MOSTI

15years
1996-2011
Advancing Standards
and Accreditation

STANDARDS
MALAYSIA

2011 Annual Report

Taking
STANDARDS MALAYSIA
to the Next Level

The year 2011 marked another milestone for **STANDARDS MALAYSIA** as we celebrated our organisation's 15th anniversary. With the launching of the Economic Transformation Programme (ETP) in year 2010, **STANDARDS MALAYSIA** is directly involved under Strategic Reform Initiatives (SRI) Competition, Standards and Liberalisation (CSL) which is the enabler to the National Key Economic Areas (NKEA). This further underscored the importance and relevance of **STANDARDS MALAYSIA** since our formation on August 28, 1996, to serve as the custodian of standards and accreditation for the country. This also further pushed us to take **STANDARDS MALAYSIA** to the next level by making greater positive impacts on national economic development as the country marches ahead to achieve Vision 2020.

In continuing to play our role as the sole National Standards and Accreditation body in overseeing all activities related to standards and accreditation in the country, we remain guided by our Vision and Mission.

VISION
Accepted by Malaysians, Recognised by the World.

MISSION
To provide credible standardisation and accreditation services to enhance economic, societal and environmental well-being.
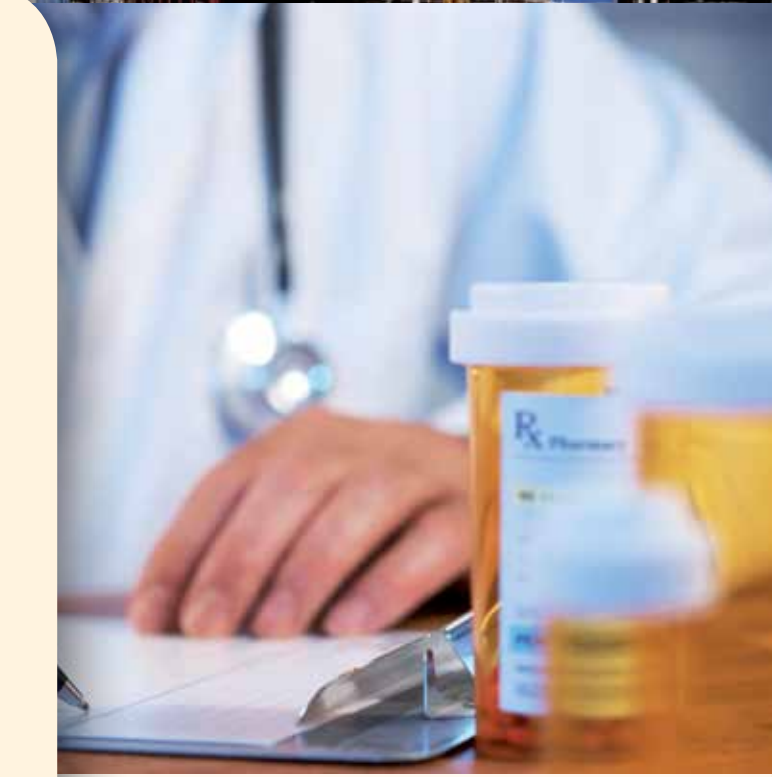
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ACHIEVING ECONOMIC
EXCELLENCE TOGETHER

MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION (MOSTI): The umbrella body responsible for the advancement of Science, Technology and Innovation (STI) in Malaysia.

STANDARDS MALAYSIA: Agency under MOSTI established as the sole National Standards and Accreditation Body to oversee standards and accreditation activities in the country.

TOGETHER, MOSTI and STANDARDS MALAYSIA will harness all resources to help drive the Government's Economic Transformation Programme (ETP) and ensure that standards and accreditation will be part of the effective enablers for the development of the country's NKEAs.

ENGAGING INDUSTRIES
TO ADVANCE STI

The Minister of Science, Technology and Innovation, YB Datuk Seri Panglima Dr. Maximus Johnity Ongkili, leads MOSTI and all its agencies in making STI highly relevant in the Government's initiatives to transform the country into a high-income nation with inclusiveness and sustainability, as spelt out in the country's New Economic Model. This phase of transformation, from a middle-income to high-income nation, requires a shift towards higher value-add and knowledge intensive activities, including accelerating specialisations in STI. Both standards and accreditation are the sub-sectors of STI that have proven to be the effective tools for our country to enhance and improve the marketability of Malaysian products and services locally and internationally. The Minister has continuously driven home this point to help ensure that Malaysian industries remain competitive. This is achievable with the cooperation of all industry players and the support provided by the Minister who takes a leading role in engaging the industries to work together in further advancing STI.

Minister of Science, Technology and Innovation
YB Datuk Seri Panglima Dr. Maximus Johnity Ongkili

MAKING STANDARDS
AND ACCREDITATION HIGHLY RELEVANT

STANDARDS MALAYSIA has turned out to be a credible organisation within MOSTI, thanks to the guidance of MSAC Chairman, YBhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali. YBhg. Tan Sri has consistently been supportive of the initiatives taken by STANDARDS MALAYSIA to provide credible standardisation and accreditation of conformity assessment services that help facilitate Malaysian products and services to achieve a competitive advantage internationally. Additionally, emphasis has continuously been given to the safety, health and the well-being of the people as well as the environment while at the same time making standards and accreditation highly relevant in industries. YBhg. Tan Sri also advocates that science and research and development (R&D) are the key to sustained innovation, which has a strategic role in nation-building. YBhg. Tan Sri has been giving the much needed advisory services to help MOSTI and STANDARDS MALAYSIA address various challenges.

Chairman, Malaysian Standards and Accreditation Council
YBhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali

APPRECIATION FOR SUPPORT AND COMMITMENT

We are grateful to not only the Minister of Science, Technology and Innovation and the MSAC Chairman but also all members of MSAC, everyone in MOSTI, members of Committees and STANDARDS MALAYSIA at all levels for their unwavering support and commitment in helping us to discharge our duties effectively. Our appreciation also goes to all our external partners, encompassing organisations and individuals, whose contributions have been vital in addressing the needs of the different sectors.

WELL POSITIONED TO MOVE AHEAD

STANDARDS MALAYSIA comes under the stewardship of MOSTI with MSAC providing advisory services on matters of various interests, such as standardisation and accreditation functions, Government and regulatory functions, trade and industry, professional bodies and consumer bodies. In international standardisation and accreditation activities, STANDARDS MALAYSIA represents Malaysia through our membership with the International Organization for Standardization (ISO) and the International Electro-technical Commission (IEC). Within our setup are various establishments with clearly defined tasks and goals that help the entire organisation to galvanise all resources and move ahead to achieve not only the overall organisational goals but also to meet national requirements and expectations. The Organisation Chart below shows the different levels of leaderships and the establishments involved in standards and accreditation activities in Malaysia.

ORGANISATION CHART

MINISTER OF SCIENCE, TECHNOLOGY AND INNOVATION

MALAYSIAN STANDARDS AND ACCREDITATION COUNCIL (MSAC)
Provide advisory services and submit recommendations to the Minister. Council members represent various interests, such as in standardisation and accreditation functions, Government and regulatory functions, in education, trade and industry, professional bodies and consumer bodies.

Malaysian National Standards Committee (MyNSC)
Recommend strategies, programmes and activities to promote industrial efficiency and development and to protect consumers through standardisation. Recommend priorities, criteria and procedures related to standards development in Malaysia.

Malaysian Electro-technical National Committee (MyENC)
Represent Malaysia's interest in relevant working groups, the International Electro-technical Commission (IEC) and its various committees. Recommend national representation in meetings and submit appropriate documentations and proposals. Co-ordinate and formulate a national stand in respect of IEC-related matters.

Malaysian National Accreditation Committee (MyNAC)
Provide advice on accreditation matters. Recommend accreditation criteria, requirements, policies and procedures. Assist in the review of accreditation procedures and operations.

Malaysian National Medical Testing Accreditation Committee (MyNMTAC)
Represent Malaysia's interest in all matters pertaining to medical laboratory accreditation. Recommend national representation in meetings and submit appropriate documentations and proposals. Co-ordinate and formulate a national stand in respect of all matters related to standardisation and accreditation of medical laboratory.

Malaysian Good Laboratory Practice Committee (MyGLPC)
Provide expert advice to the Council on GLP compliance matters. Establish compliance criteria, requirements, policies and procedures for the consideration of the Council. Assist and facilitate in the review of compliance procedures and operations.

MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION (MOSTI)
Secretary General

DEPARTMENT OF STANDARDS MALAYSIA (STANDARDS MALAYSIA)
Director General (as ex officio of MSAC)

POLICY AND STANDARDS DIVISION
Senior Director, Policy and Standards
Implement policies and strategies for national standardisation. Recommend approval of MS and promote their use. Represent Malaysia in international standardisation activities. Promote co-operation in standardisation activities in and outside Malaysia.

STRATEGIC MANAGEMENT SECTION
Director of Strategic Management
Formulate, evaluate and monitor policies and strategies to promote and position STANDARDS MALAYSIA at the national and international levels. Build and enhance internal infrastructure to provide support for the department in performing its core activities.

ACCREDITATION DIVISION
Director of Accreditation
Accredit organisations engaged in conformity assessment activities. Maintain a register of accredited organisations and their marks of conformity. Represent Malaysia in international accreditation activities. Facilitate international recognition of accredited organisations and certificates.

MANAGEMENT SERVICES DIVISION
Director of Management Services
Provide administrative support and management services, including human resource development and financial management.

LEADERSHIP AT MINISTERIAL AND COUNCIL LEVELS

YB Datuk Seri Panglima Dr. Maximus Johnity Ongkili
Minister of Science, Technology and Innovation

YBhg. Dato' Madinah Mohamad
Secretary General, Ministry of Science, Technology and Innovation

YBhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali
Chairman, Malaysian Standards and Accreditation Council

Members of MSAC

- YBhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali
- The late YBhg. Dato' Ir. Hj. Yahaya Ahmad (replaced by Mr. Azim Ng Abdullah)
- YBhg. Dato' Wahab Hamid (retired and replaced by Mr. N. Parameswaran)
- YBhg. Datin Mahani Tan Abdullah
- YBhg. Dato' Dr. Ir. Andy K H Seo
- YBhg. Datuk Dr. Soon Ting Kueh
- YBhg. Datuk Marimuthu Nadason
- YBhg. Tan Sri Dato' Mohd. Ramli Kushairi
- YBhg. Dato' Sharifah Zarah Syed Ahmad
- Mr. Yogeesvaran Kumaraguru
- YBhg. Dato' Kamaruddin Ismail (retired and replaced by Tuan Hj. Amran Hj. Sameon)
- Dr. Ir. Shamsudin Hj. Ab. Latif
- YBhg. Datuk Aishah Ahmad
- YBhg. Ir. Dr. Abdul Majid Dato' Abu Kassim
- YBhg. Dato' Ir. Dr. Johari Basri

Co-opted Members

- YBhg. Datuk Dr. Noor Hisham bin Abdullah
  Chairman MyNMTAC
- YBhg. Datuk Ir. Ahmad Fauzi bin Hasan
  Chairman MyENC
- Ir. Tuan Hj. Mah Lok Abdullah
  Chairman MyNAC
- Mr. Edmund Wong Hock Vui
  Department of Industrial Development & Research Sabah
- Mr. Edward Nyalang Banda
  Ministry of Industrial Development Sarawak

MANAGEMENT LEVEL

Policy and Standards Division

From left to right:
Mohd Azrul, Mohd Shafiq, Feris, Mohd Fahmi, Ridzwan, Wan Rukiman, Ahmad Haziq, Mohd Hazwan and Mohd Noorhafiz.

From left to right:
Anuratha, Hurul Aini, Noraiza, Nurul Shafira, Nor Latifah, Sharifah Azlinda, Fakheezah, Siti Raikhan Aina and Ainal Fatiha.

2 Ridzwan Kasim
Senior Director of Policy and Standards

1 Fadilah Baharin
Director General

3 Shaharul Sadri Alwi
Director of Accreditation

4 Rafaiq Bakri Zakaria
Director of Strategic Management

5 Lim Chai Chong
Director of Management Services

Accreditation Division

From left to right:
Nor Fatimah, Nor Faezah, Jessica, Siti Hajar, Nurul Nadiah, Shaharul Sadri, Rosnieh, Saadiah, Mohd Hamzaini, Noraidah and Ahmad Husaini.

From left to right:
Siti Norehan, Siti Rohaya, Rohasmizah, Wong Fei Ting, Siti Mariam, Mohammad Yusof, Chen Soo Fatt, Julaina, Sabariah, Norhaliza, Hanizawati and Shahrul.

Strategic Management Section

From left to right:
Azwan, Nik Mohd Syazwan, Mohd Abdul Faiz, Roslee, Muhammad Ashraf, Ahmad Razif, Kee Lai Sien, Nik Nazira, Rafaiq Bakri, Maggery Roxane, Nursyahfawati, Aainaa Kamilah, Normaliza, Siti Sarah, Siti Nurulhuda and Mazleen.

Administration Division

From left to right:
Zainab, Siti Aishah, Noramirah, Roslina, Munirah, Norwanis, Wong Seow Kim, Lim Chai Chong, Nor Faiza, Nur Rihan, Syarafinas, Syazana Liyana, Kamaruddin, Ghazali and Sawalludin.

KEEPING STANDARDS MALAYSIA ON A HIGH GEAR

OPERATIONAL REPORT
BY DIRECTOR GENERAL OF
STANDARDS MALAYSIA
MADAM FADILAH BAHARIN

In 2011, we celebrated STANDARDS MALAYSIA's 15th anniversary. It was a momentous occasion as STANDARDS MALAYSIA has come a long way since our formation on August 28, 1996 to become a highly relevant agency that has pushed standards and accreditation as two of the essential tools to help accelerate industrial development and growth.

This was achievable by having high quality standards and strict conformity assessment practices to be complied with and adopted by industries in Malaysia. Such compliance and adoption enabled the industries to produce locally and globally marketable Malaysian-made products. Additionally, standards and accreditation were also used to enhance and protect the safety and well-being of the people

as well as safeguard the environment with the introduction of various relevant standards and accreditations.

The push to use standards and accreditation as the tools to help propel economic growth further became much greater under the Economic Transformation Programme (ETP). Under ETP, standards which have been included under Competition, Standards and Liberalisation (CSL) are a part of the Government's Strategic Reform Initiatives (SRIs) and have been highlighted as one of the enablers for the National Key Economic Areas (NKEAs).

Being one of the SRIs is an important milestone for STANDARDS MALAYSIA. We have contributed significantly to establish Malaysia as a standard-setter in niche areas such as the halal sector, where STANDARDS MALAYSIA has published varied standards from food and cosmetics to pharmaceutical all of which are aimed to protect the interests of Muslim consumers. Compliance with standards could also be used to substitute tariffs for the purpose of import control that would be consistent with the global move towards market liberalisation.

CSL forms one of six Strategic Reform Initiatives (SRIs) which are part of the Government's current policy measures. As the custodian of standards, STANDARDS MALAYSIA plays a crucial role within the standards component of SRI CSL. Among the recommended measures to be spearheaded by STANDARDS MALAYSIA are: 1) adoption of international standards to increase market access, 2) internationalisation of Malaysian Standards (MS) by leveraging on the indigenous standards that are unique to Malaysia's niche market, and increase international recognition through acceptance of standards by foreign countries, and 3) promotion and effective compliance as well as the establishment of a governance structure through an efficient standards development process, and improvement of the existing governance mechanism that facilitates the implementation of standards.

Under SRI CSL, the Government has identified six sectors as an "entry point" approach. These are (1) Health Care – Halal Pharmaceutical Supplement; (2) Health Care – Medical Devices; (3) Agriculture – Pineapple; (4) Agriculture – Production of Carrageenan from Seaweed; (5) Cyber Security – Information Security Standards; and (6) Green Label – Environment and Safety. The early phase of SRI CSL will primarily involve the development of these sectors and their required MS, which must eventually meet global demands and achieve international recognition and other successes as identified under the goals of SRIs.

