

From University Spin-Off To Global Player



AMTECH CHEMICAL SDN BHD
Corporate Services Department

www.amtech.com.my

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EXECUTIVE SUMMARY:

When we are on the outside of the industry, there seem so many barriers and difficulties in setting up a company supporting the oil and gas industry.

But with a vision and mission that sets the purpose, a Technology Plan and experience, AMTECH was able to prove that it is not impossible to establish such an entity.

In a knowledge-based industry, patience and understanding the learning curve is important. Then there are strategies to be laid out every five years to set and achieve incremental progress driven by the vision.

Thus the collaborations with local and foreign universities are vital to harness the academic input to achieve the objectives. We also have to learn from how others do it. So AMTECH invest in a lot of studies overseas to Canada, USA, Korea, Japan and China to study and develop understanding of how we want to shape our business model.

Finally having a good team, both technical and non technical is important. Then to make it all work towards the objective is equally vital. Relationships with the Banks are needed to keep our operations smooth and with the good relationship and support of the client, we are able to maintain a good cash-flow management that provided a stable business environment.

AMTECH is at the crucial point in its development as it approaches the final phase of its Technology Plan and injection of funds through investment becomes critical as it pushes its sales volume past the RM50.0m psychological barrier towards RM100.0m and potential listing in the local bourse.

INTRODUCTION:

This document outline the journey undertook by AMTECH in pursuit of its dream to be the production chemical and provider of services of choice to the Malaysian oil and gas industry through a technology development plan.

Starting with a vision to check the continuous patronage of foreign chemical companies in Malaysia since the Petroleum Development Act was incorporated in 1974. The founder gained as much knowledge from 16 years experience in PETRONAS and then 12 years as Associate Professor at the Universiti Teknologi Malaysia in Skudai Johor.

AMTECH was subsequently incorporated in February 1999 using concepts learnt from observing its original company AMTECH Inc. of Calgary Canada which was "Solving Site Specific Problems". A talented chemist graduating from Universiti Malaya, then joined AMTECH as partner a year later up to this day.

Two MOUs were signed in 2001 for the development of scale and corrosion inhibitors (with UTM Chemical Engineering Pilot Plant) and later, sludge breaker (with MINT in Bangi) awarded by SMIDEC totaling RM2.75m. It was envisage then that scale and corrosion are the major cause of concerns in the local oilfields and that sludge minimization will enable industry to recover valuable hydrocarbons and reduce treatment costs to Kualiti Alam, besides supporting environmental conservation efforts by the Government.

In the meantime, with the support of the Melaka Refinery team AMTECH developed a decontaminant to clean tanks and vessels which was meant to compete with expensive imports. It then patented the product and subsequently registered all their products and devices with the completion of the above applied projects in 2003. From 2004 it worked closely with PETRONAS Dagangan and Carigali to submit a joint proposal to overcome the scaling problems at Tiong and Dulang fields which were in their midlife.

Having registered with PETRONAS and several other entities such as TNB, PROPEL, CIDB, SIME, MMHE and approval by BOMBA, DOE, JKPP AMTECH was ready to submit a Vendor Proposal to PETRONAS in 2006. In September 2007 it was awarded a Restricted Category for three chemicals namely Scale, Corrosion and Deoiler which made it among the first bumiputera company to be accorded such a category. AMTECH products are registered trade-marked.

The next milestone was when in December 2007 AMTECH was awarded a RM7.5m three years contract to supply chemicals for a Greenfield by NEWFIELD of Texas USA. It was the first and toughest challenge AMTECH has to face but it provided a valuable learning curve for our technical team.

Following the success, AMTECH was awarded in July 2011 a brownfield RM 50.0m. contract by Carigali for the supply of three chemicals to the Peninsular Malaysia, Sabah and Sarawak Operations. In between AMTECH secured various Price Agreements and Purchase Orders that helped us generate annual sale of RM18.0 to 20.0m as of FYE 2013.

Coming close to completion of Phase 2 of its Technology Plan, AMTECH is embarking on exciting program to accelerate its achievement of the set objectives by collaborating with industry giants as well as local technology universities such as UTP, UTM, UMP, UUM and foreign institutions such as Institute Teknologi Bandung Indonesia.

AMTECH manages its quality operations through the ISO:9001(2008) and HSE through the ISO: 18001(2006) certified two years ago. At the same time, AMTECH has for the past three years attained four star rating from SME Corp. and registered as a TERAS company with TERAJU a Government initiative to support SMEs in the oil and gas industry.

After 15 years of sustaining the challenges of the industry, AMTECH is proud that it is able to stand at par with the foreign competitors, able to develop its own products and gearing its investments for Enhanced Oil Recovery and Deep Water projects. It plans to list on the bourse by 2020.

OBJECTIVE:

The objective of this document is to present the evolution of AMTECH Chemical Sdn. Bhd. from inception in to a business organization competing in the global market.

VISION AND MISSION:

Since its incorporation in Feb. 1999, AMTECH has established its vision and mission as:

Our Vision:

To be the preferred choice for the total chemical production treating and Operation needs of the global oil, gas and petrochemical industry, upholding integrity, trust and confidence from our customers for the success of their business.”

Our Mission:

“To innovate quality chemical solutions, applications and technology, create safe and environment friendly products and services for the global oil, gas and petrochemical industry.....”

INDUSTRY SCENARIO

The oil and gas industry is a maturing industry and has made tremendous transformation in particular the chemicals with changing field parameters, deeper reservoirs and re-inventing of enhanced oil recovery initiatives.

Chemical and service companies similarly have to quickly respond to the changes in the environment and invest accordingly, in more manpower training, R & D and technology. This become some of the constraints of smaller companies such as AMTECH while bigger foreign companies merge in the global markets to further form an unofficial cartel and oligopolies.

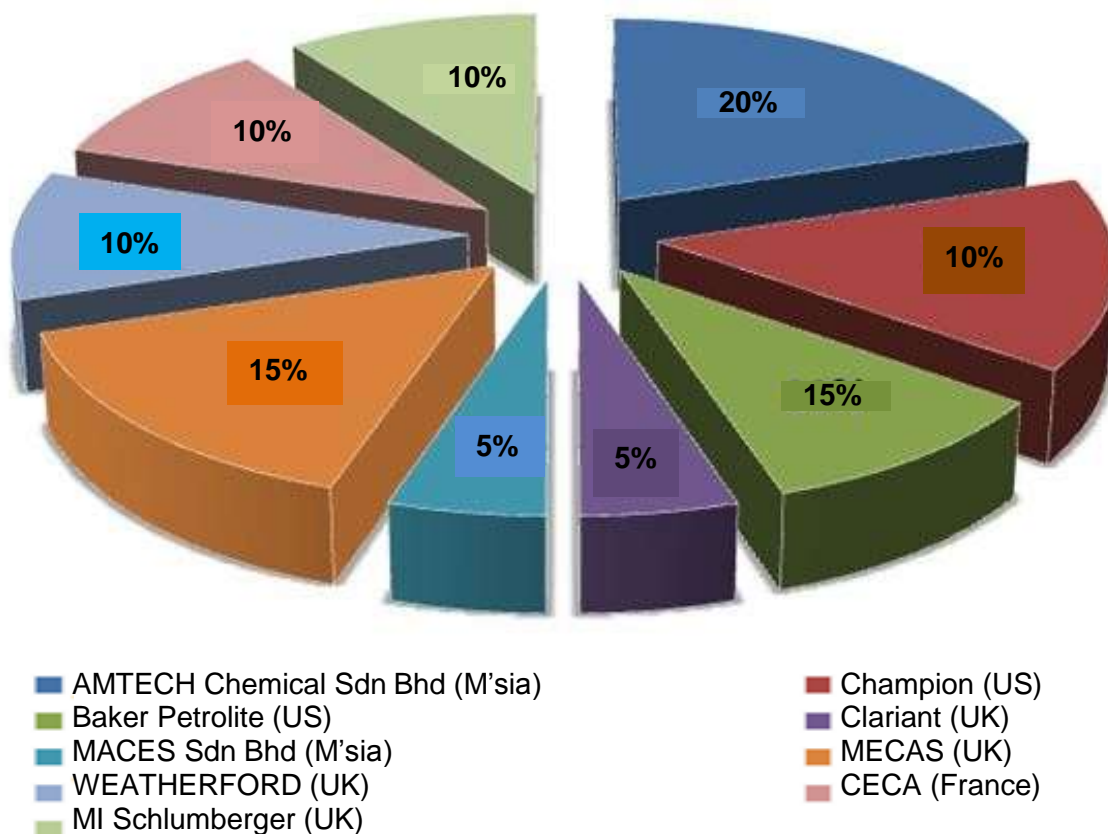
Without the support and opportunities by local oil companies, the growth of local chemical companies is on the downward trend. The removal of the Vendor Development Program, further aggravate the condition and competitiveness of local companies as the trend shows.

