdn Bhd	May 2018	PMI XRF for Anjung Plunger SO 00144-P at Seri Kembangan workshop
21.	SGS (Malaysia) Sdn Bhd	Feb 2018	PMI Spectro for SS & CS material at SGS workshop Kota Kemuning
22.	Kuala Lumpur Valve & Fittings	Jan-May 2018	PMI XRF & Spectro at Sinkung & Subang workshop
23.	Steelcon Heat Transfer Equipment Sdn Bhd	Feb 2018	PMI Spectro at Nilai workshop
24.	Danamin (M) Sdn Bhd	Feb 2018	PMI XRF at RAPID Pengerang
25.	TUV SUD (M) Sdn Bhd	Jan 2018	PMI Spectro for 6 unit Air Tank at Kulim, Kedah
26.	Winner Inspection Sdn Bhd	Jan 2018	PMI Spectro for CS & SS material at Labuan Fabrication workshop
27.	Seremban Engineering Berhad	Jan-May 2018	PMI XRF & Spectro at Seremban workshop



No.	Client	Period	Project Undertaken
28.	Chalice Quality Service Partner	Jan 2018	PMI Spectro on Heat Exchanger at Hartalega Factory & TTHE workshop, Sepang
29.	Yokogawa Kontrol (Malaysia) Sdn Bhd	Jan 2018	PMI XRF at Dataran Elektra workshop at Nilai
30.	Tenaga Tiub Sdn Bhd	Dec 2018	PMI Spectro at Nilai workshop
31.	United Testing Co. Sdn Bhd	Nov 2018	PMI XRF at Glenmarie workshop
32.	Mikuni Resources (M) Sdn Bhd	Oct 2018	PMI XRF at Mikuni workshop Petaling Jaya
33.	Solar Alert Sdn Bhd	July 2018	PMI XRF at Solar Alert workshop at Berjaya park
34.	Dermaga Oil and Gas Sdn Bhd	Apr 2018	PMI XRF at Nilai workshop
35.	Spectech Sdn Bhd	Apr 2018	PMI XRF at Nilai
36.	TUV Nord (M) Sdn Bhd	Jun 2018	PMI XRF & Hardness MIC10on Boiler Tubes at Kempas Johor
37.	Tenaga Tiub Sdn Bhd	Sep 2018	PMI Spectro at Nilai workshop
38.	S.E.M Inspection Sdn Bhd	Jul 2018	PMI Spectro -Emery Oleochemicals Plant Shutdown at Telok Panglima Garang, Banting
39.	Tanjung Bin O&M Berhad	Jan 2017	U30 N-3-3B Boiler Tube PMI Inspection at Tanjung Bin Power Plant, Johor
40.	Futech Metalworks Sdn Bhd	Feb 2017	PMI XRF at Semenyih workshop
41.	Nusapetro Sdn Bhd	Feb 2017	PMI XRF for CO2 Snuffing System (ME145) at Setapak K.Lumpur
42.	LSS Energy Sdn Bhd	Apr 2017	PMI XRF at Puchong workshop
43.	Bumificent Sdn Bhd	Jun 2017	PMI XRF on Dampeners & calibration Pots
44.	Amalgamated Metal Corporation (M) Sdn Bhd	May 2017	PMI Spectro at AMC Kuantan, Pahang
45.	Emerson Process Management Manufacturing (M) Sdn Bhd	Aug 2017	PMI Spectro at Nilai workshop

Failure Analysis Experience 2019 (Material Division)

NO	YEAR	FIELD OF SERVICES	PROJECT TITLE
1	2009	Upstream Operation	Failure analysis on Super Duplex Stainless Steel Sea water lift cross over (cracked pipe)
2	2010	Upstream Operation	Failure analysis on Fracture of coupling spacer
3	2010	Fabricator	Failure analysis on Corroded Stainless Steel pipes
4	2010	Fabricator	Failure analysis on Cracked stainless steel welded pipe
5	2011	Upstream Operation	Failure analysis on Leaking Aluminium bronze water pump casing
6	2011	Upstream Operation	Failure analysis on Corroded Centrifugal water pump Impeller Brazing
7	2011	Petrochemical	Team members on Academic Study on Waste Water Tank Failure
8	2011	Construction	Failure Analysis on Fire Sprinkler Pipe Crack
9	2012	Petro power	Team members of Deposition Analysis for Heat Recovery Steam Generator (HRSG) High Pressure Evaporator (HP Evap) Tube.
10	2012	Petro power	Performed In-Situ Metallography on Broken Turbine Stator Vanes Blades and determine the microstructures properties on the damage blades.
11	2012	Petro power	Performed In-Situ Metallography on Damage cast Iron hook fit and determines the cause of the damage.
12	2012	Upstream	Failure Analysis on Scrapper Pin (Drilling Process) with Singapore Test Services.
13	2012	Automotive	Failure analysis on Noise failure of drum brake
14	2013	Petrochemical	Failure analysis on corroded stainless steel welded pipe
15	2013	Upstream	Failure analysis on Scrapper Pin
16	2013	Manufacturer	Failure analysis on Connector
17	2013	Construction	Failure analysis on Failure Bolts for MMC Gamuda KVMRT Project
18	2014	Manufacturer	Failure analysis on Rust Actuator Stem