Crucial parts of CSL are the benefits of standards within Malaysia's value chain (from product procurement and manufacturing to supply and customer service); adoption of relevant international standards, including to achieve sustainability that covers economic, environmental and social dimensions; adoption of international quality standards for goods and services to boost investments and exports; conversion of existing Malaysian Standards (MS) into international standards and standards compliance.

It has indeed taken us a long time to be where we are today, and to make a strong impact on the nation, especially in supporting the country's Gross Domestic Product (GDP) growth through continuous transformation process. In this respect, the only way for STANDARDS MALAYSIA to contribute effectively towards the nation's transformation process is to shift to an even higher gear to ensure that standards and accreditation will meet the development goals of NKEAs.

Memorandum of Understanding (MoU) between Malaysia and the Republic of Uganda

MAKING IMPACT
on Trade and Consumerism

In developing standards, STANDARDS MALAYSIA collaborates with many parties in both the private and public sectors, including other ministries. One of them is the Ministry of Domestic Trade, Co-Operatives and Consumerism. According to the Ministry's Deputy Secretary General (Consumerism and Management), YBhg. Datin Mahani Tan Abdullah, the Ministry has dual roles – to encourage the flourishing of industries while at the same time protecting their interests as well as to protect the interests of consumers. YBhg. Datin Mahani acknowledges that standards can serve as a useful tool to protect both industries and consumers. Standards have in fact become an increasingly powerful tool particularly in the protection of consumers in areas pertaining to public health, safety and the environment. In addition, she says the application of standards and accreditation not only assists in the development and commercialisation of new technologies but also facilitates the growth of national and international trade. Standards also help promote trade efficiency both domestically and internationally.

One of the key projects undertaken by the ministry in collaboration with STANDARDS MALAYSIA is the development of Malaysian Toy Safety Requirements that have made a major impact on the market. The MS for toys, namely MS ISO 8124 Parts 1 to 3, MS 1774 Parts 4 to 6, and MS 1725 were developed by taking into consideration, among others, the safety aspects related to mechanical and physical properties of toys, flammability risks, migration of certain elements, safety of electric toys and graphic symbol for age warning labelling.

YBhg. Datin Mahani Tan Abdullah

The enforcement of toys safety standards regulations beginning from 2010 is not only crucial in order to protect

the safety of consumers but it is also a critical foundation for the toy industry (importers, local manufacturers and those doing toy packaging). Companies which have already complied with toys safety standards in supplying safe toys to the market before the enforcement date were easily able to adhere to the regulations while sustaining their profit margins compared to those which have never previously complied with the standards before.

Collaboration between STANDARDS MALAYSIA and the ministry also facilitates the use of MS in the development of technical regulations which is in line with Government's policy to use MS. Good Regulatory Practices (GRP) in the development of technical regulations is applied by adhering to requirements (i.e. notification) set by the World Trade Organization (WTO) in order to facilitate international trade.
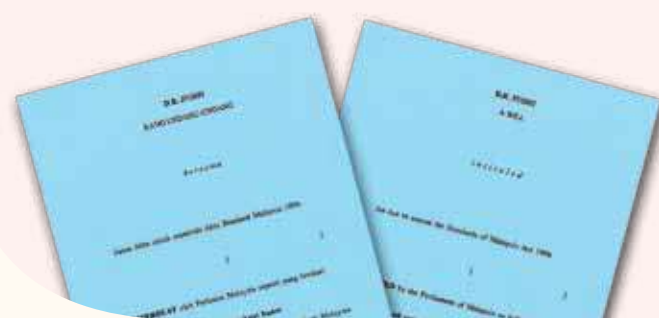
In the development of standards in Malaysia, STANDARDS MALAYSIA recognises the contribution of the ministry by its active participation in most technical standards drafting committees either domestically or internationally in order to protect consumers and national interests.

On the aspect of consumerism, one of the ministry's key roles is to inculcate consumer rights and responsibilities, minimise the negative impact on consumer behaviour on the economy and environment, encourage a sustainable consumption pattern and increase the quality of life.

In the area of enhancing and promoting standards and accreditation, collaboration between the ministry and STANDARDS MALAYSIA is mainly focused on the aspect of consumer product safety and services and creating public awareness to consumers and industry players on the importance of safety standards.

Launch of MS ISO 50001: 2011 Energy Management System (EMS), December 8, 2011 in Shah Alam, Selangor

Amendments of Standards of Malaysia Act 1996 (Act 549)

PERFORMANCE HIGHLIGHTS

While making standards and accreditation more relevant in trade and industry was high in the agenda in 2011, being part of the Government's SRIs has further boosted the performance of STANDARDS MALAYSIA in 2011. The year also saw the organisation making advancements in other areas, as highlighted below.

Standards Making Greater Strides

Smart Partnership Programmes: STANDARDS MALAYSIA continued to cooperate with relevant stakeholders through smart partnership programmes at both national and international levels to advance standards development further. Our partners included other ministries, Government departments and agencies, industries and non-governmental organisations (NGOs) as well as international standards and accreditation bodies.

FTA Negotiations: STANDARDS MALAYSIA became the lead negotiator in FTAs for TBT chapter (Malaysia-Japan, Malaysia-Pakistan, Malaysia-New Zealand, Malaysia-Chile, Malaysia-India, Malaysia-Australia, Malaysia-Turki, Malaysia-EU, ASEAN-China, ASEAN-Korea, ASEAN-Japan, ASEAN-Australia and New Zealand, ASEAN-India, Trans-Pacific Strategic Economic Partnership Agreement and Gulf Cooperation Council).

Bilateral Cooperation with Republic of Uganda: A Memorandum of Understanding (MoU) was signed on October 27, 2011 between Malaysia and Republic of Uganda in the areas of standardisation. Through the MoU, the two countries aimed to enhance and increase trade through recognition of product and service standards.

Cooperation with Organization for Islamic Conference (OIC): STANDARDS MALAYSIA further pursued Malaysia's interest in the development of halal standards among OIC member countries during the Standing Committee for Economic and Commercial Cooperation of OIC (COMCEC) meeting held in Istanbul, Turkey from October 17 to 20, 2011.

Amendments of Standards of Malaysia Act 1996 (Act 549): The amendment bill was tabled and approved by the Dewan Negara in December 22, 2011. The new act will be gazetted and implemented in 2012.

Managing Malaysia Software Testing Hub (MSTH): Under the 10th Malaysia Plan (10MP), STANDARDS MALAYSIA has been appointed as the Project Manager and Chairman of the Technical Committee of MSTH, which reports to the Steering Committee at the Economic Planning Unit (EPU) level. The Technical Committee monitors, facilitates and implements activities of MSTH, which is a programme designed to create awareness and elevate the software testing industry in Malaysia and the region. MSTH functions as the centre for software testing excellence. During the year, two events were held, namely Software Testing Conference (SOFTEC) and Software Testing Straight Talk (STST) through which feedbacks were derived and compiled for future development programmes.

MS Development: As at the end of 2011, a total of 6,308 MS have been developed, of which 62.08% were aligned with international standards while 5.26% were made mandatory across various industrial sectors. In 2011, 319 MS were developed surpassing the target of developing 300 MS by 106.33%. *Jawatankuasa Penyelarasan Pelaksanaan Standard Mandatori* (JPPSM) held its first meeting in 2011 with the primary aim of facilitating the implementation of mandatory standards and technical regulations to ensure effective enforcement.

Benchmarking Standards: STANDARDS MALAYSIA successfully benchmarked standards based on requirements of importing countries, including developed nations.

Accreditation Advances to Higher Level

Launching of New Accreditation Programmes: Three new programmes under the Accreditation of Certification Bodies (ACB) Scheme were launched in 2011, namely Work Environmental Management System based on the 5S Kaizen System (the 5S principles focus on the environment of a workplace that should be conducive to workers), Oil Palm Supply Chain Management System and Forest Management System (Natural Forest). Three new accreditation programmes for Good Manufacturing Practices (GMP) for food, Medical Devices and Software Products were also being developed.

Peer Evaluation: The expertise of STANDARDS MALAYSIA's accreditation assessors continued to be recognised by Pacific Accreditation Cooperation (PAC), which in 2011, appointed Mr. Sia Lim Teck as a Trainee Peer Evaluator for China National Accreditation Service for Conformity Assessment (CNAS), Beijing. Peer evaluation facilitates international recognition of claims of conformity.

Maintaining Signatory Status: STANDARDS MALAYSIA continued to maintain Malaysia's signatory status in international agreements on testing, calibration and certification. Being signatories to various Mutual Recognition Arrangements (MRAs) and Multilateral Recognition Arrangements (MLAs) significantly facilitates regulators' functions to recognise testing reports and certifications of member countries as well as help FTA negotiations become more efficient by making national conformity assessment system to be equal with that of developed countries.

Facilitating International Trade: Through accreditation, STANDARDS MALAYSIA helps to facilitate trade between Malaysia and other economies, giving Malaysian exporters improved access to the international market. By being signatories to MRAs, Malaysia has greater access to overseas markets at lower cost by reducing technical barriers to trade.

Facilitating Stakeholders & Protecting Consumers through Accreditation: STANDARDS MALAYSIA ensures the credibility and competency of accredited conformity assessment bodies (CABs) to conduct testing, calibration, certification and inspection according to international standards and criteria. This supported the roles of regulatory agencies to protect consumers, the environment and societal wellbeing. STANDARDS MALAYSIA also continued to promote accreditation to serve as a strategic marketing tool for CABs to provide customer satisfaction, enhance their image, branding and competitiveness.

Mutual Joint Visit by OECD
STANDARDS MALAYSIA GLP CP was evaluated by the OECD Inspectors during the Mutual Joint Visit (MJV) on November 15-19, 2011 at STANDARDS MALAYSIA office in Cyberjaya. It was conducted in order for Malaysia to obtain recognition under the OECD Mutual Acceptance of Data. Three inspectors for the OECD, namely Dr. Andrew Grey (UK), Dr. Christoph Moor (Switzerland) and Dr. Hitoshi Someya (Japan) came to evaluate and observe STANDARDS MALAYSIA's inspectors conduct inspection at the Environment Technology Research Centre, SIRIM Berhad. This evaluation was also observed by the representative of OECD Secretariat, Ms. Wakako Horiki.

Revision of Accreditation Documents
On December 31, 2011, MOSTI Minister's approval was obtained for the revised SC 2, STR 1.2, STR 2.1 and STR 2.8 documents. SC is a specific criteria document that is established to elaborate on international standard e.g. SC 2 is developed to elaborate the requirement of MS ISO 15189 for medical testing laboratories. Specific Technical Requirement (STR) document spells out the specific requirement for the respective discipline or field of testing in Malaysia e.g. Toxicity Testing, Cytopathology and Cytogenetics Testing.

Attachment training for Bangladesh Accreditation Board (BAB) Officers
STANDARDS MALAYSIA has organised an attachment training for developing countries in the field of accreditation. This training programme was sponsored by United Nations Industrial Development Organization (UNIDO). Held in STANDARDS MALAYSIA, the two-week training was conducted for four Bangladesh Accreditation Board (BAB) officers who had the opportunity to observe STANDARDS MALAYSIA's operational accreditation activities which included briefing on accreditation system, conduct of assessment, internal audit, Technical Working Group (TWG) meeting and Laboratory Accreditation Evaluation Panel (LAEP) meeting.

BAB attachment training, July 18-29, 2011 in STANDARDS MALAYSIA

Minister of AQSIQ, China presenting a token of appreciation to Minister of Science, Technology and Innovation, October 22, 2011 in Nanning, China

Representation at International Level

STANDARDS MALAYSIA continued to hold positions in international boards/committees, namely as a member of the ISO Council for the term 2010-2011 and also as a member of the ISO Technical Management Board (TMB) for the term 2010-2012. TMB, which reports to the ISO Council is responsible for the overall management of technical work, including monitoring the development of ISO standards at the technical committee level. Another highlight is the participation of STANDARDS MALAYSIA at the Chairs Group Meeting of ISO COPOLCO and the co-convenor of the ISO COPOLCO Working Group (WG) on Product Safety.

STANDARDS MALAYSIA replaced SIRIM Berhad to represent Malaysia in IECEE which is the Worldwide System for Conformity Testing and Certification of Electro-technical Equipment and Components. It also introduced the international Scheme for Certification Bodies (CB Scheme) based on the principle of mutual recognition by its members of test results for obtaining certification or approval at national level.

STANDARDS MALAYSIA also maintained participation in ISO and IEC Technical Committees (TCs) as both Participating (P) member and Observer (O) member. These memberships allow us to remain active internationally and at the same time advance and protect the nation's interest in the standards development work.

In addition, STANDARDS MALAYSIA continued to represent Malaysia by maintaining memberships in ISO and IEC as well as continuing to be signatories to APLAC/ILAC MRA & PAC/IAF MLA.

37th ACCSQ Meeting, August 8-12, 2011 in Da Nang, Vietnam

17th ISO/TC 212 Plenary Meeting, October 17-19, 2011 in Las Vegas, Nevada, United States

Standing Committee for Economic and Commercial Cooperation of OIC (COMCEC) Meeting, October 17-20, 2011 in Istanbul, Turkey

APEC Sub-Committee on Standards and Conformance Meeting, September 20-21, 2011 in San Francisco, United States

ISO General Assembly Meeting, September 21-23, 2011 in New Delhi, India

International Standards Bodies

International Organization for Standardization (ISO) is the world's largest International Standards Body with a network of the national standards institutes from 163 countries. ISO's Central Secretariat located in Geneva, Switzerland, coordinates the activities of the organisation. MALAYSIA through STANDARDS MALAYSIA is an active member of ISO with participation in many international standardisation activities.

International Electro-technical Commission (IEC) is the world's leading organisation for the preparation and publication of international standards for all electrical, electronic and related technologies, which are known collectively as electro-technology. Malaysia's participation in IEC is spearheaded by STANDARDS MALAYSIA.

Regional & International Accreditation Cooperation

Asia Pacific Laboratory Accreditation Cooperation (APLAC) is a cooperation of accreditation bodies in the Asia Pacific region that accredit laboratories, inspection bodies and reference material producers. Malaysia, through STANDARDS MALAYSIA has been accepted into the APLAC MRA in the fields of testing and calibration as well as in medical testing.

International Laboratory Accreditation Cooperation (ILAC) is an international cooperation of laboratory and inspection accreditation bodies. Malaysia, also through STANDARDS MALAYSIA has been accepted into ILAC MRA in the fields of testing and calibration.

Pacific Accreditation Cooperation (PAC) is an association of accreditation bodies and other interested parties whose objective is to facilitate trade and commerce among economies in the Asia Pacific region. STANDARDS MALAYSIA plays crucial role in maintaining Malaysia as the PAC Multilateral Recognition Arrangement (MLA) signatories for three programmes, namely Quality Management Systems (QMS), Environmental Management Systems (EMS) and Product Certification (PC) programme. CBs accredited by PAC MLA signatories are recognised as equivalent and users of the services can be assured of comparable accreditation methods used by all PAC members.

International Accreditation Forum (IAF) is the world association for Conformity Assessment Accreditation Bodies and other bodies interested in conformity assessment in the fields of management systems, products, services, personnel and other similar programmes of conformity assessment. STANDARDS MALAYSIA is also responsible for Malaysia's acceptance into the IAF MLA for QMS, EMS and PC programmes.

In meeting requirements for accreditation services, STANDARDS MALAYSIA continued to ensure that the existing accreditations comply with relevant requirements under the following schemes.

Laboratory Accreditation Scheme of Malaysia or *Skim Akreditasi Makmal Malaysia* (SAMM): Laboratories in Malaysia are deemed competent once they are accredited by STANDARDS MALAYSIA through SAMM that conforms to the relevant international standards and criteria.

Accreditation of Certification Bodies (ACB) Scheme: STANDARDS MALAYSIA uses this scheme to assess and accredit CBs in compliance with relevant international standards and criteria as competent when providing their certification activities.

Malaysia Inspection Bodies Accreditation Scheme (MIBAS): through this scheme, inspection bodies accredited by STANDARDS MALAYSIA proved that inspection activities carried out conform to international standards and criteria.

18th PAC Plenary Meeting, June 13-17, 2011 in Manila, Phillipina

Forum with Certification Bodies, June 8, 2011 in Hotel Singgahsana Petaling Jaya, Selangor

Human Capital Development

Efforts to enhance the skills, knowledge and capability of our staff continued in 2011 with many of our staff members taking part in numerous training programmes, meetings, seminars and other events relevant to standardisation and accreditation activities both locally and internationally.