Smaller companies such as AMTECH, has to innovate and be creative to sustain and keep up with the challenges to its existence. We have to resort to strategic alliances with local and

foreign parties, sharing the resources and knowledge through MOUs with local universities and research institutions.

The business perspective for local chemical companies are gloomy, to say the least. But injection of investment and sustaining the above strategies will enable AMTECH to stay afloat and provide the remaining competition for the large multinationals.

Chart of Market Share



AMTECH BUSINESS:

CHEMICAL FORMULATION AND PRODUCTION

AMTECH formulate solutions to solve the oil and gas industry specific problems by sending its technical team to take samples off shore and perform tests both at its own lab and collaborative research centre to resolve their problems be it corrosion, scaling, water quality, b s & w challenges as well as other problems such as bacteria infestations or high water cut.

More often, AMTECH will produce the lab scale solutions and send its technical team off-shore to perform field trials prior to manufacturing the products prior to actual application. Follow up service is performed by the field team, to monitor and record the chemical performance over time and report back for improvements and development. AMTECH also perform optimization to ensure the products used are the most appropriate dosage and effectiveness.

Field surveillance is another aspect of AMTECH capabilities in which most of its trained local staff are exposed on the job and are often sent for OJT for more enhance competencies.

AMTECH Logistics team ensure that products delivered are properly packed, labeled and weighed to ensure that they comply to the client standards. It is pertinent that the deliveries arrive on time as it is critical to the clients' production programs.

AMTECH has its own blending plant comprising four 2.5tons vessels complete with scrubbers and demin water system with production capacity of 100 MT per day. It has a competent production team comprising Supervisor and Technicians.

Product	Code	Purpose
Degreaser	AMTECH 100 Series	Cleaning and removal of stains, rusts and dirt from pipelines, rigs, turbines and electrical systems.
Scale inhibitor	AMTECH 1000 Series	Remove and provide protection in pipelines against scaling.
Corrosion inhibitor (F)	AMTECH 1500 Series	Remove and provide protection against corrosion associated with acid gases and inorganic salts.
Corrosion inhibitor (G)	AMTECH 1500 Series	Provide protection in high temperature and pressure system.
Demulsifier	AMTECH 2000 Series	Reduce water and enhance crude calorific value and higher sales.
Deoiler/ Water Clarifier	AMTECH 2500 Series	Enhance liquid solid separation in a wide variety of industrial applications.
Sludge Treatment	AMTECH 4000 Series	Separate hydrocarbon sludge to recover oil, discharge water to DOE standards and debris as a conservation and value adding initiative.
Biocides	AMTECH 5000 Series	Protect the pipeline material from biological infestation and growth.
Wax/Asphaltnes	AMTECH 6000 Series	Prevent deposition of waxes in production area, storage and transport pipelines.
Decontaminants	AMTECH 7500 Series	Eliminates toxic gases and flammable items from pipelines, tanks and vessels.

TECHNICAL MANPOWER

Led by the Managing Director, who is a Chemist himself, the General Manager oversees the overall operations comprising the HSE Personnel, QAQC Personnel, the Production Team, the Field Team and Laboratory staff.

AMTECH ensures its standards for quality by certifying itself to ISO:9001 (2008) and HSE by certifying to ISO: 18001 (2005) and regularly carry out its audits as required by the clients.

Safety is premium in the oil and gas industry and AMTECH is committed to ensure compliance with its Zero LTA standing at 600 000 as of November 2014.

AMTECH also works closely with the regulatory authorities such the DOE, JKPP, DOSH, Local PBTs, FIRE Dept. and Chemistry Dept. (HEALTH).

AMTECH CHEMICAL SDN. BHD.

LOST TIME ACCIDENT FREQUENCY RATE SUMMARY

The "Lost Time Accident Frequency Rate" (LTAFR) identifies the number of lost time accidents, which occur in every 200,000 manhours worked and is calculated as follows :

$$\frac{\text{Number of LTAs} \times 200,000}{\text{Total Manhours Worked}} = \text{LTAFR}$$

YEAR	HOURS WORKED (PG)	NUMBER EMPLOYED	FATALITY	LOST TIME INJURY	RESTRICTED WORK CASES	MEDICAL TREATMENT CASES	FIRST AID	PROPERTY / EQUIPMENT DAMAGE	FIRE / EXPLOSION	POLLUTION INCIDENT	NEAR MISS INCIDENT	LTAFR BASED ON 200,000 HOURS	HOURS WORKED (PMO/SBO)	HOURS WORKED (SKO)	TOTAL MANHOURS
Jan-13	2520	15	0	0	0	0	0	0	0	0	1	0	2,344	680	5,544
Feb-13	2160	15	0	0	0	0	0	0	0	0	0	0	2,176	604	4,940
Mar-13	2688	16	0	0	0	0	0	0	0	0	0	0	2,484	676	5,848
Apr-13	0		0	0	0	0	0	0	0	0	0	0			0
May-13	0		0	0	0	0	0	0	0	0	0	0			0
Jun-13	0		0	0	0	0	0	0	0	0	0	0			0
Jul-13	0		0	0	0	0	0	0	0	0	0	0			0
Aug-13	0		0	0	0	0	0	0	0	0	0	0			0
Sep-13	0		0	0	0	0	0	0	0	0	0	0			0
Oct-13	0		0	0	0	0	0	0	0	0	0	0			0
Nov-13	0		0	0	0	0	0	0	0	0	0	0			0
Dec-13	0		0	0	0	0	0	0	0	0	0	0			0
TOTAL	7,368	N / A		0			0	0	0	N / A	0	0	7,004	1,960	16,332
													TOTAL (2008 - Now)		290,156
													(PG/PMO/SKO/SBO)		

- Lost Time Injury
- Injurious - Non LTI
- Non Injurious

ENGINEERING / LABORATORY SERVICES

To ensure completeness of the business, AMTECH provides engineering services such as Tote Tanks supply and management, IBCs, drums as well as Chemical Injection Skids should they be required by the clients.

AMTECH also equip its staff on field assignments with equipments to be used to take measurements, samples and mobile kits to facilitate their work. All field employees are also equipped with the required personal protection equipment to ensure that they are consistently safe on the job. These employees are protected by Medical Hospitalization and Insurance.

It is also important that tests and analyses are done promptly and correctly. At each technical office located all over the country, adequate lab equipment, storage and basic blending facilities are provided. These are further strengthened by more sophisticated equipments at the Head Office such as FTIR, GC and others.

AMTECH engineering needs are further reinforced by the support from collaborative industry partner overseas as well as MOUs with local IPTSs such as UTP, UTM, UUM, UMP and Institut Teknologi Bandung in Indonesia.





TRADING

To comprehensively meet the demands of the clients, AMTECH are often required to quote and supply for commodities and equipments relating to the chemical business such as Tri Ethyl Glycol (TEG), Biocides, Soda Ash and Acids. These products are imported and are not produced in Malaysia because of the economies of scale.