Failure Analysis Experience 2019 (Material Division)

19	2015	Upstream Operation	Failure analysis on Armature Pitting
20	2015	Construction	Failure analysis on Failed Tie wire for MMC Gamuda KVMRT Project
21	2015	Petro Power	SP TJB4 - Material and NDT test on burst elbow 15Ni
22	2015	Upstream Operation	Metallurgical Analysis-12-1/8" HSB String Stabilizer
23	2015	Upstream Operation	Failure analysis on OSS 12-01142M Stabilizer
24	2015	Upstream Operation	Metallurgical analysis on failure riser elbow
25	2016	Fabricator	Metallurgical analysis on duplex stainless steel used pipe
26	2016	Petrochemical	Failure analysis on T6 Reformer tube
27	2016	Midstream Operation	Failure analysis on Accumulator Stud Bolt
28	2016	Upstream Operation	Failure analysis on Snapped Bolts
29	2016	Upstream Operation	Metallurgical analysis on cracked elbow
30	2017	Petro Power	Failure analysis on Broken Sub
31	2017	Upstream Operation	Failure analysis on Poppet Stem
32	2017	Fabricator	Metallurgical analysis on Cracked Anchor Beam for TNB Project
33	2017	Petrochemical	Failure analysis on Heat Exchanger Tube
34	2018	Petrochemical	Failure analysis on Shell Exchanger Tube
35	2019	Petrochemical	Failure analysis on cracked nut
36	2019	Petrochemical	Metallurgical analysis on corroded pipe
37	2019	Petrochemical	Failure analysis on Leaked HTU Heater Tube
38	2019	Fabricator	Failure analysis on Cracked welded Pipe

UPDATE BY : SALINA (21/11/2019)



LIST OF COMPANY PAST EXPERIENCE IN-SITU REPLICA INSPECTIONS (NUSANTARA TECHNOLOGIES SDN BHD - 2019)

PERIOD	COMPANY	PROJECT TITLE	LOCATION/COMPANY	SCOPE OF WORK
2008	Kejuruteraan & Pembinaan Sikojaya Sdn Bhd	Replica test on P355 pipe	TNB Tuanku Jaafar, PD	Replica test & Hardness test
2009	Arashins (M) Sdn Bhd	PMLSB 12 th Plant TA 2009	Petronas Methanol Labuan Sdn Bhd	Replica test & Hardness test
2010	Arashins (M) Sdn Bhd	Confirmation of microstructures fitness on overheated reformer	Petronas Methanol Labuan Sdn Bhd	Replica test & Hardness test
2010	Arashins (M) Sdn Bhd	Confirmation of microstructures fitness on explosive flare stack	Petronas Methanol Labuan Sdn Bhd	Replica test & Hardness test
2010	Techtizen Sdn Bhd	Jimah Power Plant Turnaround 2010	Jimah Power Plant, Unit 1, Port Dickson.	Replica test & Hardness test
2010	Pahlawan Power Plant	Boiler superheater tube on HRSG 1 and HRSG II (2010)	Pahlawan Power Plant, Melaka	Replica test & Hardness test
2011	KNM Process Systems Sdn Bhd	Replica Test on weld overlay flanges for Technip Italy Project	Gebeng Fabricators Shop and Kuantan Port Shop	Replica test
2011	Emerson Management Systems (M) Sdn Bhd	Replica Test on weld overlay flanges	Nilai Workshop	Replica test
2011	True Features Corporation Sdn Bhd	Replica Test on weld overlay flanges	Subang Workshop	Replica test
2011	Pahlawan Power Plant	To carry out Replica Test on cracked Hook Fit cast iron and damage stator vanes blade	Pahlawan Power Plant, Melaka	Replica test & Hardness test
2012	Recron (Malaysia) Sdn Bhd	Replica Test on Thermo Oil Heater	Nilai Factory, Negeri Sembilan	Replica test & Hardness test
2012	TWI Services Sdn Bhd	Replica test on HRSG tubes (Shutdown)	Nur Generation Power Plant, Kulim	Replica test & Hardness test