Organisational Management Performance

In 2011, there was marked improvement to fill positions for the managerial and professional group whereby we successfully filled 82% of the positions available. This group is one of three staff categories, while the other two are top management category and support group. Positions at the top management level were filled 100% as in the previous year. As for the support group, 91% of the positions were filled.

In financial management, the operational expenditure for 2011 amounted to RM 15,642,727.04 or 94.37% of the revised allocation of RM 16,576,134.41. The expenditure was incurred for emolument, services, assets and grants. As for development expenditure, RM 25,694,781.14 or 99.98% of the total allocation of RM 25,700,000.00 was incurred for development of standards and Malaysian Software Testing Hub.

Total revenue collected in 2011 amounted to RM 3,684,708.40 from fees for accreditation scheme, processing fees, sales of documents and miscellaneous items.

MOVING TO THE NEXT LEVEL

Addressing Issues and Challenges

As we march towards the future, we will continue to focus on implementing all strategies as spelt out in STANDARDS MALAYSIA's Strategic Plan 2011-2015. We will mobilise everyone in the organisation to realise STANDARDS MALAYSIA's vision and mission as well as carry out our development and promotional activities.

We have already started to assume bigger roles since both standards and accreditation have been included as a policy measure under ETP. We have been more involved in facilitating trade requirements for FTA negotiations, which will further boost our initiative to become a major player in standardisation and accreditation at both the national and international levels.

Among some of the other initiatives to be taken are:

Closing Quality Gap
While it is generally known that some exported products are of higher quality to meet the requirements of the importing countries, efforts must be taken to address the issue of lower quality products being sold in the local market. It will take a long time to close this gap, however, there is a greater and urgent need to impress upon the people to demand from industry players to deliver products for local consumption to be of as high quality as exported ones. We are working with consumer associations to create greater awareness among consumers and have been giving the associations some allocations to embark on awareness programmes.

Creating Balance
Awareness among regulators and enforcers has increased tremendously over the last five years. We thus need to create a balance between enforcement and social needs of the people, for instance, the timing for enforcement is also important. Though at technical level, we see the need to begin enforcement but there are also social implications to consider, such as cultural differences. International practices are introduced by developed countries based on their own unique situations and culture so when we look at such practices, we must adapt and adopt them to suit our own local requirements. Here is where the development of MS becomes highly relevant. Once every aspect has been addressed, then the Government will decide on the timing for full enforcement, following which continuous application must be sustained.

Awareness and Education
Standards development has progressed well but enforcement sometimes is still the issue. However, the people cannot just depend on the Government agencies to enforce. Realisation for safety and quality must come from within. The people must be conscious enough to do everything for their own safety. This is a slow education process. Herein lies the challenge. Greater efforts must be taken to create more consumer associations. Perhaps the creation can be made according to every industrial sector. We must also be represented in more international forums to learn more of development elsewhere so the knowledge gained can be applied in our own country. There is also a need for standards to be included in the education process, which is still at a very infant stage in our country. However, at the Asia Pacific Economic Cooperation (APEC) level, the inclusion of standards in the education process is one of APEC's major projects. Malaysia must follow suit and be more aggressive in educating and creating greater awareness of the benefits of standards especially among the young generation.

Workshop on Development of Education about Standardisation for Developing Countries, December 6-8, 2011 in KLCC, Kuala Lumpur

Langkawi International Dialogue (LID), June 18-21, 2011 in PICC, Putrajaya

Seminar on MS 2400 Series: Halal Logistics and Supply Chain, June 16, 2011 in Renaissance Hotel, Kuala Lumpur

ISO Regional Workshop - Financial Sustainability for National Standards Bodies, November 22-24, 2011 in Kuala Lumpur

Capitalising on Strengths

Over the years, we have been capitalising on our strengths to develop standards and provide the foundation for conformity assessment, of which accreditation is part of. Now that the standards and accreditation process and infrastructure have been put in place, our next efforts will be to focus on increasing awareness on the benefits of standards and accreditations and how they could further impact the nation's economic development. These impacts are far reaching, from social to economic to safety and security. Advancement in both fields includes strategies to forge more alliances with many parties both within and outside the country. International participation in many activities related to standards and accreditation as well as external collaborations particularly with international standards and accreditation bodies will not only bring Malaysia's standards and accreditation practices on par with some developing and developed nations but also help facilitate international trade and improve the country's competitive advantage. These alliances also help us sharpen our knowledge and skills, as well as keep us updated on new developments the world over.

Engaging Industries

As we aim to reach a higher level in our performance, it is no longer all about delivering numbers. We are changing the way we do things. We are looking beyond the technical aspects of standards development whereby we must truly be industry driven. We will be more careful about fulfilling requests to develop standards without first having potential users. These users will be urged to come forward and impress upon us why they need standards to be developed for their industrial sectors. We will proactively meet with industry players to develop standards which will be eventually and widely used. The bottom line is to have more adoption of standards and to make many of these mandatory. The average time taken from adoption to making standards mandatory is about six months, including the stage of getting public comments. But the whole process can be fast-tracked with closer and faster collaboration with the industry players and other stakeholders, including bodies that represent the interests of consumers. We want to have a lot of standards to be developed with and by the industries themselves, not by the Government bodies solely. We have even amended the Standards Malaysia Act to enable the appointment of standards developer who can come directly to STANDARDS MALAYSIA. This is part of measures to expedite and facilitate standards development initiative by industries themselves.

We are fortunate to have strategic-minded people especially at the top level who understand and support the policies and strategies to achieve better performance. However, STANDARDS MALAYSIA's staff members at all levels have also played their part to help make the organisation effective in carrying out our functions and responsibilities. Together, we can surmount challenges, as how we have proven in the past. On behalf of the management of STANDARDS MALAYSIA, I would like to express my appreciation to everyone for delivering a commendable performance in the past year. THANK YOU.

Seminar on the Results of Studies by UNIDO on the Impact of ISO 9001 Certification among Developing Countries in Asian Region, February 24-25, 2011 in Putrajaya

SEPINTAS LALU:
PROMOSI DAN AKTIVITI-AKTIVITI LAIN

Terdapat pelbagai aktiviti yang dijalankan sepanjang tahun 2011, yang terdiri daripada penyertaan, penganjuran dan menjadi tuan rumah dalam pelbagai mesyuarat, seminar, bengkel dan pameran. Berikut adalah sebahagian daripada aktiviti-aktiviti penting bagi tahun ini.

Activities carried out in 2011 were varied, ranging from participation in meetings, seminars, workshops and conferences to organising and hosting events. These are some of the highlights for the year.

International & Regional Meetings

February 28-March 6, Washington, USA: The 1st APEC Senior Officers Meeting (SOM 1) and Related Meetings.

April 5-7, Paris, France: 25th Meeting of Working Group on Good Laboratory Practice (GLP).

April 13-15, Montreux, Switzerland: International Laboratory Accreditation Cooperation (ILAC) Accreditation Issues Committee and ILAC Proficiency Testing Consultative Group Meeting.

April 25-26, Bangkok, Thailand: 4th Malaysia-Thailand-Vietnam (MTV) Meeting on accreditation activities.

May 4-6, Manila, Philippines: 21st Meeting of ASEAN Consultative Committee for Standards and Quality (ACCSQ), Working Group on Accreditation and Conformity Assessment (WG2).

May 11-12, Auckland, New Zealand: 27th Asia Pacific Laboratory Accreditation Cooperation (APLAC) MRA Council Meeting.

June 13-17, Manila, Philippines: PAC Plenary Meeting.

July 27-29, Nay Pyi Taw, Myanmar: ACCSQ Working Group Meeting on Standards and MRA (Working Group 1).

AT A GLANCE:
PROMOTIONAL AND OTHER ACTIVITIES

August 8-12, Da Nang, Vietnam: 37th ACCSQ Meeting.

September 5-9, Split, Crotia: IECEx System Meeting.

September 10-16, Manila, Philippines: 17th APLAC General Assembly and Technical Meetings.

September 12-13, Singapore: APEC/ASEAN Workshop on Green Building & Green Growth – Approaches to Encouraging a Positive Building Climate.

September 14, Singapore: Special Meeting for ACCSQ Task Force on Building and Construction.

September 19-23, New Delhi, India: 34th ISO General Assembly.

September 20-21, San Francisco, USA: Asia Pacific Economic Co-operation Sub-Committee on Standards Conformance (APEC SCSC) – SCSC2 Plenary Meeting.

September 25-30, Hotel Istana, Kuala Lumpur: 60th Meeting of ISO/TC61 – Plastics.

October 8-11, Istanbul: COMCEC Meeting.

October 17-19, Las Vegas, USA: 17th ISO/TC 212 (related to ISO 15189) Plenary Meeting.

October 22, Nanning, China: 1st China-ASEAN Ministerial Meeting on TBT Cooperation.

October 24-28, Melbourne, Australia: 75th IEC General Assembly.

October 25-27, Singapore: ACCSQ WG2 22nd Meeting.

November 10-11, Geneva, Switzerland: World Trade Organization/Technical Barrier To Trade (WTO/TBT) Meeting.

Launching of MS 2424:2012(P) by Minister of Domestic Trade, Cooperative and Consumerism during MIHAS 2011, April 6-9, 2011 in KLCC, Kuala Lumpur

Visit to Emirates Authority for Standardization & Metrology (ESMA), December 5, 2011 in Dubai, U.A.E.

Exhibitions / Road shows

April 4-5, Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur: Participated in World Halal Forum 2011.

April 6-9, Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur: Participated in Malaysia International Halal Showcase (MIHAS) 2011.

April 20, Dewan Besar Pusat Islam Iskandar, Johor Bahru, Johor: Participated in Johor State Halal Seminar.

June 7-9, KLCC, Kuala Lumpur: Participated in SMIDEX 2011 Exhibition.

June 18-21, PICC, Putrajaya: Participated in Langkawi International Dialogue (LID) 2011.

July 6-8, Prince Hotel and Residence, Kuala Lumpur: Participated in SOFTEC 2011 Exhibition.

July 23-24, Manjung, Perak: Exhibition during National Consumer Month 2011.

July 26-29, KLCC, Kuala Lumpur: MySTI-Expo 2011 Programme (Malaysia Science Technology and Innovation Expo 2011) organised by MOSTI.

September 15-18, Waterfront Kuching, Sarawak: Participated in Sarawak Regatta.

September 27-29, Petaling Jaya, Selangor: Participated in International Common Criteria Conference (ICCC).

October 12-16, PWTC, Kuala Lumpur: Participated in Halal Fiesta Malaysia (HALFest 2011).

October 21-23, PWTC, Kuala Lumpur: Participated in Kuala Lumpur International Islamic Festival (KLIIF) 2011.

November 23, Kota Kinabalu, Sabah: Sabah State Halal Programme.

December 6-8, Dubai, U.A.E.: Participated in 4th Halal Expo 2011.

Training / Seminars

February 21, Cyberjaya, Selangor: Awareness Seminar on Accreditation in conjunction with study visit by Standards Certification Quality Assurance (SCQA) Bhutan.

February 24-25, Putrajaya: Seminar on the Results of Studies by UNIDO on the Impact of ISO 9001 Certification among Developing Countries in Asian Region.

February 28-March 2, Bangladesh: Training on Accreditation System for Bangladesh Laboratary Accreditation Board (BAB) officers.

March 2, Shah Alam: Public Consultation Forum on Malaysian Standards for Halal Pharmaceutical.

May 18-19, Bandar Baru Salak Tinggi, Selangor: Participated in Seminar on Good Laboratory Practice for Study Personnel and Archivist.

May 23-24, Cyberjaya, Selangor: MS ISO 14001: 2004 – Environmental Management Systems – Requirements with guidance for use.

May 26, PICC: Awareness Seminar on IECEx Scheme.

June 6-10, Thessaloniki, Greece: On-site evaluation of the GLP compliance and inspection process by Greece Compliance Monitoring Authority (CMA).

June 8, Petaling Jaya, Selangor: Forum with Certification Bodies (CB) in conjunction with World Accreditation Day 2011.

June 9, Putrajaya: Forum with SAMM Laboratories in conjunction with World Accreditation Day 2011.

June 10, Kuala Lumpur: Awareness Seminar on MIBAS for Metrology Corporation Malaysia (MCM).

June 13-17, Manila, Philippines: ISO/IEC 17021: 2011 – Conformity Assessment – Requirements for bodies providing audit and certification of management systems.

June 14-15, Universiti Sains Malaysia (USM), Penang: Workshop on GLP Computerised System.

Training / Seminars

June 16, Renaissance Hotel, Kuala Lumpur: Participated in Seminar on MS 2400 Series: Halal Logistics and Supply Chain.

June 22-23, Cyberjaya: Standard ISO/TS 22003 – Food Safety Management Systems – Requirements for bodies providing audit and certification of food safety management systems.

July 1-3, Kuala Lumpur: Seminar on Recreational Scuba Diving Standards.

July 6-8, Kuala Lumpur: Association for Private Hospitals of Malaysia. APHM International Healthcare Conference & Exhibition 2011.

July 6-8, Prince Hotel and Residence, Kuala Lumpur: Software Testing Conference (SOFTEC 2011).

July 13, Shah Alam, Selangor: Certificate Presentation by STANDARDS MALAYSIA & Seminar on Information Security Management System (MS ISO/IEC 27001).

July 12-14, International Islamic University Malaysia (IIUM): IIUM Access Audit Workshop 2011.

July 12, 26 & 28, Seri Kembangan, Selangor: Seminar on MS ISO/IEC 27001: 2007 Information Security Management System – ISMS.

July 13-15, Nilai, Negeri Sembilan: Lead Assessor Training for Non-Destructive Testing (NDT) under MIBAS.

July 14, Shah Alam, Selangor: MS ISO/IEC 17025 Assessor Forum.

July 14, Marriott Hotel, Putrajaya: Seminar on Malaysian Standards Application in Built Environment – Towards Mandatory Requirement in Construction Industry.

July 18-29, Cyberjaya, Selangor: Bangladesh Accreditation Board (BAB) attachment training for developing countries in the field of accreditation at STANDARDS MALAYSIA.

July 20-27, Nilai, Negeri Sembilan: Malaysian Technical Cooperation Programme (MTCP) on Halal Standards and Conformance Infrastructure for OIC Countries.

July 21, Makmal Kerja Raya Malaysia, Kuala Lumpur: Held Awareness Seminar on SAMM/MIBAS.

July 26-27, Cititel, Kuala Lumpur: Seminar on Food Safety 2011.

July 28, Cyberjaya, Selangor: MIBAS Inspection Bodies Forum.

July 29, Sungai Buloh, Selangor: Workshop Round Robin Standard Malaysian Rubber (SMR).

August 1-4, Bangkok, Thailand: APLAC-PTB Enhanced Training Course for PT Experts.

August 3, Shah Alam, Selangor: National Consultation on Biomimetics.

August 18-19, Putrajaya: WTO/TBT Advanced Course.

September 7-8, Cyberjaya, Selangor: ISO/IEC 17021: 2011 – Conformity Assessment – Requirements for bodies providing audit and certification of management systems.

September 12-13, Bangi, Selangor: Briefing on Understanding MS ISO/IEC 17025.

September 13, Shah Alam, Selangor: Seminar on the Implementation of Malaysian Standards on Road Vehicles.

Certificate Presentation by STANDARDS MALAYSIA & Seminar on Information Security Management System (MS ISO/IEC 27001), July 13, 2011 in Sham Alam, Selangor

APLAC-PTB Enhanced Training Course for PT Experts, August 1-4, 2011 in Bangkok, Thailand

Mutual Joint Visit by OECD Inspector, November 15-19, 2011 in STANDARDS MALAYSIA

Training / Seminars

September 14-15, Cyberjaya, Selangor: Oil Palm Supply Chain Management Systems – Guidelines for COP certification and ACB technical documents.

September 17, San Francisco, USA: APEC Seminar on Infrastructure Investment.

September 20-22, Shah Alam, Selangor: Training on ISO Guide 34 for Reference Material Producer (RMP) and ISO/IEC 17043 for Proficiency Testing Provider (PTP).