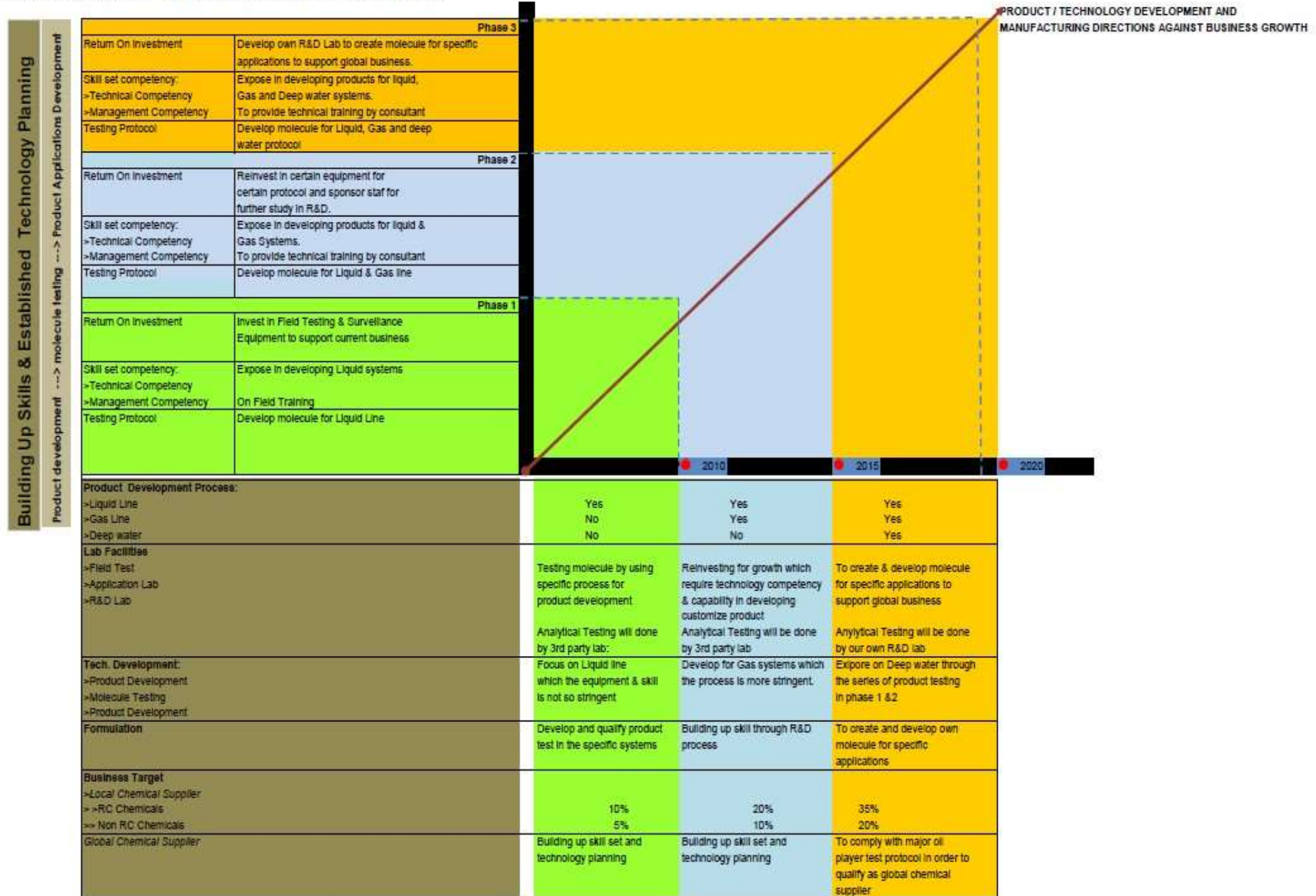
TECHNOLOGY PLAN:

AMTECH growth strategies evolve around a 15 years three phase technology plan commencing 2005 to 2010 in Phase 1, 2010 to 2015 in Phase 2 and 2015 to 2020 in Phase 3. Each Phase will take five year to achieve and it plots product development, time and sales as active parameters.

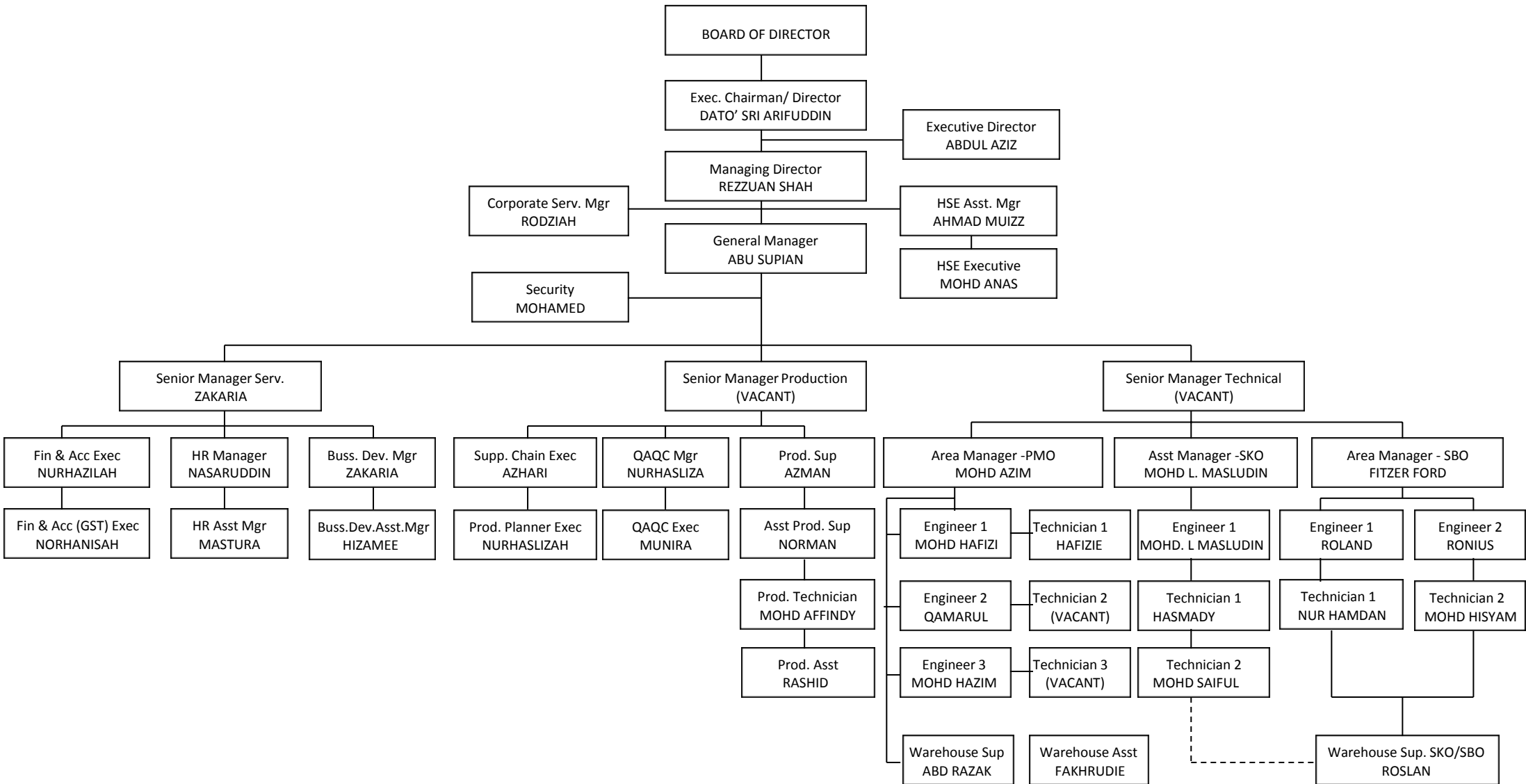
The graphics below shows the Technology Plan now at the end of its second phase and summary of its variables achieved to date and what is plan ahead. It gives AMTECH a purpose and direction to pursue as in below.