Year	MSET Engineering Sdn Bhd	Replica Test on M2-178 Tapis OER Rejuvenation Project	MSET Workshop	Replica test
2012	Techtizan Sdn Bhd	To supply man power for replica test at Tanjung Bin Power Plant Shutdown	Tanjung Bin Plant , Johor	Replica test & Hardness test
2013	KNM Exotic Equipment Sdn Bhd	Vessel Head for K111084/ Sabah Ammonia Urea (SAMUR)	KNM Shah Alam Workshop	Replica test
2013	MMHE- ATB Sdn Bhd	Replica Test on Vessel Head for K111084/ Sabah Ammonia Urea (SAMUR)	Nilai Fabricators Workshop	Replica test
2013	Techtizen Sdn Bhd	To Supply man Power for replica test at Bekok-C Platform Restoration Project	Bekok-C Platform	Replica test & Hardness test
2013	DOSH	To carry out replica test on broken part	Nusantara Technologies Sdn Bhd	Replica test
2013	Care Iron Technologist Sdn Bhd	To carry out replica test on stainless steel pipes	Petronas Chemicals Ethylene Sdn Bhd	Replica test & Hardness test
2013	MJ Inspection Consultancy Sdn Bhd	To carry out Replica test on damaged nozzle , rust and R.P Oil Remained	Synerfizz Sdn Bhd	PMI, Replica test & Hardness test
2013 - 2014	KNM Process System Sdn Bhd	To carry out Replica Test on at burned marks on shell body for Sabah Ammonia Urea (SAMUR)	KNM Melaka Fabrication Shop KNM Gebeng Fabrication Shop	Replica test & Hardness test
2014	Petrochemical & Power Plant Services Sdn. Bhd.	To carry out Replica test on HP Superheater Header	Stesen Janaelektrik Jambatan Con-naught (SJUC), Klang	Replica test
2014	TS Multitech Enterprise	To carry out Replica test on Distillation Column PIC PMT 2235	Lereno Sdn. Bhd., Lumut Industrial Park, Setiawan, Perak.	Replica test & Hardness test
2014	Dongwha Fibreboard Sdn Bhd	To carry out replica test in inner shell of vessel due to maintenance works affect	Dongwha MDF (M) Processing Plant	Replica test & Hardness test



2014	Petronas Methanol Labuan Sdn Bhd	PMLSB 15 th Plant TA 2014	Petronas Methanol Labuan Sdn Bhd	Replica test & Hardness test
2014	TS Multifitech Enterprise	To carry out Replica test on Distillation Column PIC PMT 2235	Lereno Sdn. Bhd., Lumut Industrial Park, Setiawan, Perak.	Replica test & Hardness test
2014	Dongwha Fibreboard Sdn Bhd	To carry out replica test in inner shell of vessel due to maintenance works affect	Dongwha MDF (M) Processing Plant	Replica test & Hardness test
2014	Petronas Methanol Labuan Sdn Bhd	PMLSB 15 th Plant TA 2014	Petronas Methanol Labuan Sdn Bhd	Replica test & Hardness test
2015	Jutasama Sdn Bhd	SAMUR Project	Bukit Kemuning Yard & Sipitang , Sabah	Replica test & Hardness test
2015	Techtizen Sdn Bhd	BASF PLANT	Gebeng	Replica test
2015	TWI Services Sdn Bhd	Kulim Power Station Outage, HRSG UNIT 1.1/1.2, 2.1/2.2	Nur Generation, Kulim	Replica test & Hardness test
2015	Techtizen Sdn Bhd	To Supply manpower to perform Replica test for Kerteh Terminal Shutdown	Kerteh	Replica test
2015	Misi Setia Oil & Gas Sdn Bhd	EPCC For Sipitang Tee-off Metering Station	Sipitang , Sabah	Replica test & Hardness test
2016	HM Cryogenic	Outside Of Boot	Bukit Cerakah Workshop	Replica test & Hardness test
2016	Jutasama Sdn Bhd	Dish Head Of Vessel	Bukit Kemuning Yard	Replica test & Hardness test
2016	MHI Energy & Environment (M) Sdn Bhd	SAMUR Project	Sipitang, Sabah	Replica test & Hardness test
2017	Techtizen Sdn Bhd	To Supply manpower to perform Replica test for DCU Plant Unit 32	Melaka	Replica test
2017	Borneo Inpection & Integrated Services Sdn Bhd	Felda Sahabat Plant- Drum Steam Boiler	Lahad Datu, Sabah	Replica test & Hardness test
2017	Techtizen Sdn Bhd	To Supply manpower to perform Replica test for Tg Bin Power Plant Shutdown - Unit 20	Tanjung Bin, Johor	Replica test
2017	MMHE – ATB Sdn Bhd	Recycle Propylene Scrubber	Pasir Gudang, Johor	Replica test & Hardness test