September 21, Malaysian Productivity Corporation (MPC), Petaling Jaya, Selangor: Awareness Seminar on Standard and Accreditation (MIBAS).

September 26-30, Japan: Training Course for Reference Material Producers (RMPs) and Calibration Laboratories Accreditation Assessors.

October 3-6, Istanbul, Turkey: 7th Workshop Proficiency Testing in Analytical Chemistry, Microbiology and Laboratory Medicine - Current Practice and Future Directions.

October 4, Putrajaya: SAMM Assessors Forum in Medical Testing.

October 5-6, Kuala Lumpur: Symposium on Quality Management 2011.

October 10-21, Hong Kong, China: Technical Training for Laboratory and Inspection Bodies Accreditation at Hong Kong Accreditation Service (HKAS).

October 11, Shah Alam, Selangor: Seminar on MS for Edible Bird-nest Industry.

October 11-12, Johor Bahru, Johor: 5th Biennial Institut Kimia Malaysia (IKM) Regional Symposium on Total Laboratory Management – Quality, Safety, Environment and Laboratory Informatics (QSEL 2011).

October 12, Cyberjaya, Selangor: Training course on Work Environmental Management Systems certification (5S).

October 13, PICC, Putrajaya: The National Standards and Accreditation Awards Ceremony 2011.

October 17, Chongqing, China: China Reference Material and Accreditation International Forum.

October 20, Shah Alam, Selangor: Seminar on Revised MS 930:2010 for the Gas Industry.

November 2, Perlis: Seminar on Standard and Consumerism.

November 14-15, Putrajaya: Technical Assessor Training for Non Destructive Testing (NDT) under MIBAS.

November 15, Shah Alam, Selangor: Seminar on Ergonomics is Economics.

November 22-23, International Islamic University Malaysia (IIUM), Selangor: International Conference on Universal Design in Built Environment (ICUDBE2011).

November 22-24, Kuala Lumpur: ISO Regional Workshop - Financial Sustainability for National Standards Bodies.

December 6-8, KLCC, Kuala Lumpur: Workshop on Development of Education about Standardisation for Developing Countries.

December 8, Shah Alam Convention Centre, Shah Alam, Selangor: Seminar on MS ISO 50001:2011 - Energy Management Systems.

December 13, Cyberjaya, Selangor: ACB Assessors Forum.

December 14, PICC, Putrajaya: ISC Chairman Forum.

December 14, Petaling Jaya, Selangor: Seminar on Adopting Eurocode for Structural Steel Design.

December 15, Cyberjaya, Selangor: MIBAS Technical Assessor Workshop.

December 19-20, Petaling Jaya, Selangor: Seminar on Conformity Assessment.

December, 22-23, Cyberjaya, Selangor: SAMM Trainee Technical Assessor Course.

Briefings

January 7, Department of Chemistry, Johor: Briefing for SAMM Technical Assessors.

January 25, Cyberjaya, Selangor: Briefing for the Fisheries Department, Department of Agriculture on Accreditation Process & Procedure.

February 9, Cyberjaya, Selangor: Briefing for UNiKL on Accreditation Process & Procedure.

February 18, UiTM, Sg. Buloh, Selangor: Briefing on Accreditation Process & Procedure.

March 1, Shah Alam, Selangor: Briefing for MIBAS Technical Assessors.

March 9, Universiti Malaysia Terengganu (UMT), Kuala Terengganu, Terengganu: Briefing on Accreditation Process & Procedure.

May 17, Universiti Kuala Lumpur (UniKL), Malaysia Institute of Industrial Technology (MITEC), Johor: Briefing on Laboratory Accreditation.

May 31-June 1, Sg. Buloh, Selangor: Briefing on Understanding MS ISO 15189, for Makmal Kesihatan Awam (MKA).

June 30, Fakulti Sains & Teknologi, Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor: Briefing on General Accreditation Process & Procedure.

September 15, Seri Kembangan, Selangor: Briefing on Role of STANDARDS MALAYSIA in Conformity Assessment in Malaysia.

September 19, USM, Penang: Briefing on Accreditation Process and MS ISO/IEC 17025.

October 5-6, Institutes for Pharmaceutical & Nutraceutical Malaysia (IPHARM), Penang: Briefing on GLP Compliance Programme & GLP Principles.

November 10, University Tun Hussein Onn, Batu Pahat, Johor: Briefing on Laboratory Accreditation.

November 24, Langkawi, Kedah: Briefing on Accreditation Services provided by STANDARDS MALAYSIA.

17th APLAC General Assembly and Technical Meetings, September 10-16, 2011 in Manila, Philippines

4th Halal Expo 2011, December 6-8, 2011 in Dubai, U.A.E. - 1st international exhibition

Seminar on Malaysian Standards for Edible Birdnest Industry, October 11, 2011 in Shah Alam, Selangor

SAMM Laboratories Forum, June 9, 2011 in Putrajaya

Malaysian Technical Cooperation Programme (MTCP) on Halal Standards and Conformance Insfrastructure for OIC countries, July 20-27, 2011 in Nilai, Negeri Sembilan

China Reference Material and Accreditation International Forum, October 17, 2011 in Chongqing, China

Delegates from the Republic of Uzbekistan with staff of
STANDARDS MALAYSIA, March 30, 2011

Lead Assessor Training for Non-Destructive Testing (NDT) under
MIBAS, July 13-15 in Nilai, Negeri Sembilan

STANDARDS MALAYSIA involvement in Economic Transformation
Program (ETP)

Kuala Lumpur International Islamic Festival (KLIIF),
October 12-16, 2011 in Putra World Trade Centre (PWTC)

Audit Akses Dalam Persekitaran Alam Bina, October 4-6, 2011
in Seremban, Negeri Sembilan

Senior Director (Policy and Standards) of STANDARDS MALAYSIA receiving
a token of appreciation from YM Raja Dato' Seri Azureen Sultan Azlan Shah,
during *Program Hari Pengguna Malaysia* July 30, 2011, Ipoh, Perak

Appreciation Award for Users of Malaysian Standards,
October 13, 2011 in PICC, Putrajaya

Public Consultation Forum on Malaysian Standards for Halal
Pharmaceutical, March 2, Shah Alam, Selangor

Visit from Kazakhstan Delegates, May 19, 2011 in
STANDARDS MALAYSIA

Smart Partnership Programme with Standards Users,
July 30, 2011 in Ipoh, Perak

Workshop on Development of Education about Standardisation
for Developing Countries, December 6-8, 2011 in KLCC,
Kuala Lumpur

Smart Partnership Programme on People With Disabilities (PWD)
with International Islamic University of Malaysia (IIUM)

YB. Datuk Haji Fadillah Haji Yusof (seated) becomes a registered
member of the Q-Portal, July 6-8, 2011 in Kuala Lumpur

STANDARDS MALAYSIA's staff with Minister of Science, Technology
& Innovation, August 8, 2011 in STANDARDS MALAYSIA

Technical Training for Laboratory and Inspection Bodies
Accreditation at Hong Kong Accreditation Service (HKAS),
October 10-21, 2011 in Hong Kong, China

Awareness Seminar on IECEx Scheme May 26, 2011 in PICC,
Putrajaya

15 Years' Milestones of
STANDARDS MALAYSIA

15 years
1996-2011
Advancing Standards and Accreditation

The Early Years

1996 – 1999

April 23, 1996
Parliament of Malaysia passed the Standards of Malaysia Act 1996 (Act 549).

August 28, 1996
Establishment of STANDARDS MALAYSIA through the Standards of Malaysia Act (Act 549).

September 1, 1996
STANDARDS MALAYSIA officially started its operations from the 21st Floor, Wisma MBSA, Shah Alam, Selangor.

December 2, 1996
STANDARDS MALAYSIA accredited its first certification bodies (CB) for Quality Management System (QMS). The accreditation was given to SIRIM Berhad and later transferred to SIRIM QAS Sdn Bhd (Now SIRIM QAS International Sdn Bhd).

June 4, 1997
Agreement with SIRIM Berhad was signed for the development, publication, sale and distribution of MS.

October 13-17, 1997
For the first time since its establishment, STANDARDS MALAYSIA hosted an international meeting – ISO/Technical Committee 45 (ISO/TC 45) for Rubber and Rubber Products.

November 5, 1998
STANDARDS MALAYSIA became a signatory to PAC-MLA for QMS.

September 29, 1999
STANDARDS MALAYSIA became a signatory to IAF-MLA for QMS.

The Journey Begins

2000 – 2003

September 3, 2001
STANDARDS MALAYSIA moved its operations from Shah Alam to the Federal Government Administrative Centre in Putrajaya.

July 5, 2002
STANDARDS MALAYSIA accredited its first CB for Environmental Management System (EMS). The accreditation was given to Moody International Certification (M) Sdn Bhd.

July 24, 2002
The Cabinet approved the measures to improve national standardisation initiatives.

November 14, 2002
STANDARDS MALAYSIA became a signatory to APLAC-MRA for the testing scope.

January 16, 2003
STANDARDS MALAYSIA became a signatory to ILAC-MRA for testing.

July 16, 2003
Launching of the accreditation programme for Product Certification Bodies (PCBs).

November 13, 2003
STANDARDS MALAYSIA became a signatory to APLAC MRA for calibration.

November 19, 2003
STANDARDS MALAYSIA became a signatory to ILAC-MRA for calibration.

CHANGING OF THE GUARDS

Period	Director General of STANDARDS MALAYSIA
1996 – 1999	Y.Bhg. Dato' A. Aziz Mat
March 2000 – September 2000	Tuan Hj. Ir. Mah Lok Abdullah
October 2000 – September 2006	Y.Bhg. Dato' Mariani Mohammad
October 2006 – Current	**Puan Fadilah Baharin**

Moving Forward

2004 – 2006

August 16, 2004
Launching of the MS 1500: 2004 – Halal Food – Production, Preparation, Handling and Storage – General Guidelines by the Prime Minister of Malaysia in Kuala Lumpur.

August 16-17, 2004
IEC President, Dr. S. Takayanagi visited Malaysia.

October 5, 2004
STANDARDS MALAYSIA accredited its first CB for PCB programme. The accreditation was given to SIRIM QAS International Sdn Bhd.

October 13, 2004
The Government approved the NSSAP.

October 27, 2004
The Government re-affirmed the status of STANDARDS MALAYSIA as the national accreditation body for all conformity assessment activities.

December 14, 2004
Launching of the Laboratory Accreditation Scheme of Malaysia for Medical Testing.

March 1, 2005
Agreement signed with Muslim Consumers Association of Malaysia (PPIM) for the promotion of Halal Standards.

June 30, 2005
Launching of the Laboratory Accreditation Scheme for Veterinary Testing.

August 1, 2005
STANDARDS MALAYSIA started its new accreditation programme for occupational safety and health management systems (OSH MS).

September 26, 2005
Forum held in conjunction with the visit to Malaysia by ISO President, Prof. Masami Tanaka.

October 11, 2005
STANDARDS MALAYSIA issued its first accreditation certificate on Medical Testing to Sunway Medical Centre.

December 6, 2005
STANDARDS MALAYSIA accredited its first CB for OSH MS. The accreditation was given to SIRIM QAS International Sdn Bhd.

December 20, 2005
STANDARDS MALAYSIA started its new accreditation programme for Hazard Analysis and Critical Control Point (HACCP) based food safety systems and Information Security Management Systems (ISMS).

December 31, 2005
STANDARDS MALAYSIA became a signatory to PAC MLA for EMS.

February 9, 2006
STANDARDS MALAYSIA became a signatory to IAF MLA for EMS.

May 25, 2006
STANDARDS MALAYSIA hosted the 28th ISO COPOLCO (Consumer Policy Committee) Meeting.

May 26, 2006
STANDARDS MALAYSIA organised a Luncheon Talk with Chief Operating Officers in conjunction with the visit to Malaysia by ISO Secretary General, Mr. Alan Bryden.

November 20, 2006
Re-branding of DSM to be known as STANDARDS MALAYSIA and unveiling of a new logo in conjunction with STANDARDS MALAYSIA's 10th Anniversary celebration. MIBAS was also launched during the celebration.

June 21-22, 2007 Hosted the meeting of the ISO/TC 45/SC 4 on Rubber and Rubber Products (Other than hoses) - Elastomeric Isolators.

April 1, 2008 Being one of the Government agencies under the Ministry of Science, Technology and Innovation (MOSTI), STANDARDS MALAYSIA welcomes the new MOSTI Minister, Y.B. Datuk Seri Panglima Dr. Maximus Johnity Ongkili. The Department gets its support and approval for all Malaysian Standards and accreditation policy documents developed from the Minister of MOSTI.

STANDARDS MALAYSIA also continues to hold the Secretariat position in four ISO TCs, namely for Rubber and Rubber Products (ISO TC 45), Rubber and Plastic Hoses (ISO TC 45/SC 1), Rubber Products, other than Hoses (ISO TC 45) and Mechanical Contraceptives (ISO TC 157).

January 11-12, 2007 Hosted the meeting of the ISO/TC 69 / WG 3 on Statistical Interpretation of Data.

November 29– December 9, 2007 Hosted the meeting of the IEC/TC 31 on Equipment for Explosive Atmosphere in Kuala Lumpur.

STANDARDS MALAYSIA holds convenorship in ISO TC 45/SC 3/WG 4 on Natural Rubber, ISO TC 45/SC 4/WG 5 on Synthetic Rubber, ISO TC 61/SC2/WG 2 on Hardness and Surface Properties, ISO TC 69/AHG on Applications of Statistical Methods and ISO TC 207/SC 7 – Green house gas management and related activities.

June 8-15, 2008 Hosted the ISO/TC 96 on Cranes Meeting in Kuala Lumpur.

January 19-23, 2009 Hosted the meeting of ISO/TC 207 - Chairman's advisory group (CAG), ISO/TC 207/SC 7/WG 2 - GHG management in the value or supply chain, ISO/TC 207/SC 3 - Environmental labelling, ISO/TC 207/SC 5/WG 7 - ISO 14045 on Eco-efficiency assessment, ISO/TC 207/SC 4 – Environmental Performance Evaluation in Sabah.

April 6-7, 2009 Hosted the meeting of the ISO/TC 30/SC 5/WG 1 – Ultrasonic Flow Measurement for Gas in Kuala Lumpur.

June 18, 2009 Malaysia through STANDARDS MALAYSIA was accepted as a signatory to the Pacific Accreditation Cooperation Multilateral Recognition Arrangement (PAC MLA) for product certification in Taipei, Taiwan.

Mr. Shaharul Sadri Alwi, Director of Accreditation was appointed Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC MRA) Lead Evaluator.

March 17, 2007 The Laboratory Accreditation Scheme of Malaysia (SAMM) for Forensic Science Testing was launched.

The Government approved the National Measurement System Act 2007.

November 19-23, 2007 Hosted the meeting of the IEC/TC 61 on Household Appliances in Penang.

December 2-7, 2007 Hosted the meeting of the 13th APLAC General Assembly and Technical. It marked the first time ever Malaysia hosted this prestigious event.

STANDARDS MALAYSIA maintains its seat in the ISO Council for 2007-2008, which is the highest international policy-making body for standardisation.

STANDARDS MALAYSIA continue to be the member of the Pacific Accreditation Cooperation (PAC) Executive Committee since its election in June 2006, for a 3-year term.

July 21-25, 2008 Hosted the ISO/TC 218 on Timber Meeting in Kuala Lumpur.

February 9-13, 2009 Hosted the meeting of the ISO/TC 241 – Road Safety Management System in Selangor.

May 4-5, 2009 Hosted the meeting of the ISO/TC 240 – Product Recall in Kuala Lumpur.

November 4, 2009 CEO Round Table Discussion with Mr. Donald K. Gray, Vice President, International Electrotechnical Commission (IEC) in Kuala Lumpur.

June 21-28, 2008 Hosted the Pacific Accreditation Cooperation (PAC) Plenary Meeting in Kuala Lumpur.

February 10, 2009 The visit of ISO President, Dr. Alan Morrison to STANDARDS MALAYSIA.

June 13-19, 2009 Hosted the ISO/TC 69 - Statistical Techniques Meeting in Kuala Lumpur.