The Technology Plan also shows how important for AMTECH to achieve sales through contract award, procurement of equipment, training and product testing which necessitate reinjection of funds into the operations to fund the technology plan and create a viable business cycle, achieving the objectives in the most economical way.

SUMMARY OF TECHNOLOGY PLANNING



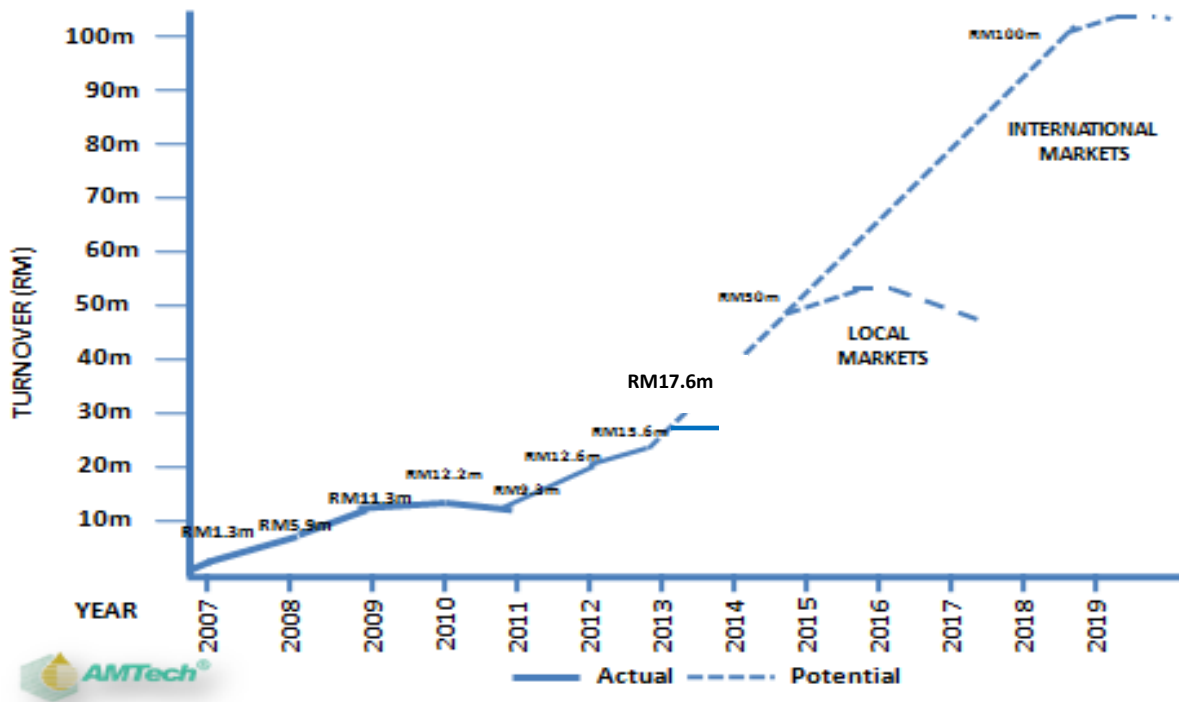
AMTECH CHEMICAL SDN BHD ORGANISATION CHART



SUMMARY OF TECHNOLOGY PLAN

No	Process	Phase 1 (2005 – 2010)	Phase 2 (2010- 2015)	Phase 3 (2015 – 2020)
1	Product Development	Liquid Line	Liquid & Gas Line	Deepwater
2	Lab Facilities	Test molecules using specific process Analytical Testing by Third Party Lab	Reinvest for growth. Require technical competency & capability in developing customized product. Analytical Testing will be done by Third Party	Create and develop molecule for specific applications to support global business. Analytical Testing will be done by own R&D Lab
3	Technology Development	Focus on Liquid line which the equipment & skill is not so stringent	Develop for Gas systems which the process is more stringent	Explore on Deep water through the series of product testing in phase 1 & 2
4	Formulation	Develop and qualify product test in the specific systems	Building up skill through R&D process	To create and develop own molecule for specific applications
5	Business Target Local Chemical Supplier >RC Chemicals >Non RC Chemicals	10% 5%	20% 10%	35% 20%
6	Global Chemical Supplier	Built up skill set and technology planning	Built up skill set and technology planning	To comply with major oil player test protocol to qualify as global chemical supplier
7	Testing Protocol	Develop molecule for liquid line	Develop molecule for liquid and gas line	Develop molecule liquid, gas and deepwater protocol
8	Skill Set Competency	Expose staff to liquid system. On field training	Expose staff to liquid and gas systems. Technical training by consultant	Expose staff both management and technical in oil and gas, liquid and deepwater systems. Technical training by consultant
9	Return on Investment	Invest in field testing and surveillance equipment to support current business	Reinvest in certain equipment for certain protocol. Sponsor staff for further studies in R&D	Develop own R&D Lab to create molecule for specific application to support global business
10	Achievement	Secure first contract develop own formulation. Trained own resources. Achieve target sale 15%	Secure more contracts. Reinvest in production and Lab facilities. Develop first Gas C.I formula. Achieve target sale 20%	Planning for Deep water, upgrade Lab and production facilities. Prepare to go to global business. Target sale 40%

SALES REVENUES TO DATE:



5 YEARS CASH FLOW PROJECTION

No	Project	2015 (RM)	2016 (RM)	2017 (RM)	2018 (RM)	2019 (RM)
1	Existing Contracts - Carigali 5+2 - HESS 3+2 - Software/services	9.0	6.0	3.0	3.0	2.0
		2.0	3.0	3.0	3.0	1.0
		0.5	0.7	1.0	1.0	1.0
2	EOR chemicals Total RM100m/yr EOR Post treatment chemicals	-	5.0	5.0	8.0	10.0
		-	4.0	5.0	6.0	7.0
3	PETRONAS HTHP and CO2 CI	-	3.0	4.0	5.0	6.0
4	PETRONAS IPC USD 100m	-	5.0	6.0	7.0	8.0
5	TEG RM 10m/yr	5.0	5.0	5.0	5.0	5.0
6	RAPID Projects: Tank cleaning/marine	-	1.0	2.0	3.0	3.0
7	Others: Trading, Global Business etc.	3.0	5.0	5.0	7.0	7.0
	TOTAL	19.5	37.7	41.0	48.0	50.0

COMPANY PARTICULARS:

JOHOR Main Operation Office and Factory

PLO 585, Jalan MIEL 2 Off Jalan Keluli 9, Kawasan Perindustrian Pasir Gudang, 81700 Pasir Gudang, Johor Tel :607-254 4500 / 4501 Fax: 607- 254 4502
Contact Person : Abu Supian bin Zainal (General Manager)
Operations Mobile No. : 016-772 3492

Kemaman Supply Base Warehouse and Sales/ Technical Service Office

AMTECH Chemical Sdn Bhd, Warehouse 33, Door 1, Phase 2, Kemaman Supply Base, 24007 Kemaman, Terengganu. Tel/ Fax : 09- 8633 323
Contact Person : Mohd Azim bin Abdul Rahman
Mobile No. : 016-772 3501

Kota Kinabalu Sales / Technical Service Office

Level 2,1st floor Suite 2008, West Wing, Wisma 2020, 18 Lorong Belia, Karamuning 88100, Kota Kinabalu, Sabah. Tel/Fax : 088-230545
Contact Person : Fitzer Ford Anastasius Odoi
Mobile No. : 019-722 9447

Labuan Warehouse and Sales / Technical Service Office

No. 38, Industri Kecil dan Sederhana (IKS), Kg Ranca-Ranca, 87000 Wilayah Persekutuan, Labuan. Tel/ Fax : 6087- 427 277
Contact Person : Roslan Mat Yakop
Mobile No. : 016-721 3494

Miri Sales / Technical Service Office

2nd Floor, Lot 1422 (Sublot 23), Ranca-Ranca Industrial Area, Parent Lot 991, Block Miri Concession Land District, 98000 Miri, Sarawak
Tel/Fax: 6085-657120
Contact Person : Mohd L. Masludin Syah bin Syamsuri
Mobile No. : 013-542 7403

Kuala Lumpur Sales Office

B2-5-3A, Solaris Dutamas, No. 1 Jalan Dutamas 1, 50480 Kuala Lumpur, MALAYSIA.
Tel: +603-6211 4490 Fax: +603-6211 4493 Contact
Person : Zakaria Mohd Nor
Mobile No. : 013-388 1214

REGISTRATION / LETTERS OF SUPPORT:



Ministry of Finance (MOF): since 1999.