2018	BASF Petronas Chemical Sdn Bhd	Firetube Boiler and Crude Acrylic Acid Storage	Gebeng, Pahang	Replica test & Hardness test
2018	ESPRAT Sdn Bhd	Main and sour Flare unit	Petronas Penapisan Melaka	Replica test & Hardness test
2018	Power Booster Engineering Maintenance Sdn Bhd	SPC Steam Boiler Unit 1 – Shutdown 2018	Sejangkat Power Corporation, Sarawak	Replica test & Hardness test
2018	Malakoff Sdn Bhd	Tg Bin Power Plant Shutdown - Unit 10	Tanjung Bin, Johor	Replica test & Hardness test
2018	Syarikat Cahaya Muda Perak (Oil Mill) Sdn Bhd	FFB Sterilizer	Tapah, Perak	Replica test & Hardness test
2019	BASF Petronas Chemicals	E-1206, E-1091A, XE-9600, XD – 9600 (Shutdown & on-call job)	Gebeng, Kuantan	Replica test
2019	SGS (M) Sdn Bhd	Replica test on Reformer Tubes, Inlet, and Outlet Systems	Linde (M) S/B, Senawang	Replica test
2019	Mir Valve Sdn Bhd	To perform ferrite counting using replica method on duplex steel material	Mir Valve, Selangor	Replica test & ferrite count (ASTM E562)
2019	Linde (M) Sdn Bhd	Replica test on Desuperheater, Inlet, and Outlet Systems	Linde (M) S/B, Senawang	Replica test
2019	Tenaga Tiub Sdn Bhd	Replica test on pitted stainless steel nozzle flange	Nusatek , Material lab	Replica, Hardness & PMI test

UPDATE BY: SALINA (18/11/2019)

LIST OF PAST PROJECTS UNDERTAKEN – METROLOGY DIVISION

No.	Client	Period	Services Offered & Project Undertaken
1.	Tenaga Nasional Berhad (TNB)	2019	Annual Calibration of Instrument
2.	SGB MY Sdn Bhd	2019	Annual Calibration of Instrument
3.	Premier Calibration Sdn Bhd	2019	Annual Calibration of Instrument
4.	Petroleum Equipment & Supplies	2019	Calibration on various field of calibration; Pressure, Electrical, Force, Dimensional
5.	Schlumberger WTA (Malaysia) Sdn Bhd	2019	Hydrotest & Refurbishment (Blasting & Painting) of pipes
6.	Malakoff Tanjung Bin O&M Berhad	2018	Calibration & Servicing of Pressure Relieve Valves
7.	Flow Line Sales & Services Sdn Bhd	2018	Annual Calibration of Instrument
8.	Alfa Laval Malaysia Sdn Bhd	2019	Calibration on gauges, Torque, calipers & Micrometer
9.	Yuen Fee (Wan Soon) Engineering Sdn Bhd	2019	Calibration on Pressure Relief Valves
10.	Taylor Wharton Malaysia Sdn Bhd	2019	Annual Instrument calibration & Welding Machines
11.	Valser Engineering Sdn Bhd	2019	Annual Calibration of Instrument
12.	Swagelok Malaysia	2019	Calibration of gauges, pressure relieve valves and calipers
13.	Rotork (M) Sdn Bhd	2018-	Annual Calibration of Instrument
14.	Vasaero Malaysia Sdn Bhd	2019	Annual Calibration of Instrument
15.	Global Turbine Asia Sdn Bhd	2019	Calibration of torque, gauges & Load Test
16.	Frencken Mechatronics (M) Sdn Bhd	2019	Annual Welding Machine Calibration
17.	Linde Malaysia Sdn Bhd	2019	Annual Calibration of Instrument
18.	HRD Aero Malaysia Sdn Bhd	2018	Annual Calibration of Instrument
19.	Chip Ngai Engineering Works Sdn Bhd	2019	Annual Calibration of Instrument
20.	Sondex Heat Exchanges Malaysia Sdn Bhd	2019	Annual Calibration of Instrument
21.	Bauer (Malaysia) Sdn Bhd	2019	Calibration Of Gauges
22.	Bio Super Sdn bhd	2019	Load Testing