July 9, 2009 Launching of the Good Laboratory Practice (GLP) Compliance Programme.

October 19, 2009 STANDARDS MALAYSIA was accepted as a signatory to International Accreditation Forum Multilateral Recognition Arrangement (IAF MLA) for product certification in Vancouver, Canada.

Mr. Rafaiq Bakri Zakaria, Director of Strategic Management was appointed as Chairman of Sub Committee in the OIC Standardization Experts Group (SEG) On "Development Of The OIC Halal Food Standard And The Procedures."

2007 Driving Innovation Through Human Capital Development

2008 Strategising..... to Reach New Heights

2009 Global Recognition

Innovative Partnerships

Taking Standards to the Next Level

2010

2011

January 27, 2010 MoU with The Joint Accreditation System of Australia and New Zealand (JAS-ANZ).

April 12-20, 2010 Hosted the meeting of ISO/JTC1/SC37 – Biometrics.

Dec 6-10, 2010 Hosted the meeting of the ISO/TC 229 – Nanotechnologies.

December 16, 2010 MoU with National Association of Testing Authorities Australia (NATA).

STANDARDS MALAYSIA was appointed ISO Technical Management Board (TMB) Member for the 2010-2012 terms.

April 19-27, 2010 STANDARDS MALAYSIA successfully organised the meeting of SO/JTC1/SC 27 – IT Security Techniques.

June 23, 2010 STANDARDS MALAYSIA which has been in the forefront in developing international standards for the halal industry, developed two new standards for the cosmetics (MS 2200:2008) and logistics (MS 2400:2010) businesses and these were launched by Y.A.B Dato' Sri Mohd. Najib bin Tun Haji Abdul Razak, Prime Minister of Malaysia at the MATRADE Convention Centre, Kuala Lumpur.

Dec 2-3, 2010 Hosted the ISO/TC206 on Fine Ceramics Meeting in Kuala Lumpur.

YBhg. Datuk Dr. Ahmad Tajuddin Ali, Chairman of Malaysian Accreditation Standards Council (MSAC) was appointed ISO Council Member for the 2010-2011 terms.

Madam Fadilah Baharin, Director General of STANDARDS MALAYSIA was appointed ISO Regional Liaison Officer (RLO) for East and South-East Asia for 2010.

February 21– April 1, 2011 STANDARDS MALAYSIA was involved in Strategic Reform Initiatives (SRI) lab for the New Economic Model (NEM).

June 18-21, 2011 Participated in side events and booth exhibition during Langkawi International Dialogue (LID).

August 8, 2011 YB Datuk Seri Panglima Dr. Maximus Johnity Ongkili, Minister of MOSTI made an official visit to STANDARDS MALAYSIA.

October 13, 2011 The National Standards and Accreditation Awards Ceremony and 15th years STANDARDS MALAYSIA's anniversary.

November 15-19, 2011 Mutual Joint Visit by OECD.

December 22, 2011 Standards of Malaysia (Amendment) Act 2012 [Act A1425] has been approved by Dewan Negara.

April 6-9, 2011 MS 2400 Halal Logistic was launched at the 8th International Halal Showcase (MIHAS), Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur.

July 20-27, 2011 Hosted Malaysian Technical Cooperation Programme (MTCP) on Halal Standards and Conformance Infrastructure for OIC Countries.

September 24-30, 2011 Hosted the 60th ISO/TC 61 on Plastics Meeting in Kuala Lumpur.

October 27, 2011 MoU with Republic of Uganda in areas of Standardisation.

December 6-8, 2011 Workshop on Development of Education about standardisation for developing countries.

15 years
1996-2011
Advancing Standards and Accreditation

PETUNJUK PRESTASI 2011
PERFORMANCE INDICATORS 2011

Petunjuk Prestasi 2011 / Performance Indicators 2011

A. STANDARD / STANDARDS

JADUAL FIGURE A1 Jumlah MS yang Dibangunkan Mengikut Sektor Utama pada Tahun 2011
Number of MS Developed by Sectors in 2011

Sektor / Sectors	Jumlah MS yang Dibangunkan No. of MS Developed
Pertanian / Agriculture	17
Kimia dan Bahan / Chemicals and Materials	11
Kepentingan Pengguna / Consumer Interests	0
Bangunan, Pembinaan dan Kejuruteraan Awam / Building, Construction and Civil Engineering	40
Penjanaan, Transmisi dan Pengagihan Tenaga Generation, Transmission and Distribution of Energy	41
Kejuruteraan Mekanikal / Mechanical Engineering	8
Teknologi Maklumat, Komunikasi dan Multimedia Information Technology, Communications and Multimedia	17
Petroleum dan Gas / Petroleum and Gas	11
Standard Halal / Halal Standards	0
Plastik dan Barangan Plastik / Plastics and Plastics Products	4
Pembungkusan dan Logistik / Packaging and Logistics	0
Kenderaan Jalan / Road Vehicles	10
Pencegahan dan Keselamatan Kebakaran / Fire Safety and Prevention	1
Getah dan Barangan Getah / Rubber and Rubber Products	8
Pengurusan Organisasi / Organisational Management	1
Bahan Logam dan Barangan Separuh Siap / Metallic Materials and Semi-finished Products	12
Tekstil dan Pakaian / Textiles and Apparels	2
Peralatan Perubatan dan Kemudahan untuk Penjagaan Kesihatan Medical Devices and Facilities for Healthcare	69
Peralatan dan Aksesori Elektrik dan Elektronik Electrical and Electronics Equipment and Accessories	23
Pelancongan, Pameran dan Perkhidmatan Mesra / Tourism, Exhibition and Hospitality Services	0
Makanan dan Produk Makanan / Food and Food Products	15
Keselamatan dan Kesihatan Pekerjaan / Occupational Safety and Health	16
Pengurusan Kualiti dan Penentuan Kualiti / Quality Management and Quality Assurance	2
Pengurusan Alam Sekitar / Environmental Management	11
JUMLAH / TOTAL	**319**

Sebanyak 319 MS telah dibangunkan di mana sektor Peralatan Perubatan dan Kemudahan untuk Penjagaan Kesihatan mencatatkan jumlah paling tinggi iaitu sebanyak 69 MS, diikuti oleh Penjanaan, Transmisi dan Pengagihan Tenaga (41), dan Bangunan, Pembinaan dan Kejuruteraan Awam (40).

319 MS were developed with the Medical Devices and Facilities for Healthcare sector recording the highest number at 69 MS, followed by Generation, Transmission and Distribution of Energy (41) and Building, Construction and Civil Engineering (40).

JADUAL FIGURE A2 Status Pembangunan MS pada Tahun 2011
Status of Development of MS in 2011

Pembangunan MS MS Development	Sasaran Tahun 2011 Target 2011	MS yang Dibangunkan pada Tahun 2011 MS Developed in 2011	Perbandingan / Difference	
			Nombor / Number	%
Adopted/Indigenous/Adapted	150	220	70	146.67
Revision	150	99	-51	66.00
JUMLAH / TOTAL	**300**	**319**	**19**	**106.33**

Jumlah MS yang dibangunkan pada tahun 2011 adalah sebanyak 319, iaitu melepasi sasaran 300 MS yang perlu dibangunkan pada tahun tersebut dengan peratusan sebanyak 106.33%.

Total MS developed in 2011 was 319, which exceeded the target of developing 300 MS for the year by 106.33%.

JADUAL FIGURE A3 Jumlah Standard Mandatori Mengikut Sektor pada Tahun 2011
Total Mandatory Standards by Sectors in 2011

Sektor / Sectors	Jumlah Standard Mandatori No. of Mandatory Standards
Pertanian / Agriculture	37
Kimia dan Bahan / Chemicals and Materials	6
Bangunan, Pembinaan dan Kejuruteraan Awam Building, Construction and Civil Engineering	37
Penjanaan, Transmisi dan Pengagihan Tenaga Generation, Transmission and Distribution of Energy	72
Kejuruteraan Mekanikal / Mechanical Engineering	9
Petroleum dan Gas / Petroleum and Gas	6
Kenderaan Jalan / Road Vehicles	14
Pencegahan dan Keselamatan Kebakaran / Fire Safety and Prevention	38
Bahan Logam dan Barangan Separuh Siap / Metallic Materials and Semi Finished Products	48
Peralatan Perubatan dan Kemudahan untuk Penjagaan Kesihatan Medical Devices and Facilities for Healthcare	1
Peralatan dan Aksesori Elektrik dan Elektronik Electrical and Electronics Equipment and Accessories	62
Pengurusan Alam Sekitar / Environmental Management	2
JUMLAH / TOTAL	**332**

Pada tahun 2011, sebanyak 332 standard telah dijadikan standard mandatori, yang mana sektor Penjanaan, Transmisi dan Pengagihan Tenaga Elektrik (72) merupakan sektor tertinggi, diikuti oleh Peralatan dan Aksesori Elektrik dan Elektronik (62), dan Bahan Logam dan Barangan Separuh Siap (48).

In 2011, 332 standards have been made mandatory with the highest for the Generation, Transmission and Distribution of Energy sector (72) followed by Electrical and Electronic Equipment and Accessories (62) and Metallic Materials and Semi Finished Products (48).

B. AKREDITASI / ACCREDITATION

i. SAMM / SAMM

JADUAL FIGURE B1

Permohonan Baru yang Diterima pada Tahun 2011 (SAMM)
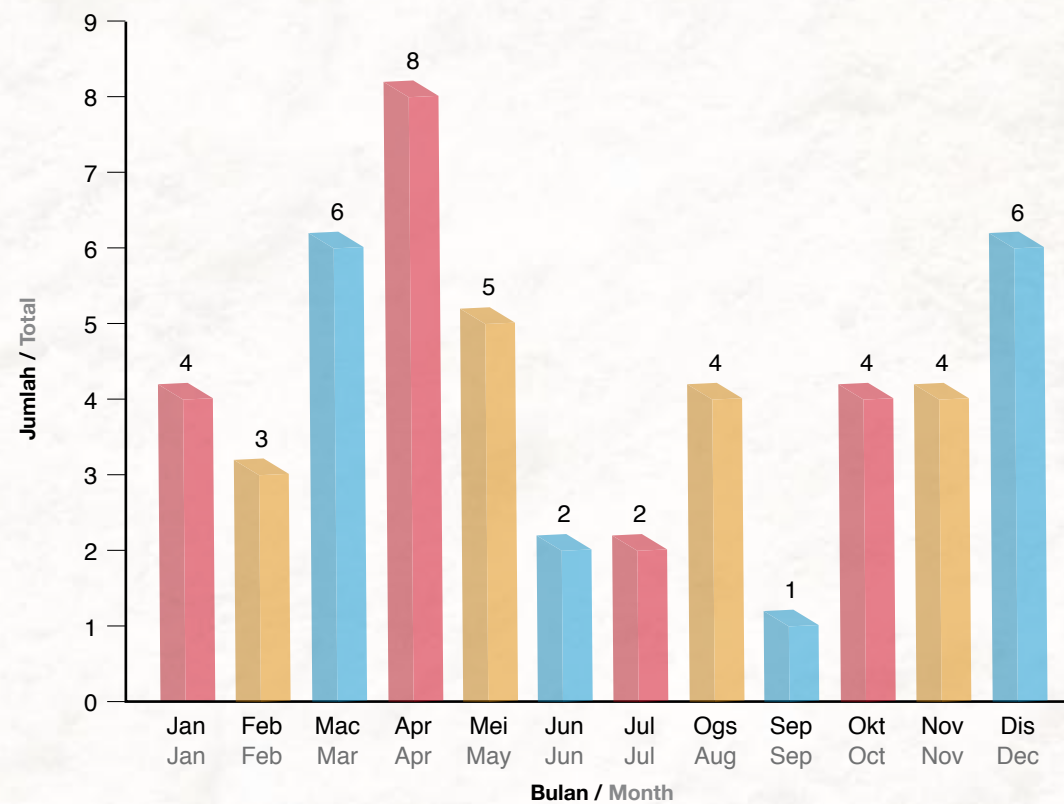New Applications Received in 2011 (SAMM)

	Makmal Penentukuran Calibration Laboratories	Makmal Pengujian Testing Laboratories	Makmal Perubatan Medical Laboratories	Jumlah Total
Bilangan Makmal No. of Laboratories	11	51	23	**85**

Pada tahun 2011, sejumlah 85 permohonan baru telah diterima oleh STANDARDS MALAYSIA yang mana permohonan tertinggi adalah daripada Makmal Pengujian iaitu sebanyak 51.

In 2011, a total of 85 new applications were received by STANDARDS MALAYSIA with applications from Testing Laboratories recording the highest number at 51.

JADUAL FIGURE B2

Jumlah Makmal yang Diakredit pada Tahun 2011
Total Accredited Laboratories in 2011

Sejumlah 49 makmal telah diakredit pada tahun 2011.

A total of 49 laboratories were accredited in 2011.

JADUAL FIGURE B3

Senarai Makmal Baru yang Diakredit pada Tahun 2011
Names of New Laboratories Accredited in 2011

Bil. No.	Nama Makmal Name of Laboratories	Bidang Field
1	IBG Manufacturing Sdn. Bhd.	T
2	Petro Precision Sdn. Bhd.	C
3	Alpine Pipe Manufacturing Sdn. Bhd.	T
4	H & P Calibration Sdn. Bhd.	C
5	RH Biotech Sdn. Bhd.	T
6	Calibration Laboratory, BHIC Electronics and Technologies Sdn. Bhd.	C
7	Mattel Development & Tooling Sdn. Bhd.	T
8	StemLife Berhad	MT
9	Chemsain Konsultant Sdn. Bhd. (Miri)	T
10	Regent Hospital Products Sdn. Bhd.	T
11	Makmal Bioserasi dan Klinikal, Healthmedic Research Sdn. Bhd.	T
12	Buildtest Laboratory Sdn. Bhd.	T
13	Chemical & Microbiology Testing Laboratory (CHEMITEL), Makmal Fakulti Kejuruteraan Kimia & Sumber Asli, Universiti Malaysia Pahang (UMP)	T
14	Testing Laboratory, MIR Valve Sdn. Bhd.	T
15	Kuantan Laboratory, Minerals and Geoscience Department Malaysia	T
16	ALS Technichem (M) Sdn. Bhd. (Kota Kinabalu)	T
17	Mahkota Medical Centre (Laboratory)	MT
18	Lab Science Solution Sdn. Bhd.	C
19	Geneflux Molecular Diagnostics Centre	T
20	Analytical Services, Science & Technology Innovation Centre, Ansell Shah Alam Sdn. Bhd.	T
21	Jabatan Patologi, Hospital Raja Perempuan Zainab II	MT
22	IEQ Technologies (M) Sdn. Bhd.	T
23	Procoma Laboratories (M) Sdn. Bhd.	T
24	ITS Testing Services (M) Sdn. Bhd. (Labuan)	T
25	Makmal Kawalan Mutu, Lembaga Perindustrian Nanas Malaysia	T
26	SaniChem Resources Sdn. Bhd.	T
27	Makmal Diagnosa Veterinar Kota Kinabalu, Jabatan Perkhidmatan Haiwan dan Perusahaan Ternak	T
28	CMS Clinker Laboratory, CMS Clinker Sdn. Bhd.	T
29	Fedmas Assay Office (KL) Sdn. Bhd.	T
30	Toxicology Laboratory, National Poison Center, Universiti Sains Malaysia (USM)	T

MT – Pengujian Perubatan / Medical Testing
T – Pengujian / Testing
C – Penentukuran / Calibration

JADUAL FIGURE B3

Senarai Makmal Baru yang Diakredit pada Tahun 2011 *(bersambung)*
Names of New Laboratories Accredited in 2011 *(continued)*