PETRONAS License : since 2001 and awarded Restricted Bumiputera Category since 2007



MATRADE: since 2011. Adopted under BWEDP to promote our products overseas participated in the trade missions since 2011.



TERAJU: Adopted as TERAS Company since 2013 and participated actively in their meetings.



SME Corporation: for the past three years accorded for star rating.



Royal Malaysia Customs License : Sales Tax ACT 1972 since 2010.



OHSAS 18001: 2007 since 2014, Certificate No. 4411614920006



ISO 9001: 2007 since 2008, Certificate No. AR4616

MOU'S WITH LOCAL UNIVERSITY IN MALAYSIA :



MoU with Universiti Teknologi Malaysia since 2010



MoU with Universiti Teknologi PETRONAS (UTP) since 2011.



MoU with Universiti Utara Malaysia (UUM) since 2012.



Categories of License / Registration:

PC	1041100	Chemical – Customized Chemicals – Production Chemical
PC	1041200	Chemical – Customized Chemicals – Integrity Chemicals
PC	1070100	Chemical – Industrial Chemicals – Industrial Detergent
PC	1090100	Chemical – Common Chemicals – Commodity Chemicals
SH	2010101	On site schedule waste treatment**
SH	2030000	Decontamination Services**
SH	2040000	Mercury integrated services**
SM	3030303	Marine/Ship repair & maintenance - chemical cleaning**
SM	5010101	Floating roof storage tank**
SM	5050102	Fixed roof storage tank**
SS	1080000	Equipment chemical cleaning**
PM	1020000	Chemical injection skid**

Notes: ** in progress of application.

OUR FUTURE BUSINESS:

Up-stream Products and Services
<ul style="list-style-type: none"> • Water Injection Chemical
<ul style="list-style-type: none"> • Downhole
<ul style="list-style-type: none"> • EOR
Down-stream Products and Services
<ul style="list-style-type: none"> • Tank/ Vessel Chemical Cleaning& Desludging
<ul style="list-style-type: none"> • Water treatment
<ul style="list-style-type: none"> • Decontamination & Mercury Integrated Services
<ul style="list-style-type: none"> • Glycol Reclamation
<ul style="list-style-type: none"> • Engineering Services
<ul style="list-style-type: none"> • Tank cleaning Services

CONCLUSION:

AMTECH Chemical has evolved over 15 years and driven by its Technology Plan and close financial and management control, it is able to achieve its set plans and coordinate its efforts in marketing with prudent spending.

AMTECH is poised to achieve its ambition of breaking the RM50 to 100.0m barrier and listing before 2020 as Malaysia arrives at its National Vision set by the former Prime Minister Tun Dr. Mahathir Mohamad.

It goes to prove that with a concerted effort by entrepreneurs working in close collaboration with the oil company, local companies can compete healthily with global players as it enter the lucrative international market.



CATEGORY	PRODUCT CODE
UCARSOL	<ul style="list-style-type: none"> • UCARSOL HS 101 - Formulated methyldiethanolamine (MDEA) • UCARSOL HS 102 - Alkanolamine mixture • UCARSOL HS 103 - Alkanolamine mixture • UCARSOL AP 802 - Amine mixture • UCARSOL AP 810 - Formulated amines: 2,2'-(methylimino) diethanol; N-ethyldiethanolamine; piperazine • UCARSOL AP 814 - Formulated amines: 2,2'-(methylimino)diethanol; N-ethyldiethanolamine; piperazine
TERGITOL	<ul style="list-style-type: none"> • TERGITOL NP-4 - Nonylphenol polyethylene glycol ether (EO mole = 4) • TERGITOL NP-8 - Nonylphenol polyethylene glycol ether (EO mole = 8) • TERGITOL NP-9 - Nonylphenol polyethylene glycol ether (EO mole = 9) • TERGITOL NP-10 - Nonylphenol polyethylene glycol ether (EO mole = 10) • TERGITOL L-3 - Ethoxylated primary alcohol (EO mole = 3) • TERGITOL L-5 - Ethoxylated primary alcohol (EO mole = 5) • TERGITOL L-7 - Ethoxylated primary alcohol (EO mole = 7)
CARBOWAX	<ul style="list-style-type: none"> • CARBOWAX PEG300 - Polyethylene glycol (EO mole = 6) • CARBOWAX PEG600 - Polyethylene glycol (EO mole = 12) • CARBOWAX PEG1000 - Polyethylene glycol (EO mole = 20)
COMMODITY PRODUCT	<ul style="list-style-type: none"> • Butyl CARBITOL - Butyl diglycol ether • Butyl CELLOSOVE - Butyl glycol ether • B260 - Butoxytriglycol • MEG - Mono Ethylene Glycol • Ethanolamines • DEA - Diethanolamine • TEA - Triethanolamine • Methanol • <i>iso</i>-Butanol

CATEGORY	PRODUCT CODE
BIOCIDES (AMTECH 5000 SERIES)	<ul style="list-style-type: none"> • AMTECH 5000 • AMTECH 5001
POUR POINT DEPRESSANTS (AMTECH 6000 SERIES)	<ul style="list-style-type: none"> • AMTECH 6030 • AMTECH 6100
DECONTAMINANTS (AMTECH 7000 SERIES)	<ul style="list-style-type: none"> • AMTECH 7500 • AMTECH 7501
SCAVENEGERS (AMTECH 8000 SERIES)	<ul style="list-style-type: none"> • AMTECH 8000 • AMTECH 8002
FLOURESCENT DYES (AMTECH 9000 SERIES)	<ul style="list-style-type: none"> • AMTECH 9000

CATEGORY	PRODUCT CODE	DESCRIPTION / PURPOSE
DEGREASER	AMTECH 106 (Quick Dry)	AMTECH 106 is a solvent-based general purpose-cleaning compound, formulated with a unique blend of surfactants and organic cleaners. This unique blend of chemistries makes the removal of lubricant deposits easy and suitable for lubricant plant. Excellent for cleaning bi-metal lugs, bus-bars, fuse holders and most bare metal cores or parts safely to enhance their efficiency and conductivity. This product is also a non-flammable liquid, environmentally friendly and safer to handle it.
	AMTECH 107	AMTECH 107 is an effective and safe All- purpose Cleaner & Degreaser for use on any surface compatible with water. Its contains and uses the hyperactive colloidal particles (micelles) to penetrate and dislodge fat, oil, grease, protein and sugar from surfaces. AMTECH 107 simply work by causing organic substance containing hydrocarbon molecules to repel from the surface, be suspended within the cleaning solution and easily removed by rinsing with water.
	AMTECH 110 (Multipurpose Cleaner Heavy Duty)	AMTECH 110 is oil and grease stains removal cleaner, formulated for efficient oil platform cleaning with low foaming characteristic. AMTECH It consists of biodegradable non-ionic surfactants to deal with various extent of cleaning requirement range from light to heavy duty. The product shows good degreasing performance on hard metal surface without causing any corrosion and damaging to the applied surface due to the mild formulation. Using high pressure washer, the rig wash capable to clean small and narrow areas where brusher hardly each to sweep and wipe away the contaminated stains.
	AMTECH 111 (Multipurpose Cleaner Light Duty)	AMTECH 111 is an aqueous-based detergent consists of proprietary blend of non-ionic surfactants which is readily biodegradable. It provides good degreasing performance on hard surface and develops low foaming during washing that benefits cost and energy saving in rinsing step. Due to its low surface tension characteristics, this product capable to provide good wetting and degreasing properties without causing any corrosion and damaging to applied surface.
	AMTECH 114	AMTECH 114 is is an aqueous-based detergent consists of proprietary blend of non-ionic surfactants which is readily biodegradable. It provides good degreasing performance on hard surface and develops low foaming during washing that benefits cost and energy saving in rinsing step. Due to its low surface tension characteristics, this product capable to provide good wetting and degreasing properties without causing any corrosion and damaging to applied surface.
	AMTECH 115	AMTECH 115 is a green based, biodegradable industrial and institutional (I&I) multipurpose cleaner, targeted on cleaning of light to heavy oil contamination on metal surface. Emulsion based characteristics of AMTECH 115 clean oily soiled surface thermodynamically with minimum work required thus help to save energy and time consumption for additional mechanical washing such as scrubbing, brushing and wiping. Stubborn oil stained is effectively removed by AMTECH 115 by three simple steps: wetting, emulsification and solubilization, consequently leave the surface clean, spotless after rinsing with water.
	AMTECH 140 (Hand Wash)	AMTECH 140 is an effective solvent free soap with unique ecologic formulation. Extremely efficient and soft for hand. It clears all kind of dirt on hands. Gentle to the human skin yet effectively removes grease and other tough stains. It contains and uses the hyperactive colloidal particles (micelles) to penetrate and dislodge fat, oil, grease, protein and sugar from surfaces. AMTECH 140 simply work by causing organic substance containing hydrocarbon molecules to repel from the surface be suspended within the cleaning solution and easily removed by rinsing with water.