No.	Client	Period	Services Offered & Project Undertaken
23.	KSP Test Pile (M) Sdn Bhd	2019	Calibration Of Gauges
24.	BHIC Defence Techservices Sdn Bhd	2018	Calibration of Multimeter, Clamp meter & Insulation Tester
25.	Impian Tekad Sdn Bhd	2018	Calibration of instrument
26.	Rahmat Dagangan Sdn Bhd	2018	Hydrotest on Steam Trap
27.	Sungai Harmoni Sdn Bhd	2019	Onsite Calibration of gauges
28.	Sapura Energy Sdn Bhd	2017	Annual Calibration of Instrument
29.	Fresenius Kabi Malaysia Sdn Bhd	2017	Annual Calibration of Instrument
30.	Vesseltech Engineering Sdn Bhd	2019	Annual Calibration of Instrument
31.	Institut Tadbiran Awam Negara (INTAN)	2017	Calibration on their kitchen equipments (Freezer, chiller, Oven & Weigher)
32.	Favelle Favco Cranes Sdn. Bhd.	2019	Instrument Commissioning & Annual Recalibration
33.	Serba Dinamik Sdn Bhd	2019	Annual Calibration of Instrument
34.	Seremban Engineering Berhad	2017	Annual Calibration of Instrument
35.	Kumpulan Agresif Sdn Bhd	2019	Hydrotest and Pop Test on Pipeline
36.	Sedafiat Sdn Bhd	2019	Calibration Of Temperature Controller
37.	Emerson Automation Solutions Sdn Bhd	2019	Hydrotest
38.	Trisystems Flow Product Sdn Bhd	2017	Calibration Of Temperature Gauges
39.	Jutasama Sdn. Bhd.	2019	Annual Calibration of Instrument
40.	GMP Medicare Sdn Bhd	2016	Annual Calibration of Instrument
41.	Intran Technologies Sdn Bhd	2016	Hydrotest
42.	C&T Trading Technolgies Sdn Bhd	2016	Calibration on Gauges
43.	Petro Feam Procurement Services Sdn Bhd	2016	Hydrotest
44.	Weir Minerals Malaysia Sdn Bhd	2016	Hydrotest
45.	City Colleague University	2016	Annual Calibration of Instrument
46.	Flowline Services Sdn Bhd	2016	Annual instrument calibration
47.	Sigur Ros Sdn Bhd	2016	Calibration of thermometer, clamp meter, gauges & multimeter Hydrotest
48.	Kejuruteraan Stec Sdn Bhd	2019	Annual Calibration of Gauges

NUSANTARA TECHNOLOGIES SDN BHD

No.	Client	Period	Services Offered & Project Undertaken
49.	CTLPlast Manufacturing Sdn Bhd	2019	Annual Calibration of Instruments
50.	Blueaire Services Sdn Bhd	2019	Annual Calibration of Gauges
51.	Pisces Engineering Sdn Bhd	2019	Annual Calibration of Instruments
52.	Mir Valve Sdn Bhd	2019	Annual Calibration Pressure Transducer
53.	Pioneer Pegasus Sdn Bhd	2019	Oven & Welding Machines
54.	Solid Bend Fitting & Flanges Sdn Bhd	2015	Hydrotest
55.	Apeco Engineering Malaysis Sdn Bhd	2015	Calibration of Instruments
56.	Cryoquip Sdn Bhd	2015	Annual Calibration of Instruments
57.	Petra Fabricators Sdn. Bhd.	2018	Annual instrument calibration
58.	VME Technical Services Sdn Bhd	2015	Annual Calibration of Pressure Gauges & Pressure Recorder
59.	Offshore-CPI Supply Sdn Bhd	2015	Annual Calibration of Safety Relief Valves
60.	Yuen Fee (Wan Soon)Engineering Sdn Bhd	2019	Annual Calibration of Gauges & Pressure Safety Valves
61.	AVKF Solutions Sdn Bhd (SWAGELOK)	2019	Annual Calibration of Gauges & Safety Valves
62.	Transwater Api Sdn Bhd	2015	Instrument Calibration (Pressure Recorder, Safety Valves)
63.	Swago (m) Sdn Bhd	2014	Hydrotest
64.	Anjur Ekar Sdn Bhd	2014	Hydrotest & Pneumatic Test
65.	Intrant Technologies Sdn Bhd	2014	Hydrotest
66.	Interscience Sdn Bhd	2014	Hydrotest
67.	PMI Technologies Sdn Bhd	2019	Hydrotest, Vacuum Test
68.	Hydraulic Control Systems (Asia Pacific) Sdn Bhd	2014	Calibration of Pressure Safety Vales
69.	Kencana HL Sdn. Bhd.	2014	Instrument Commissioning & Annual Recalibration, Metering Skid Instrumentation
70.	Kiswire Sdn Bhd	2019	Annual Calibration Pressure Transducer