Bil. No.	Nama Makmal / Name of Laboratories	Bidang Field
31	SPC Industries Sdn. Bhd.	T
32	Makmal Biosekuriti Perikanan KLIA, Sepang, Jabatan Perikanan Malaysia	T
33	PAP Cashnet (M) Sdn. Bhd.	T
34	Department of Pathology, Hospital Tengku Ampuan Afzan	MT
35	Lafarge Cement Sdn. Bhd.	T
36	Wood Mycology Laboratory (WML), Forest Research Institute Malaysia (FRIM)	T
37	Reliability Lab, MIMOS Berhad	T
38	SGS Laboratory Services (M) Sdn. Bhd. (Shah Alam)	T
39	SGS Laboratory Services (M) Sdn. Bhd. (Pulau Pinang)	T
40	Sime-Sirim Technologies Sdn. Bhd. (Kuching)	C
41	TM R&D Laboratories Services, TM Research & Development Sdn. Bhd.	C
42	Jabatan Patologi, Hospital Pulau Pinang	MT
43	Jabatan Patologi, Hospital Raja Permaisuri Bainun	MT
44	The Malaysian Cohort, Institut Perubatan Molekul, UKM (UMBI)	MT
45	Tasek Soil & Materials Lab Sdn. Bhd.	T
46	Enfirst Laboratories Sdn. Bhd.	T
47	Alam Murni EHS Laboratory Sdn. Bhd.	T
48	Acumen Scientific Sdn. Bhd. (Central Branch)	T
49	Trienekens (Sarawak) Sdn. Bhd. (Laboratory)	T

MT – Pengujian Perubatan / Medical Testing
T – Pengujian / Testing
C – Penentukuran / Calibration

JADUAL FIGURE B4

Jumlah Penilaian Makmal pada Tahun 2011
Total Laboratory Assessments in 2011

Jenis Penilaian / Type of Assessment	Jan	Feb	Mac / Mar	Apr	Mei / May	Jun	Jul	Ogs / Aug	Sep	Okt / Oct	Nov	Dis / Dec	JUMLAH TOTAL
Audit Kecukupan / Adequacy Audit	7	1	3	6	7	5	5	5	2	7	5	1	54
Pra Penilaian / Pre-Assessment	3	5	2	1	3	5	1	6	2	7	4	2	41
Pematuhan / Compliance	8	7	3	2	5	4	3	5	3	2	5	2	49
Pemantauan 1 / Surveillance 1	11	1	10	4	8	4	8	10	16	15	19	6	112
Pemantauan 2 / Surveillance 2	6	7	14	5	8	17	11	5	7	3	2	0	85
Penilaian Semula / Re-Assessment	15	7	7	10	13	8	12	4	10	8	15	1	110
Tambahan Skop / Extension of Scope	5	8	13	4	6	4	5	6	6	6	12	2	77
Verifikasi Penandatangan / Signatory Verification	1	0	1	1	2	0	1	1	2	0	1	0	10
Pemantuan dan Tambahan Skop / Surveillance and Extension of Scope	3	3	1	4	1	4	5	2	2	2	6	0	33
Penilaian Semula dan Tambahan Skop / Re-Assessment and Extension of Scope	1	1	3	2	1	1	4	0	0	2	4	0	19
Verifikasi / Verification	1	1	0	1	0	1	4	1	1	3	3	1	17
JUMLAH / TOTAL	**61**	**41**	**57**	**40**	**54**	**53**	**59**	**45**	**51**	**55**	**76**	**15**	**607**

Sejumlah 607 penilaian telah dijalankan pada tahun 2011 dengan catatan tertinggi sebanyak 76 penilaian pada bulan November.
A total of 607 assessments were carried out in 2011 with the highest total of 76 recorded in November.

JADUAL FIGURE B5

Jumlah Makmal yang Menarik Diri daripada Akreditasi Semenjak 1996
Withdrawn Accredited Laboratories Since 1996

	Makmal Penentukuran / Calibration Laboratories	Makmal Pengujian / Testing Laboratories	Makmal Perubatan / Medical Laboratories	Jumlah / Total
Jumlah / Total	25	67	0	92

Sejumlah 92 makmal diakredit telah menarik diri sejak tahun 1996.
Accreditation for 92 laboratories were withdrawn since 1996.

ii. ACB / ACB

JADUAL FIGURE B6

Jumlah Pemohonan yang Diterima di Bawah Skim ACB pada Tahun 2011
Number of Applications Received under ACB Scheme in 2011

Program / Programme	Jumlah Permohonan yang Diterima / No. of Applications Received
Product Certification Systems (PCS)	1
Food Safety Management Systems (FSMS)	1
Occupational Safety and Health (OSH) Management Systems	3
JUMLAH / TOTAL	5

Lima (5) permohonan telah diterima di bawah skim ACB seperti jadual di atas.

Five (5) applications were received under the ACB Scheme as shown in the above figure.

JADUAL FIGURE B7

Jumlah Badan Pensijilan yang Diakredit sehingga 31 Disember 2011
Number of Accredited Certification Bodies as at December 31, 2011

Programme	Kumulatif sehingga 2010 Cumulative up to 2010	2011	Kumulatif sehingga 2011 Cumulative up to 2011	Simbol Akreditasi Accreditation Symbols
QMS	13	1	**14**	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — MS ISO/IEC 17021: 2006 Accreditation Symbol for Quality Management System (QMS)
EMS	8	0	**8**	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — MS ISO/IEC 17021: 2006 Accreditation Symbol for Environmental Management System (EMS)
Produk Product	5	0	**5**	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — MS ISO/IEC GUIDE 65: 2000 Accreditation Symbol for Product Certification Bodies (PCB)
Sistem Pengurusan OSH OSH Management System	3	4	**7**	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — MS ISO/IEC 17021: 2006 Accreditation Symbol for Occupational Safety and Health Management Management System (OSH)

JADUAL FIGURE B7

Jumlah Badan Pensijilan yang Diakredit sehingga 31 Disember 2011 *(bersambung)*
Number of Accredited Certification Bodies as at December 31, 2011 *(continued)*

Programme	Kumulatif sehingga 2010 Cumulative up to 2010	2011	Kumulatif sehingga 2011 Cumulative up to 2011	Simbol Akreditasi Accreditation Symbols
Sistem HACCP HACCP System	3	0	3	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — MS ISO/IEC 17021: 2006 Accreditation Symbol for Hazard Analysis and Critical Control Point Systems (HACCP)
ISMS	0	1	1	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — MS ISO/IEC 27006: 2007 Accreditation Symbol for Information Security Management Systems (ISMS)
FMC	2	0	2	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — MS ISO/IEC 17021: 2006 Accreditation Symbol for Forest Management Certification (FMC)
FSMS	4	0	4	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — ISO/TS 22003: 2007 Accreditation Symbol for Food Safety Management Systems (FSMS)
Personel Personnel	0	0	0	STANDARDS MALAYSIA ACCREDITED CERTIFICATION BODY — MS ISO/IEC 17024: 2003 Accreditation Symbol for Certification of Persons

Nota: Badan pensijilan yang diakredit dibenarkan untuk menggunakan simbol akreditasi STANDARDS MALAYSIA seperti yang tertera dalam Jadual B7.
Note: Accredited certification bodies are allowed to use STANDARDS MALAYSIA accreditation symbols as indicated in Figure B7.

Bilangan badan pensijilan yang diakredit di bawah pelbagai program akreditasi ACB seperti jadual di atas.

The number of certification bodies accredited under the various ACB accreditation programmes is shown in the above figure.

JADUAL B8 / FIGURE B8

Senarai Badan Pensijilan yang telah Diakredit pada Tahun 2011
List of New Accredited CBs in 2011

Bil. / No.	Badan Pensijilan / Certification Body	Program / Programme
1	KGS Certification Sdn. Bhd.	QMS
2	NIOSH Certification Sdn. Bhd.	OSH
3	AJA EQS Certification (M) Sdn. Bhd.	OSH
4	Independent European Certification (M) Sdn. Bhd.	OSH
5	Bureau Veritas Certification (Malaysia) Sdn. Bhd.	OSH
6	SIRIM QAS International Sdn. Bhd.	ISMS

Enam (6) Badan Pensijilan baru telah diakredit di bawah program QMS, OSH dan ISMS seperti jadual di atas.

Six (6) new CBs were accredited under QMS, OSH and ISMS programmes as shown in the above figure.

JADUAL B9 / FIGURE B9

Sijil-sijil yang Dikeluarkan oleh Badan-badan Pensijilan yang Diakredit Mengikut Sektor sehingga 31 Disember 2011
Certificates Issued by Accredited Certification Bodies According to Sectors as at December 31, 2011

Bil. No.	Sektor / Sector	QMS ISO 9001:2008	EMS ISO 14001:2004	OSH OHSAS 18001:2007	OSH MS 1722 Part 1:2005	PC Guide 65
1	Pertanian, Perikanan / Agriculture, Fishing	32	8	5	1	-
2	Perlombongan dan Kuari / Mining and Quarrying	15	7	2	0	-
3	Produk Makanan, Minuman dan Tembakau / Food Products, Beverages and Tobacco	232	107	102	14	-
4	Tekstil dan Produk Tekstil / Textiles and Textile Products	48	5	1	1	-
5	Kulit dan Produk Kulit / Leather and Leather Products	6	-	0	0	-
6	Kayu dan Produk Kayu / Wood and Wood Products	40	9	2	1	112
7	Pulpa, Kertas dan Produk Kertas / Pulp, Paper and Paper Products	105	22	5	1	-
8	Syarikat Penerbitan / Publishing Companies	5	-	0	0	-
9	Syarikat Pencetakan / Printing Companies	47	18	4	0	-
10	Pembuatan Arang Batu dan Produk Petroleum Bertapis / Manufacture of Coke and Refined Petroleum Products	20	10	3	0	-
11	Bahan Api Nuklear / Nuclear Fuel	1	1	0	0	-
12	Kimia, Produk Kimia dan Gentian / Chemicals, Chemical Products and Fibres	238	61	25	7	-
13	Farmaseutikal / Pharmaceuticals	7	2	1	0	-
14	Getah dan Produk Plastik / Rubber and Plastic Products	398	107	20	0	19
15	Produk Mineral Bukan Logam / Non-metallic Mineral Products	45	11	3	0	283

JADUAL B9 / FIGURE B9

Sijil-sijil yang Dikeluarkan oleh Badan-badan Pensijilan yang Diakredit Mengikut Sektor sehingga 31 Disember 2010 (bersambung)
Certificates Issued by Accredited Certification Bodies According to Sectors as at December 31, 2010 (continued)

Bil. No.	Sektor / Sector	QMS ISO 9001:2008	EMS ISO 14001:2004	OSH OHSAS 18001:2007	OSH MS 1722 Part 1:2005	PC Guide 65
16	Konkrit, Simen, Kapur, Plaster, dsb / Concrete, Cement, Lime, Plaster, etc	137	13	14	2	25
17	Logam Asas dan Produk Logam yang Difabrikasi / Basic Metals and Fabricated Metal Products	553	95	33	5	20
18	Pemesinan dan Peralatan / Machinery and Equipment	138	22	12	1	185
19	Peralatan Elektrik dan Optikal / Electrical and Optical Equipment	366	161	48	10	158
20	Pembinaan Kapal / Shipbuilding	6	-	0	0	-
21	Aero-Angkasa / Aerospace	9	2	1	0	-
22	Peralatan Pengangkutan Lain / Other Transport Equipment	51	23	14	0	-
23	Pembuatan yang Tidak Diklasifikasikan di Mana-mana / Manufacturing not Classified Elsewhere	66	8	5	1	3
24	Kitar Semula / Recycling	21	17	7	1	-
25	Bekalan Elektrik / Electricity Supply	35	21	22	9	-
26	Bekalan Gas / Gas Supply	3	3	3	1	-
27	Bekalan Air / Water Supply	22	5	2	0	-
28	Pembinaan / Construction	901	48	68	41	-
29	Jualan Borong dan Runcit; Pembaikan Kenderaan Bermotor, Motosikal dan Barangan Rumah dan Peribadi / Wholesale and Retail Trade; Repair of Motor Vehicles, Motorcycles and Personal and Household Goods	235	25	16	3	-
30	Hotel dan Restoran / Hotels and Restaurants	24	9	6	1	-
31	Pengangkutan, Penyimpanan dan Komunikasi / Transport, Storage and Communication	189	25	36	6	-
32	Pengantaraan Kewangan; Hartanah; Penyewaan / Financial Intermediation; Real Estate; Renting	113	5	4	3	-
33	Teknologi Maklumat / Information Technology	67	1	2	0	-
34	Perkhidmatan Kejuruteraan / Engineering Services	363	44	34	18	-
35	Perkhidmatan Lain / Other Services	210	15	16	2	-
36	Pentadbiran Awam / Public Administration	376	8	3	2	-
37	Pendidikan / Education	230	2	4	2	-
38	Kerja Sosial dan Kesihatan / Health and Social Work	208	3	5	0	-
39	Perkhidmatan Sosial Lain / Other Social Services	95	10	4	4	-
	JUMLAH / TOTAL	5,657	933	532	137	702

Sijil-sijil QMS, EMS, OSH dan PC yang telah dikeluarkan kepada 39 sektor, adalah seperti jadual di atas.

QMS, EMS, OSH and PC certificates were issued to 39 sectors as shown in the above figure.

JADUAL FIGURE B10

Sijil-sijil yang Dikeluarkan oleh Badan-badan Pensijilan yang Diakredit Mengikut Kategori bagi FSMS sehingga 31 Disember 2011
Certificates Issued by Accredited Certification Bodies According to Categories for FSMS as at December 31, 2011

Kod Kategori Category Code	Kategori Category	FSMS ISO 22000
A	Pertanian 1 (Haiwan) / Farming 1 (Animals)	1
B	Pertanian 1 (Tumbuhan) / Farming 2 (Plants)	0
C	Pemprosesan 1 (Produk haiwan yang mudah rosak) Processing 1 (Perishable animal products)	3
D	Pemprosesan 2 (Produk tumbuhan yang mudah rosak) Processing 2 (Perishable vegetal products)	1
E	Pemprosesan 3 (Produk disimpan dalam suhu persekitaran dengan jangka hayat yang lama) Processing 3 (Products with long shelf life ambient temperature)	25
F	Pengeluaran makanan / Feed production	1
G	Katering / Catering	0
H	Pengedaran / Distribution	1
I	Perkhidmatan / Services	1
J	Pengangkutan dan penstoran / Transport and storage	1
K	Pembuatan peralatan / Equipment manufacturing	0
L	Pembuatan (bio)kimia / (Bio)chemical manufacturing	5
M	Pembuatan bahan pembungkusan / Packaging material manufacturing	15
	JUMLAH / TOTAL	54

JADUAL FIGURE B11

Sijil-sijil yang Dikeluarkan oleh Badan-badan Pensijilan yang Diakredit Mengikut Kategori bagi HACCP sehingga 31 Disember 2011
Certificates Issued by Accredited Certification Bodies According to Categories for HACCP as at December 31, 2011

Kod Kategori Category Code	Kategori Category	HACCP MS 1480
C	Pemprosesan 1 (Produk haiwan yang mudah rosak) Processing 1 (Perishable animal products)	29
D	Pemprosesan 2 (Produk tumbuhan yang mudah rosak) Processing 2 (Perishable vegetal products)	21
E	Pemprosesan 3 (Produk disimpan dalam suhu persekitaran dengan jangka hayat yang lama) Processing 3 (Products with long shelf life ambient temperature)	147
G1	Katering / Catering	12
G2	Hotel / Hotel	4
L	Aditif Makanan dan Makanan Tambahan / Food Additives and Supplements	8
	JUMLAH / TOTAL	221

JADUAL FIGURE B12

Sijil-sijil yang Dikeluarkan oleh Badan-badan Pensijilan yang Diakredit Mengikut Skop Sektor bagi FMC sehingga 31 Disember 2011
Certificates Issued by Accredited Certification Bodies According to Sector Scope for FMC as at December 31, 2011

Bil. / No.	Huraian (Skop Sektor) / Description (Sector Scope)	Pengurusan Pensijilan Hutan (FMC) / Forest Management Certification (FMC)
1	Hutan Semulajadi [MC&I (2002)] / Natural Forests [MC&I (2002)]	9
2	Perladangan Hutan [MC&I (Perladangan Hutan)] Forest Plantations [MC&I (Forest Plantations)]	0

iii. MIBAS / MIBAS

JADUAL FIGURE B13

Jumlah Permohonan Mengikut Bidang pada Tahun 2011
Number of Applicants According to Fields in 2011