CATEGC RY	PRODUCT CODE	DESCRIPTION / PURPOSE
DEFOAMER	AMTECH 600	AMTECH 600 is the polymer of propylene glycol. Chemically it is a polyether. The term polypropylene glycol is reserved for low to medium range molar mass polymer when the nature of the end-group, which is usually a hydroxyl group, still matters.
	AMTECH 610	AMTECH 610 is a low foaming surfactant that will lower the surface tension of foams, thus causing the foam bubbles to break up and those beneath the surface to grow to the point where they are large enough to float to the surface and break. It suppresses foam during preparing drilling fluid with additives in all types of water based mud including near salt saturated water.
	AMTECH 630	AMTECH 630 is a mixture of non ionic surfactant which forming an antifoam product which has been developed for use in the oil and gas industry to solve foaming problems in the following systems: <ul style="list-style-type: none"> • Sea water deaeration towers • Water systems in general
	AMTECH 660	AMTECH 660 is a solution of highly concentrated sulfonate salt used effective in aqueous or low water applications and also in oil and gas separation. The product accelerates the release of dissolve gases, reduces foam carryover and increases separation efficiency.
DESCALER	AMTECH 1080	AMTECH 1080 is a blend of non-hazardous, non-corrosive, biodegradable descaler. It is designed to remove carbonate (CO ₃) based deposits. It also has the ability to dissolve and remove deposits caused by corrosion byproducts (e.g.: Iron Carbonate, Zinc Carbonated). It is designed to dissolve carbonate deposits found in all types of water operated equipment such as boilers, cooling towers including galvanized towers, closed loops, heat exchangers and aluminum molds.
	AMTECH 1081	AMTECH 1081 is a blend of an aqueous salt solution and as such, it should not be considered hazardous when used under normal conditions. Laboratory testing shows this material to be biodegradable. This biodegradable product is very efficient in removing a scale, rust and marine growth from heat exchangers, boilers, outboard motors, heating systems, car engine maintenance and etc.
	AMTECH 1082	AMTECH 1082 is a blend of an aqueous salt solution and as such, it should not be considered hazardous when used under normal conditions. Laboratory testing shows this material to be biodegradable. This biodegradable product is very efficient in removing a scale, rust and marine growth from heat exchangers, boilers, outboard motors, heating systems, car engine maintenance and etc.

CATEGC RY	PRODUCT CODE	DESCRIPTION / PURPOSE
SCALE INHIBITOR	AMTECH 1100	AMTECH 1100 is a specialized blend of phosphonate based water soluble scale inhibitors suitable for high temperature and high pressure environment. It is an excellent Calcium Carbonate, Calcium Sulfate and even Barium and Strontium Sulfate inhibitor suitable for applications where the mentioned mineral scales are a problem. The product is an excellent threshold inhibitor with added sequestering function, making it suitable also for Iron deposit inhibition.
	AMTECH 1153	AMTECH 1153 is concentrated water and brine soluble organic phosphonate developed for formulating scale inhibitors for use in water flood operations, water disposal systems and producing oil wells. Formulations with AMTECH 1153 are highly effective in inhibiting both Calcium Carbonate and Sulfate scale formation by interruption of the crystal growth process. AMTECH 1153 exhibits excellent thermal stability.
CORROSION INHIBITOR	AMTECH 1554	AMTECH 1554 is a water-soluble, oil dispersible corrosion inhibitor that offers excellent protection from both CO ₂ and H ₂ S corrosion. It is effective in oil production conditions.
	AMTECH 1555	AMTECH 1555 is a blend on an Imidazoline salt that produces a very effective and stable film on downhole and process surfaces, together with a novel Amine derivative, which improves the water solubility of the product. It is a water-soluble, highly oil dispersible organic corrosion inhibitor. It has been designed for use in pipelines and production equipment for the protection of oil and gas process systems. Being water soluble, AMTECH 1555 corrosion inhibitor will effectively protect water-treatment facilities downstream of production equipment. AMTECH 1555 inhibitor has been specifically developed for high shear applications, typically found in gas systems. It is an effective corrosion inhibitor against both sweet, CO ₂ and sour, H ₂ S corrosion.
	AMTECH 1556	AMTECH 1556 is oil-soluble, water-dispersible, film forming corrosion inhibitor for use in gas-production systems and is effective against both "sweet" and "sour" corrosion. AMTECH 1556 inhibitor is specifically designed for continuous injection in gas transmission lines, gas storage systems and especially where it is likely to come in contact with gas compression units. The product at high temperatures without gunking in the system. It promotes removal of fouling material in gas compressors, prevents additional fouling and inhibits the corrosion process.
	AMTECH 1557	AMTECH 1557 is oil-soluble, water-dispersible, film forming corrosion inhibitor for use in gas-production systems and is effective against both "sweet" and "sour" corrosion. AMTECH 1557 inhibitor is specifically designed for continuous injection in gas transmission lines, gas storage systems and especially where it is likely to come in contact with gas compression units. The product at high temperatures without gunking in the system. It promotes removal of fouling material in gas compressors, prevents additional fouling and inhibits the corrosion process.
	AMTECH 1558	AMTECH 1558 is a corrosion inhibitor base developed especially to meet the needs of the oil and gas industry. AMTECH 1558 is a high quality based Imidazoline that has the potential to be formulated to meet a broad spectrum of inhibitor requirements. AMTECH 1558 formulations will provide excellent protection in most treating environments. Depending upon the method of preparation, AMTECH 1558 formulations are effective in producing well, pipeline and water handling applications.