RECOGNITION AWARDS



SIJIL PENGHARGAAN


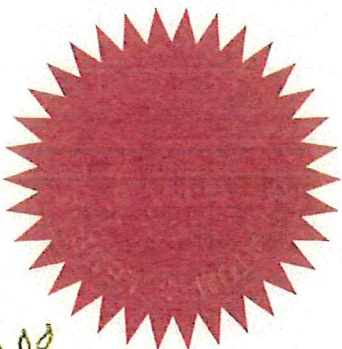
DIANUGERAHKAN KEPADA

**NUSANTARA TECHNOLOGIES SDN.BHD
(LPTA/A/322)**

Sebagai Penerima
**ANUGERAH PEMEGANG LESEN TERBAIK
(KATEGORI 2)**

**Dimajlis Hari Bersama Pelanggan
Lembaga Perlesenan Tenaga Atom
Tahun 2018**

Pada
27 Mac 2018
**Ibupejabat Lembaga Perlesenan
Tenaga Atom**



(HAMRAH BIN MOHD ALI)

**Ketua Pengarah
Lembaga Perlesenan Tenaga Atom
Kementerian Sains Teknologi dan Inovasi
23 Mac 2018**

STANDARDS
MALAYSIA

Sijil Penghargaan

kepada

**NUSANTARA TECHNOLOGIES SDN. BHD.
(MATERIAL LAB)**

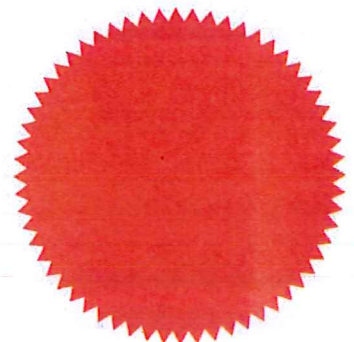
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**SKIM AKREDITASI MAKMAL MALAYSIA (SAMM)
BAGI BIDANG PENGUJIAN**



(Datuk Seri Panglima Dr. Maximus Johnity Ongkili, J.P.)
Menteri Sains, Teknologi dan Inovasi

22 November 2012



**PETRONAS
GAS**



TROSON UTERAL PIPELINE PROJECT

PEREMBA

PEREMBA CONSTRUCTION SDN BHD

CERTIFICATE OF APPRECIATION

This Certificated is presented to:

NUSANTARA TECHNOLOGIES SDN BHD

In recognition of your significant contribution
towards the commendable achievement of

75.000 MANHOURS WORKED

WITHOUT LOST TIME INJURIES

From 1st September 2000 to 30th April 2001

PETRONAS GAS BERHAD

.....
PAUZI DAUD
Site Manager

PEREMBA CONSTRUCTION SDN BHD

M. Zaini

.....
ZAINAL MOHAMMED AYON
Project Manager



CERTIFICATE OF APPRECIATION for

PARTICIPATING AND DEMONSTRATING GOOD HSE
PERFORMANCE THROUGHOUT THE PROJECT WITH THE
ACHIEVEMENT OF ONE MILLION MANHOURS WITHOUT LTI

Awarded to

NUSANTARA TECH. SDN. BHD.

CONTRACT NO. : CH2/C2/1998/DAS/065
Transportation and Offshore Installation of
Platforms and Pipelines

ANGSI 2001



TL OFFSHORE SDN. BHD.



SYED JAMIL FADAAK
Executive Director

THANK YOU