Bidang / Field	Bilangan / Number
Pemeriksaan Ujian Tanpa Musnah (NDT) / Non Destructive Testing (NDT) Inspections	3
Pemeriksaan Kimpalan / Welding Inspections	1
JUMLAH / TOTAL	4

JADUAL FIGURE B14

Jumlah Badan Pemeriksa yang Diakredit Di Bawah MIBAS pada Tahun 2011
Number of Inspection Bodies accredited under MIBAS in 2011

No. MIBAS MIBAS No.	Nama Badan Pemeriksa Name of Inspection Body	Bidang / Field
004	Puspakom Sdn. Bhd., Cawangan Wangsa Maju	Pemeriksaan Kenderaan / Vehicle Inspection
005	Petrotechnical Inspection Sdn. Bhd.	Pemeriksaan NDT / NDT Inspection
006	Industrial Services, SGS (Malaysia) Sdn. Bhd.	Pemeriksaan Kimpalan / Welding Inspection

iv. Fasiliti Kajian Pematuhan GLP / GLP Compliant Test Facility

JADUAL FIGURE B15

Nama Fasiliti Kajian Pematuhan GLP CP Baru pada Tahun 2011
Name of New GLP CP Compliant Test Facilities in 2011

No. GLP GLP No.	Nama Fasiliti Kajian Name of Test Facility	Bidang / Field
003	Toxicology Laboratory, Melaka Biotechnology Corporation	Mutagenicity testing
004	Environment Technology Research Centre, SIRIM Berhad	Mutagenicity testing; Kajian ketoksikan alam sekitar terhadap organisma akuatik / Environmental Toxicity Studies on aquatic organisms; Kajian ke atas tingkah laku di dalam air, tanah dan udara; Biodegradasi / Studies on behaviour in water, soil and air; Biodegradation

Prestasi Kumulatif / Cumulative Performance

C. STANDARD/ STANDARDS

JADUAL FIGURE C1

Perkembangan Pembangunan Malaysian Standards dari Tahun 1996-2011
The Development Progress of Malaysian Standards from 1996-2011

	Tahun / Year															
Jumlah MS yang Dibangunkan / No. of MS Developed	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	2,416	2,486	2,625	2,671	2,889	2,705	2,878	3,265	3,651	4,085	4,570	5,060	5,518	5,792	6,260	6,308

Jumlah kumulatif MS yang dibangunkan dari 1996 hingga 2011 adalah sebanyak 6,308. Rekod tersebut menunjukkan peningkatan dari tahun ke tahun kecuali pada tahun 2001.
Cumulative MS developed from 1996 to 2011 was 6,308. The record rose from year to year except in year 2001.

JADUAL FIGURE C2

Jumlah MS yang Dibangunkan Setiap Tahun dari Tahun 2006-2011
Number of MS Developed Every Year From 2006-2011

Tahun / Year	Jumlah MS yang Dibangunkan / No. of MS Developed
2006	503
2007	547
2008	577
2009	443
2010	678
2011	319

Jumlah MS yang dibangunkan pada tahun 2011 adalah sebanyak 319, lebih rendah daripada yang dibangunkan pada tahun-tahun sebelumnya. Ia sejajar dengan fokus baru untuk membangunkan MS yang didorong oleh industri dengan potensi pengguna sedia ada..
The number of MS developed in 2011 was 319, lower than those developed in previous years, in line with the new focus of developing industry-driven MS with the potential of ready users.

JADUAL FIGURE C3

Status Pembangunan MS dari Tahun 2006-2011
Status of Development of MS from 2006-2011

Tahun / Year	2006	2007	2008	2009	2010	2011
Jumlah MS / Number of MS	4,570	5,060	5,518	5,792	6,260	6,308

Sebanyak 6,308 MS jumlah kumulatif telah dibangunkan dari tahun 2006 sehingga 2011.
The cumulative total of 6,308 MS was developed from 2006 to 2011.

JADUAL FIGURE C4

Jumlah Penjajaran MS dengan Standard Antarabangsa dari Tahun 2006-2011
Number of MS Aligned to International Standards from 2006-2011

Tahun / Year	Jumlah MS Dibangunkan Number of MS Developed	Jumlah Penjajaran MS dengan Standard Antarabangsa No. of MS Aligned to International Standards
2006	4,570	2,436
2007	5,060	2,563
2008	5,518	3,053
2009	5,792	3,481
2010	6,260	3,759
2011	6,308	3,916

Sehingga tahun 2011, sebanyak 6,308 MS atau 62.1% dari jumlah 3,916 MS yang dibangunkan adalah sejajar dengan standard antarabangsa.
As at 2011, out of 6,308 MS developed, 3,916 MS or 62.1% were aligned to international standards.

JADUAL FIGURE C5

Jumlah Kumulatif Standard Mandatori dari Tahun 2006-2011
Cumulative Number of Mandatory Standards from 2006-2011

Tahun / Year	Jumlah MS / No. of MS
2006	123
2007	127
2008	210
2009	225
2010	328
2011	332

Jumlah kumulatif standard mandatori telah meningkat daripada 123 MS pada tahun 2006 kepada 332 MS pada tahun 2011.
Cumulative mandatory standards increased from 123 MS in 2006 to 332 in 2011.

JADUAL FIGURE C6

Jumlah Kumulatif MS yang Dibangunkan Mengikut Sektor sehingga 31 Disember 2011
Cumulative Number of MS Developed by Sectors as at December 31, 2011

Sektor / Sector	Jumlah MS Number of MS
Pertanian / Agriculture	597
Kimia dan Bahan / Chemicals and Materials	757
Kepentingan Pengguna / Consumer Interests	0
Bangunan, Pembinaan dan Kejuruteraan Awam Building, Construction and Civil Engineering	338
Penjanaan, Transmisi dan Pengagihan Tenaga Generation, Transmission and Distribution of Energy	869
Kejuruteraan Mekanikal / Mechanical Engineering	322
Teknologi Maklumat, Komunikasi dan Multimedia Information Technology, Communication and Multimedia	729
Petroleum dan Gas / Petroleum and Gas	225
Standard Halal / Halal Standards	11
Plastik dan Barangan Plastik / Plastics and Plastics Products	377
Pembungkusan dan Pengedaran / Packaging and Logistics	113
Kenderaan Jalan / Road Vehicles	220
Pencegahan dan Keselamatan Kebakaran / Fire Safety and Prevention	90
Getah dan Barangan Getah / Rubber and Rubber Products	184
Pengurusan Organisasi / Organisational Management	9
Bahan Logam dan Barangan Separuh Siap Metallic Materials and Semi-finished Products	184
Tekstil dan Pakaian / Textiles and Apparels	278
Peralatan Perubatan dan Kemudahan untuk Penjagaan Kesihatan Medical Devices and Facilities for Healthcare	374
Peralatan dan Aksesori Elektrik dan Elektronik Electrical and Electronics Equipment and Accessories	118
Pelancongan, Pameran dan Perkhidmatan Mesra Tourism, Exhibition and Hospitality Services	14
Makanan dan Produk Makanan / Food and Food Products	81
Keselamatan dan Kesihatan Pekerjaan / Occupational Safety and Health	206
Pengurusan Kualiti dan Penentuan Kualiti Quality Management and Quality Assurance	120
Pengurusan Alam Sekitar / Environmental Management	92
JUMLAH / TOTAL	**6,308**

Jumlah kumulatif MS yang dibangunkan sehingga 31 Disember 2011 adalah sebanyak 6,308. Jumlah tertinggi MS yang dibangunkan adalah dalam sektor Penjanaan, Transmisi dan Pengagihan Tenaga (869), diikuti oleh Kimia dan Bahan (757) dan Teknologi Maklumat, Komunikasi dan Multimedia (729). Manakala, tiada MS yang dibangunkan untuk sektor Kepentingan Pengguna.

Cumulative number of MS developed up to December 31, 2011 was 6,308. The highest number of MS developed was in the Generation, Transmission and Distribution of Energy (869), followed by Chemicals and Materials (757) and Information Technology, Communication and Multimedia (729) whereas no MS was developed in Consumer Interests.

JADUAL FIGURE C7

Kumulatif Penjajaran MS dengan Standard Antarabangsa sehingga 31 Disember 2011
Alignment of Cumulative MS to International Standards as at December 31, 2011

Bidang / Field	(31 Disember 2011) / (December 31, 2011)		
	Jumlah Kumulatif MS yang Dibangunkan Cumulative MS Developed	MS yang Dijajarkan Aligned MS	
		Identical	Modified
Pertanian / Agriculture	597	124	6
Kimia dan Bahan / Chemicals and Materials	757	406	60
Kepentingan Pengguna / Consumer Interests	0	0	0
Bangunan, Pembinaan dan Kejuruteraan Awam Building, Construction and Civil Engineering	338	66	4
Penjanaan, Transmisi dan Pengagihan Tenaga Power Generation, Transmission and Distribution of Energy	869	653	33
Kejuruteraan Mekanikal / Mechanical Engineering	322	174	5
Teknologi Maklumat, Komunikasi dan Multimedia Information Technology, Communication and Multimedia	729	672	3
Petroleum dan Gas / Petroleum and Gas	225	119	6
Standard Halal / Halal Standards	11	0	0
Plastik dan Barangan Plastik / Plastics and Plastics Products	377	186	16
Pembungkusan dan Pengedaran / Packaging and Logistics	113	56	0
Kenderaan Jalan / Road Vehicles	220	127	12
Pencegahan dan Keselamatan Kebakaran / Fire Safety and Prevention	90	34	2
Getah dan Barangan Getah / Rubber and Rubber Products	184	108	19
Pengurusan Organisasi / Organisational Management	9	9	0
Bahan Logam dan Barangan Separuh Siap Metallic Materials and Semi Finished Products	184	90	18
Tekstil dan Pakaian / Textiles and Apparels	278	83	2
Peralatan Perubatan dan Kemudahan Penjagaan Kesihatan Medical Devices and Facilities for Healthcare	374	321	4
Peralatan dan Aksesori Elektrik dan Elektronik Electrical and Electronics Equipment and Accessories	118	77	7
Pelancongan, Pameran dan Perkhidmatan Mesra Tourism, Exhibition and Hospitality Services	14	10	1
Makanan dan Produk Makanan / Food and Food Products	81	48	3
Keselamatan dan Kesihatan Pekerjaan / Occupational Safety and Health	206	161	4
Pengurusan Kualiti dan Penentuan Kualiti Quality Management and Quality Assurance	120	115	3
Pengurusan Alam Sekitar / Environmental Management	92	69	0
JUMLAH / TOTAL	**6,308**	**3,708**	**208**
PERATUS PENJAJARAN KUMULATIF / RATE OF ALIGNMENT	**62.08%**		

Peratus kumulatif MS yang dibangunkan yang sejajar dengan standard antarabangsa sehingga 31 Disember 2011 adalah sebanyak 62.08%.

The percentage of cumulative MS developed and aligned to international standards as at December 31, 2011 was 62.08%.
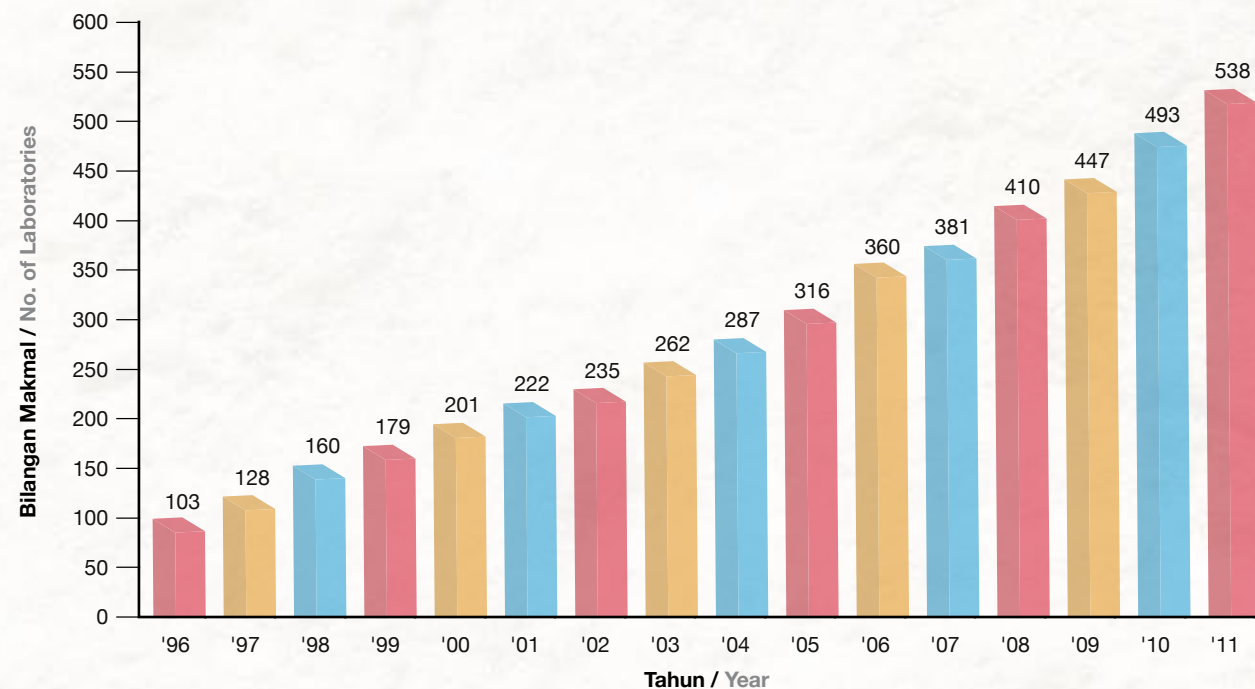
D. AKREDITASI / ACCREDITATION

i. SAMM / SAMM

Jumlah Makmal yang Diakredit dari 1996-2011
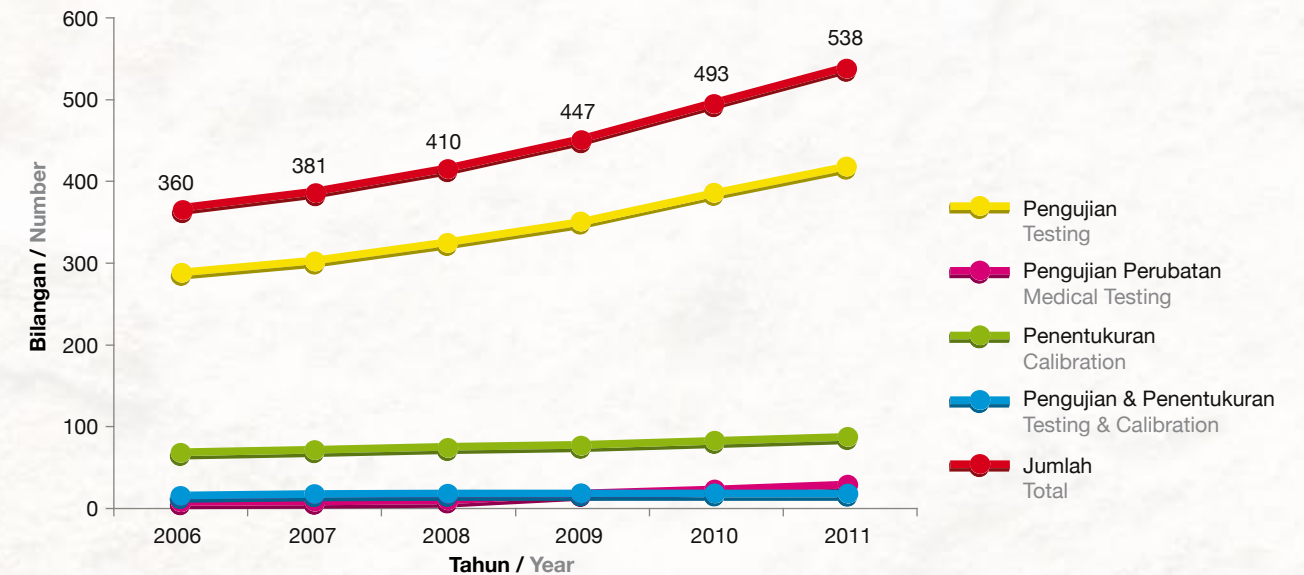Number of Accredited Laboratories from 1996-2011

Bidang / Field	Jumlah Bilangan Makmal yang Diakredit Total Number of Accredited Laboratories	
	Kumulatif / Cumulative	Aktif / Active
Pengujian / Testing	416	349
Penentukuran / Calibration	83	58
Pengujian dan Penentukuran / Calibration and Testing	14	13
Pengujian Perubatan / Medical Testing	25	25
JUMLAH / TOTAL	538	445

Dari tahun 1996 hingga 2011, jumlah kumulatif makmal yang diakredit ialah 538, di mana sebanyak 445 kekal aktif.