CATEGORY	PRODUCT CODE	DESCRIPTION / PURPOSE
CORROSION INHIBITOR	AMTECH 1559	AMTECH 1559 is a water-soluble, highly oil dispersible organic corrosion inhibitor. It is a blend of an Imidazoline salt with other surfactants. It has been formulated to prevent CO ₂ and H ₂ S corrosion in pipelines and production equipment in oil and gas process systems. AMTECH 1559 has been specifically developed for high shear applications, typically found in gas systems. Furthermore, in testing performed by an independent laboratory, 50 ppm of AMTECH 1559 has reduced the corrosion rate to less than 0.1 mm/yr at temperatures up to 120 °C under both sweet (3 bar CO ₂) and sour conditions (1 bar H ₂ S).
	AMTECH 1560	AMTECH 1560 is oil-soluble, water-dispersible, film forming corrosion inhibitor for use in gas-production systems and is effective against both "sweet" and "sour" corrosion. AMTECH 1560 inhibitor is specifically designed for continuous injection in gas transmission lines, gas storage systems and especially where it is likely to come in contact with gas compression units. It also provides excellent protection making it an ideal product for downhole treating. The product performs at high temperatures without gunking in the system. It promotes removal of fouling material in gas compressors, prevents additional fouling and inhibits the corrosion process. AMTECH 1560 inhibitor contains film-forming Amines and a demulsifier in an aromatic/aliphatic solvent system. It is thermally stable up to 350 °F (177 °C).
DEMULSIFIER	AMTECH 2005	AMTECH 2005 is a demulsifiers which are very effective synergistic blends of high molecular weight oxyalkylated glycols, oxyalkylated resins and amines in heavy aromatic solvent. The actual formulations of AMTECH 2005 will be based on bottle tests conducted on actual fresh crude samples. Any dilutions of AMTECH 2005 Series should be made using an aromatic solvent.
	AMTECH 2010	AMTECH 2010 is very effective synergistic blends of high molecular weight oxyalkylated glycols, oxyalkylated resins and amines in heavy aromatic solvent. The actual formulations of AMTECH 2010 will be based on bottle tests conducted on actual fresh crude samples. Any dilutions of AMTECH 2010 Series should be made using an aromatic solvent.
DEOILER	AMTECH 2552	AMTECH 2552 dispersions are low to medium molecular weight, water soluble, cationic, acrylamide-based copolymers supplied as oil free dispersions of polymer in water. They are effective over a pH range of 3 – 10. Its dispersions can be used to treat waste water produced by a wide variety of oil industry operations. It functions by bridging between oil droplets and/or suspended solids to form a large agglomerated mass or floc which can be easily removed. It can be effectively utilized in a broad range of liquid-solid separation processes.
	AMTECH 2553	AMTECH 2553 is a solution of an anionic polymer for use as a metal precipitating agent. It is effective over the pH range of 3 – 10.
	AMTECH 2555	AMTECH 2555 is a high molecular weight, acrylic emulsion copolymer for use as a flocculant in oilfield water clarification. The product is supplied in an acidic form and requires neutralization before use. Its functions by reducing the repulsive surface charges on oil droplets and certain organic and inorganic particulates found in produced oilfield waters. This helps promote the formation of a larger floc and improves settling or filtration rates. It is often used in conjunction with inorganic coagulants or cationic polyelectrolytes.

CATEGORY	PRODUCT CODE	DESCRIPTION / PURPOSE
DEOILER	AMTECH 2557	AMTECH 2557 is high molecular weight polymer with high charge polymer. They are applied to the wastewater containing great quantity of organic colloid such as the wastewater from dyeing, papermaking, and petroleum industries.
	AMTECH 2560	AMTECH 2560 dispersions are low to medium molecular weight, water soluble, cationic, acrylamide-based copolymers supplied as oil free dispersions of polymer in water. They are effective over a pH range of 3 – 10. Its dispersions can be used to treat waste water produced by a wide variety of oil industry operations. It functions by bridging between oil droplets and/or suspended solids to form a large agglomerated mass or floc which can be easily removed. It can be effectively utilized in a broad range of liquid – solid separation processes such as settling, thickening, dissolved air flotation and centrifugation.
BIOCIDES	AMTECH 5000	<p>AMTECH 5000 is water-soluble concentrated biocide for use in oil, water and gas production. It also recommended for used in open recirculating water system. AMTECH 5000 is glutaraldehyde based compound and posses the following special properties:</p> <ul style="list-style-type: none"> • Able to remove established biofilm and inhibit re-growth • Broad spectrum biocide kills aerobic and anaerobic microorganism, including sulphate-reducing bacteria • Kills algae and remove algae deposits • Effective in broad range of pH and temperature • Fast acting • Odorless and non-corrosive to metals at recommended use level • Chemically compatible with common corrosion and scale inhibitor and dispersant • Surface action facilitate penetration to microorganisms protected by biologically or chemical induced fouling • Water soluble, easy to mix and dilute uniformly
	AMTECH 5001	AMTECH 5001 is a new class of anti-microbial agent which offers superior anti-microbial activity controlling the growth of bacteria, algae and fungi, with minimum effects on the environment. AMTECH 5001 is THPS based compound. THPS's benefits include low toxicity, low dosage and rapid breakdown in the environment.
POUR POINT DEPRESSANT	AMTECH 6030	AMTECH 6030 is the pour point depressant which especially developed for the treatment of crude oils. It is used to lower the pour point by acting directly on the paraffinic crystal growth. In addition, its molecular structure provides excellent dispersing properties allowing the paraffinic microcrystal to remain in suspension. In this respect, AMTECH 6030 prevents paraffin deposition.
	AMTECH 6100	AMTECH 6100 is one of the pour point depressant which especially developed for the treatment of crude oils. It is used to lower the pour point by acting directly on the paraffinic crystal growth. In addition, its molecular structure provides excellent dispersing properties allowing the paraffinic microcrystal to remain in suspension.

CATEGORY	PRODUCT CODE	DESCRIPTION / PURPOSE
DECONTAMINANT	AMTECH 7500	<p>AMTECH 7500 is a specifically formulated chemical that will eliminate toxic gases and hydrocarbon vapor during plant turnaround and storage tank decontamination. AMTECH 7500 is water soluble and contains alcohol ethoxylate based compound with special enzymes cultured in the complex detergent system. It is effective in removing contaminants produced by various systems in oil/gas production and petrochemical plants.</p> <p>It is extremely fast acting and works by converting hydrogen sulfide and hydrocarbon vapor into water-soluble compound with low Chemical Oxygen Demands (COD). AMTECH 7500 will deactivate phyroporic materials such as iron sulfide and polymers during decontamination thus dramatically reducing the risk phyphoric oxidation and ignition of ambient hydrocarbon-air mixtures.</p> <p>AMTECH 7500 cleans the walls of a vessel and leaves a microscopic surfactant film preventing the release of vapor from any scale that may remain. This is vital when there are traces of mercury in the system.</p>
	AMTECH 7501 (Mercury Decontaminant)	<p>AMTECH 7501 is a formulated chelating agent, designated to transform elemental and compound mercury found in vapor into stable mercury salt in an aqueous form. It is a powerful solution that is able to capture mercury vapor from the atmosphere. AMTECH 7501 is formulated to function aggressively at both elevated and ambient temperatures. The product contains additives to ensure compatibility with various system, materials and various application methods.</p>
SCAVANGER	AMTECH 8000 (H2S Scavenger)	<p>AMTECH 8000 is the H2S gas scavengers which remove hydrogen sulfide (H2S) from process systems to improve safety, protect equipment and meet sales specifications.</p> <p>For safe, effective removal of H2S in ranges from 1-to-200 pounds per day, AMTECH 8000 are available in a variety of formulations for complete and partial H2S removal in oil- and water-soluble applications. Where scavenger-induced calcium carbonate scaling is a problem, and it provides an effective scale inhibitor.</p>
	AMTECH 8002 (Oxygen Scavenger)	<p>AMTECH 8002 is a solution of highly concentrated ammonium bisulfite used to effectively remove dissolved oxygen to trace level at low operating temperature. The product is highly effective in minimizing the effect of oxygen corrosion in various industrial applications with or without mechanical deaeration units.</p>
FLOURESCENT DYE	AMTECH 9000	<p>AMTECH 9000 is specializes in the provision of subsea leak detection services for the offshore pipeline industry. It help to prevent serious environmental damage by promptly detecting the leakage of hydrocarbons - whether gas or oil - from risers, subsea control systems, water injection systems and other subsea facilities. This product is capable of detecting very small leaks and has been used successfully for a number of years by oil companies and offshore operators worldwide.</p>

COMPANY EXPERIENCE

No	CLIENT	CONTRACT/ DESCRIPTION OF WORK	CONTRACT NO.	CONTRACT VALUE (RM)	START	END
1	NEWFIELD PENINSULA MALAYSIA INC. Level 53, Tower 2, Petronas Twin Towers Kuala Lumpur City Centre 58000 Kuala Lumpur	Provision of Production Chemical Supply and Associated Services for Newfield Peninsula Malaysia Inc. Operations/ Supply and Delivery of Chemicals and Associated	C-NFX-PM323-OPS-7050	7.5m	30 November 2007	29 August 2011
2	PETRONAS Carigali Sdn Bhd Sarawak Operations PETRONAS Carigali Building Jalan Sekolah, Lutong P.O Box 1452 98008, Miri Sarawak, Malaysia	Provision of Scale Inhibition, Topside Descaling and Associated Services for PETRONAS Carigali Sdn. Bhd. – Sarawak & Sabah Operations (PCSB – SKO & SBO)/ Supply and Delivery of Scale Inhibitor, Descaling Job and Associated Services	S07/R5/178	13.4m	01 July 2008	06 July 2013
3	PETRONAS Carigali Sdn Bhd Sarawak Operations PETRONAS Carigali Building Jalan Sekolah, Lutong P.O Box 1452 98008, Miri Sarawak, Malaysia	Provision of Supply and Delivery of Corrosion Inhibitor of Crude System and Associated Services for PETRONAS Carigali Sdn Bhd Sarawak and Sabah Operations (PCSB – SKO & SBO) for a Period of Six (6) Months / Supply and Delivery of Corrosion Inhibitor and Associated Services	SKO/2009/BRE5/097	8.4m	04 April 2010	03 March 2011

No	CLIENT	CONTRACT/ DESCRIPTION OF WORK	CONTRACT NO.	CONTRACT VALUE (RM)	START	END
4	FPSO Ventures Sdn Bhd Level 9, Menara Perak No. 24, Jalan Perak 50450 Kuala Lumpur	Price Agreement for Supply and Delivery of Corrosion Inhibitor for FPSO Ventures Sdn Bhd Supply and Delivery of Corrosion Inhibitor	FVSB/ACSB/OA/CI/01-2011/L/001	58,000.00	12 January 2011	31 December 2011
5	PETRONAS Carigali Sdn Bhd Peninsular Malaysia Operations PETRONAS Operation Complex 24300 Kerteh, Kemaman Terengganu	Supply and Delivery of Deoiler, Corrosion Inhibitor, Descaler/ Scale Inhibitor and Associated Services for PETRONAS Carigali Sdn Bhd Peninsular Malaysia and Sabah Operations / Supply and Delivery of Deoiler, Corrosion Inhibitor, Descaler/ Scale Inhibitor and Associated Services	P8A/C5/X295-A	50m	23 January 2011	26 January 2016
6	PETRONAS Carigali Sdn Bhd Sarawak Operations PETRONAS Carigali Building Jalan Sekolah, Lutong P.O Box 1452 98008, Miri Sarawak, Malaysia	Provision of Scale Inhibition, Topside Descaling and Associated Services for PETRONAS Carigali Sdn. Bhd. – Sarawak & Sabah Operations (PCSB – SKO & SBO)/ Supply and Delivery of Scale Inhibitor, Descaling Job and Associated Services	SKO/2013/BPDB/0010	10m	01 January 2014	31 December 2015

No	CLIENT	CONTRACT/ DESCRIPTION OF WORK	CONTRACT NO.	CONTRACT VALUE (RM)	START	END
7	HESS Exploration and Production Malaysia B.V Level 14, Menara 3 PETRONAS KLCC, 50088 Kuala Lumpur	Provision of Produced Water Chemicals Supply and Services/ Supply and Delivery of Demulsifier, Water Clarifier and Associated Services	HESS/2014/064	5m	11 August 2014	10 August 2016
8	Kebabangan Petroleum Operating Company Sdn Bhd Level 52, Tower2, PETRONAS Twin Towers, Kuala Lumpur City Centre, 50088 Kuala Lumpur Kebabangan Petroleum Operating Company Sdn. Bhd. (KPOC) Wisma 2 & Wisma 3,1 Sulaman, Jalan Sulaman, 88400 Kota Kinabalu, Sabah, Malaysia	Provision of Triethylene Glycol for Kebabangan Petroleum Operating Company Sdn Bhd. Supply and Delivery of Triethylene Glycol and Associated Services	KPOC/CB/15/773	3m	11 September 2015	10 September 2017
9	PETRONAS Carigali Sdn Bhd Sarawak Operations PETRONAS Carigali Building Jalan Sekolah, Lutong P.O Box 1452 98008, Miri Sarawak, Malaysia	Provision of Scale Inhibition, Topside Descaling and Associated Services for PETRONAS Carigali Sdn. Bhd. – Sarawak & Operations (PCSB – SKO) / Supply and Delivery of Scale Inhibitor, Descaling Job and Associated Services	SKO/2015/BPDB/0010	15m	01 January 2016	31 December 2018

No	CLIENT	CONTRACT/ DESCRIPTION OF WORK	CONTRACT NO.	CONTRACT VALUE (RM)	START	END
10	PETROFAC (Malaysia –PM302) Limited Level 50, Tower 2, PETRONAS Twin Towers, Kuala Lumpur City Centre, 50088 Kuala Lumpur	Provision to Supply Water Clarifier AM2503 and Associated Services for PETROFAC (Malaysia-PM304) Limited. Supply and Delivery of Water Clarifier AM2503 and Associated Services.	PM304/SO/11/117	2.4m	11 November 2011	Renewal by yearly basis.
12	Oman Oil Industry Supplies & Services Co. LLC P.O.Box 510, Ruwi Postal Code 112 Sultanate of Oman	Supply and Delivery of Wax / Paraffin Inhibitor for Oman oil industry supplies & services co. llc	P.O No.: AMT-137/09 (Ad-Hoc Purchase)	374,000.00	11 May 2009	Work Order basis.
13	MALAYSIA VIETNAM OFFSHORE TERMINAL LIMITED Suite 8.05, Level 8, The Garden North Tower, Mid Valley City, Lingkaran Syed Putra 59200 Kuala Lumpur	Supply and Delivery of Pour Point Depressant (AM 6030) for Malaysia Vietnam Offshore Terminal Limited	P.O No.: MOVT/ORKID/PO	3,789.50	17 June 2009	Work Order basis for Field Trial, Orkid Platform.
11	SARAWAK SHELL BERHAD, Locked Bag No. 1, 98009, Lutong, Sarawak. Ms. Lina Aren Ding	Supply and Delivery of Corrosion Inhibitor	Ad-Hoc Purchase	4,340.00	26 March 2008	-

No	CLIENT	CONTRACT/ DESCRIPTION OF WORK	CONTRACT NO.	CONTRACT VALUE (RM)	START	END
12	Sabah Shell Petroleum Company Limited, c/o Sarawak Shell Berhad, Locked Bag No. 1, 98009, Lutong, Sarawak. Miss Jill Hilary	Supply and Delivery of Biocide	Ad-hoc Purchase	53,395.32	02 October 2007	-
13	TANJUNG OFFSHORE SERVICES SDN BHD No. 8-3, Jalan Puncak Setiawangsa 4 Taman Setiawangsa 54200 Kuala Lumpur En. Azmel Hafiz Aziz / Tuan Haji Hamidon	Supply and Delivery of Degreaser	Ad-hoc Purchase	6,000.00	07 September 2006	-
14	Ramunia Holdings Berhad Ramunia Yard No. 437, Teluk Ramunia 81620 Pengerang, Johor En. Md Ali Mohd Yusof / En. Ali Salleh	Supply and Delivery of Corrosion Inhibitor	Ad-hoc Purchase	7,100.00	14 June 2006	-
15	Exxon Mobil Exploration & Production Malaysia Inc (EMEPMI) Tuan Syed Halim / Puan Rohaya	ADR (Crude Drag Reducer)	Ad-hoc Purchase	65,100.00	13 September 2005	-