From 1996 to 2011, cumulative number of accredited laboratories was 538, of which 445 remained active.

Jumlah Makmal yang Diakredit mengikut Kategori dari Tahun 1996-2011
Breakdown of the Number of Accredited Laboratories from 1996-2011

Pada tahun 2011, sebanyak 538 makmal telah diakredit di mana ia menunjukkan peningkatan berbanding dengan tahun sebelumnya.

In 2011, 538 laboratories were accredited, which was a marked increase from previous years.

Statistik SAMM 2006-2011
SAMM Statistic 2006-2011

	2006	2007	2008	2009	2010	2011
Jumlah Makmal yang Diakredit No. of Accredited Labs	44	21	29	37	46	47
Akreditasi Kumulatif / Cumulative Accreditation	360	381	410	447	493	538
Jumlah Penilaian / No. of Assessments	320	424	460	559	574	607
Jumlah Makmal yang Menarik Diri daripada Akreditasi No. of Cumulative Withdrawn Labs	60	64	79	80	87	92

Pada tahun 2011, bilangan makmal yang diakredit (47), akreditasi kumulatif (538), jumlah penilaian (607) dan jumlah akreditasi makmal yang menarik diri (92).

In 2011, number of accredited laboratories (47), cumulative accreditation (538), number of assessments (607) and number of cumulative withdrawn laboratories (92) respectively.

ii. ACB / ACB

JADUAL **D4**
FIGURE

Jumlah Badan Pensijilan yang Diakredit dari 2006-2011
Number of CBs Accredited from 2006-2011

Program Programme	Badan Pensijilan yang Diakredit CBs Accredited						Keseluruhan Jumlah Badan Pensijilan yang Diakredit dari 1996 sehingga 2011 Total Cumulative Number of Accredited CBs from 1996 to 2011
	2006	2007	2008	2009	2010	2011	
QMS / QMS	2	1	0	1	2	1	14
EMS / EMS	3	0	1	0	0	0	8
PC / PC	1	0	0	2	1	0	5
OSH / OSH	0	1	1	0	0	4	7
HACCP / HACCP	0	1	2	0	0	0	3
ISMS / ISMS	0	0	0	0	0	1	1
FMC / FMC	N/A	0	0	2	0	0	2
FSMS / FSMS	N/A	N/A	1	1	2	0	4
PERSONEL / PERSONNEL	N/A	N/A	0	0	0	0	0

N/A: menunjukkan program yang dinyatakan tidak ditawarkan pada tahun tersebut.
N/A: indicates that the programme was not offered during the year.

Jadual di atas menunjukkan jumlah Badan Pensijilan yang diakredit oleh STANDARDS MALAYSIA dari tahun 2006 hingga 2011 mengikut program yang ditawarkan. Terdapat satu Badan Pensijilan yang menarik diri di bawah Program QMS pada tahun 2011.

The above figure shows the number of CBs accredited by STANDARDS MALAYSIA from 2006 to 2011 according to various programmes offered. There was one CB withdrawn under QMS programme in 2011.

iii. MIBAS / MIBAS

JADUAL **D5**
FIGURE

Jumlah Badan Pemeriksa yang Diakredit Mengikut Bidang
Number of Accredited Inspection Bodies According to Field

Bidang / Field	Jumlah Bilangan Badan Pemeriksa Total Number of Inspection Bodies
Pemeriksaan Produk / Product Inspections	2
Audit Kilang / Factory Audits	1
Pemeriksaan Kimpalan / Welding Inspections	2
Pemeriksaan NDT / NDT Inspections	1
Pemeriksaan Kenderaan / Vehicle Inspections	1

JADUAL **D6**
FIGURE

Statistik MIBAS 2006-2011
MIBAS Statistic 2009-2011

	2009	2010	2011
Jumlah Badan Pemeriksa yang Diakredit No. of Accredited Inspection Bodies	1	2	3
Kumulatif / Cumulative	1	3	6

iv. Fasiliti Kajian di dalam Program Pematuhan GLP / GLP Compliant Test Facility

JADUAL **D7**
FIGURE

Bilangan Kumulatif Fasiliti Kajian Pematuhan GLP (2010-2011)
Number of Cumulative GLP Compliant Test Facility (2010-2011)

No. GLP GLP No.	Nama Fasiliti Kajian Name of Test Facility	Bidang / Field
001	Acumen Scientific Sdn. Bhd.	Pengujian Fizikal-Kimia Physical-chemical testing
002	Sumitomo Chemical Enviro-Agro Asia Pacific Sdn. Bhd.	Pengujian Fizikal-Kimia Physical-chemical testing
003	Toxicology Laboratory, Melaka Biotechnology Corporation	Mutagenicity testing
004	Environment Technology Research Centre, SIRIM Berhad	Mutagenicity testing
		Kajian ketoksikan alam sekitar terhadap organisma akuatik Environmental Toxicity Studies on aquatic organisms
		Kajian ke atas tingkah laku di dalam air, tanah dan udara; Biodegradasi Studies on behaviour in water, soil and air; Biodegradation

E. PENGLIBATAN PADA PERINGKAT ISO/IEC
PARTICIPATION AT ISO/IEC LEVEL

JADUAL FIGURE E1

Penglibatan Malaysia dalam ISO/TC/SC
Summary of Malaysia's Participation in ISO/TC/SC

JENIS KEAHLIAN MEMBERSHIP	TC			SC			JUMLAH / TOTAL		
	2009	2010	2011	2009	2010	2011	2009	2010	2011
Participating (P)	1	3	4	5	1	5	6	4	9
Observer (O)	1	6	2	2	1	2	3	7	4

Pada tahun 2011, keahlian "P" dan "O" Malaysia di dalam ISO/TC masing-masing berjumlah 9 dan 4.
In 2011, Malaysia's "P" and "O" membership totaled 9 and 4 respectively.

JADUAL FIGURE E2

Penglibatan Penyertaan Malaysia dalam IEC/TC/SC
Summary of Malaysia's Participation in IEC/TC/SC

JENIS KEAHLIAN MEMBERSHIP	TC			SC			JUMLAH / TOTAL		
	2009	2010	2011	2009	2010	2011	2009	2010	2011
Participating (P)	1	4	3	0	1	1	0	5	4
Observer (O)	1	1	1	0	0	0	1	1	1

Pada tahun 2011, keahlian "P" dan "O" di Malaysia dalam IEC/TC masing-masing berjumlah 4 dan 1.
STANDARDS MALAYSIA held 4 "P" and 1 "O" memberships in IEC/TC in 2011.

JADUAL FIGURE E3

Jumlah Penglibatan Sebagai Ahli "P" dalam ISO dan IEC pada Tahun 2010 dan 2011
Cumulative Number of Participating "P" Membership of ISO and IEC in 2010 and 2011

2010		2011	
ISO	IEC	ISO	IEC
124	22	134	26

Pada tahun 2011, jumlah keahlian "P" Malaysia dalam ISO dan IEC masing-masing adalah 134 dan 26.
Malaysia's total "P" memberships in both ISO and IEC in 2011 are 134 and 26 respectively.

JADUAL FIGURE E4

Keahlian dalam ISO dari Tahun 1969 – 2011
Memberships in ISO from 1969 – 2011

Keahlian / Member (Participating – "P')	Keahlian / Member (Observer – "O")
134	130

Jumlah kumulatif keahlian "P" and "O" dalam ISO dari tahun 1969 hingga 2011 masing-masing adalah 134 dan 130.
Cumulative "P" and "O" memberships in ISO from 1969 to 2011 are 134 and 130 respectively.

JADUAL FIGURE E5

Keahlian dalam IEC dari Tahun 1991 – 2011
Memberships in IEC from 1991 – 2011

Keahlian / Member (Participating – "P')	Keahlian / Member (Observer – "O")
26	77

Jumlah kumulatif keahlian "P" and "O" dalam IEC dari tahun 1991 hingga 2011 masing-masing adalah 26 dan 77.
Cumulative "P" and "O" memberships in IEC from 1991 to 2011 are 26 and 77 respectively.

JADUAL FIGURE E6

Keahlian dalam ISO dan IEC TC/SC pada 2011
Memberships in ISO and IEC TCs/SCs in 2011

Pada 2011, Malaysia telah menyertai TC seperti berikut:
In 2011, Malaysia sits in the following TCs:

Ahli "P" / "P" Members	
ISO/TC 8	Ship and Marine Technology
ISO/TC 67/SC 7	Offshore Structures
ISO/TC 67	Materials, Equipment & Offshore Structures for Petroleum, Petrochemical & Natural Gas Industries
ISO/TC 260	Human Resource Management
ISO/IEC JTC 1/SC 7	Software & Systems Engineering
ISO/TC 8/SC 1	Lifesaving and fire protection
ISO/TC 8/SC 2	Marine environment protection
ISO/TC 8/SC 6	Navigation and ship operations
ISO/TC 267	Facilities Management
ISO/TC 212	Clinical Laboratory Testing In Vitro Diagnostic Testing System
IEC/TC 8	Energy Efficiency and Renewable Energy Sources – Common International Terminology
IEC/SC 59M	Performance of household and similar electrical appliances
IEC/TC 42	High-Voltage and high-current test techniques

Ahli "O" / "O" Members	
ISO/TC 69/SC 7	Applications of statistical and related techniques for the implementation of Six Sigma
ISO/TC 69/SC 8	Applications of statistical and related methodology for new technology and products development
ISO/TC 255	Biogas
ISO/TC 266	Biomimetics
IEC/TC 95	Measuring Relays and Protection Equipment

| JADUAL FIGURE **E7** | | Senarai Jawatan Pengerusi yang Dipegang oleh Malaysia
Number of Chairmanships in ISO held by Malaysia |
|---|---|---|
| 1 | ISO/TC 45 (Rubber and Rubber Products) | |
| 2 | ISO/TC 45/SC 4 (Products and other than Hoses) | |
| 3 | ISO/TC 157 (Mechanical Contraceptives) | |
| 4 | ISO/TC 207/SC 7 (Green House Gas Management and related activities) | |

| JADUAL FIGURE **E8** | | Senarai Sekretariat ISO TC/SC yang dipegang oleh Malaysia
Number of ISO/TC/SC Secretariats held by Malaysia |
|---|---|---|
| 1 | ISO/TC 45 (Rubber and Rubber Products) | |
| 2 | ISO/TC 45/SC 1 (Rubber and Plastic Hoses) | |
| 3 | ISO/TC 45/SC 4 (Products and other than Hoses) | |
| 4 | ISO/TC 157 (Mechanical Contraceptives) | |
| 5 | ISO/PC 240 (Product Recall) | |

| JADUAL FIGURE **E9** | | Senarai Convenorship dalam ISO yang Dipegang oleh Malaysia
Number of Convenorships in ISO held by Malaysia |
|---|---|---|
| 1 | ISO/TC 45/SC 3/WG 4 - Natural Rubber | |
| 2 | ISO/TC 45/SC 4/WG 5 - Gloves for medical application | |
| 3 | ISO/TC 61/SC 2/WG 2 - Hardness and surface properties | |
| 4 | ISO/TC 157/CAG - Mechanical Contraceptives (Chairman Advisory Group) | |
| 5 | ISO/TC 218/WG 4 - Test Methods | |

| JADUAL FIGURE **E10** | | Senarai Convenorship dalam IEC yang Dipegang oleh Malaysia
Number of Convenorships in IEC held by Malaysia |
|---|---|---|
| 1 | IEC/TC 82/ JCWG - Joint committee working group on decentralised renewable energy | |
| 2 | IEC/ TC 115/ Project Team 1 (PT 1) - Guidelines for Asset Management on HVDC Installation | |

Singkatan Kata

5S	Sistem Kaizen (Amalan Kualiti Persekitaran Tempat Kerja)
ACB	Skim Akreditasi Badan-Badan Pensijilan
ACCSQ	ASEAN Consultative Committee for Standards and Quality
APEC	Kerjasama Ekonomi Asia Pasifik
APHM	Persatuan Hospital Swasta Malaysia
APLAC	Asia Pacific Laboratory Accreditation Cooperation
ASEAN	Association of South East Asian Nations
BAB	Bangladesh Accreditation Board
CAB	Badan-Badan Penilaian Pematuhan
CB Scheme	Skim bagi Badan-Badan Pensijilan
CB	Badan Pensijilan
CHEMITEL	Chemical & Microbiology Testing Laboratory
CMA	Compliance Monitoring Authority
CNAS	China National Accreditation Service for Conformity Assessment
COMCEC	Standing Committee for Economic and Commercial Cooperation of OIC
COP	Codes of Practice
COPOLCO	Committee on Consumer Policy
CSL	Persaingan, Standard dan Liberalisasi
EMS	Sistem Pengurusan Alam Sekitar
EPU	Unit Perancang Ekonomi
ETP	Program Transformasi Ekonomi
EU	European Union
FMC	Forest Management Certification
FRIM	Forest Research Institute Malaysia
FSMS	Food Safety Management Systems
FTA	Free Trade Agreement
GLP	Good Laboratory Practice
GMP	Amalan Pengilangan Baik
GRP	Good Regulatory Practice
HACCP	Hazard Analysis and Critical Control Point
HALFest	Pesta Halal Malaysia
HKAS	Hong Kong Accreditation Service
IAF	International Accreditation Forum
ICCC	International Common Criteria Conference
ICUDBE	International Conference on Universal Design in Built Environment
IEC	International Electro-technical Commission
IECEE	Worldwide System for Conformity Testing and Certification of Electro-technical Equipment and Components
IECex	IEC Scheme for Certification to Standards relating to Equipment for Use in Explosive Atmosphere

IIUM	Universiti Islam Antarabangsa Malaysia
IKM	Institut Kimia Malaysia
ILAC	International Laboratory Accreditation Cooperation
IPHARM	Institutes for Pharmaceutical & Nutriceutical Malaysia
ISC	Industry Standards Committee
ISMS	Information Security Management Systems
ISO	International Organization for Standardization
JPPSM	Jawatankuasa Penyelarasan Pelaksanaan Standard Mandatori
KDNK	Keluaran Dalam Negara Kasar
KLCC	Pusat Konvensyen Kuala Lumpur
KLIIF	Festival Islam Antarabangsa Kuala Lumpur
KPDNKK	Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan
LAEP	Panel Penilaian Akreditasi Makmal
LID	Langkawi International Dialogue
MCM	Metrology Corporation Malaysia
MIBAS	Skim Akreditasi Badan-Badan Pemeriksa Malaysia
MIHAS	Malaysian International Halal Showcase
MITEC	Malaysia Institute of Industrial Technology
MJV	Mutual Joint Visit
MKA	Makmal Kesihatan Awam
MLA	Multilateral Recognition Arrangement
MOSTI	Kementerian Sains, Teknologi dan Inovasi Malaysia
MoU	Memorandum Persefahaman
MPC	Malaysian Productivity Corporation
MRA	Mutual Recognition Arrangement
MS	Standard Malaysia
MSDAM	Majlis Standard dan Akreditasi Malaysia
MSTH	Hab Pengujian Perisian Malaysia
MTV	Malaysia-Thailand-Vietnam
MyENC	Jawatankuasa Kebangsaan IEC
MyGLPC	Jawatankuasa Good Laboratory Practice
MyNAC	Jawatankuasa Akreditasi Kebangsaan Malaysia
MyNMTAC	Jawatankuasa Akreditasi Pengujian Perubatan Kebangsaan Malaysia
MyNSC	Jawatankuasa Standard Kebangsaan Malaysia
MySTI-Expo	Expo Sains, Teknologi dan Inovasi Malaysia
NCCIE	National Committee of the CIE
NDT	Pemeriksaan Ujian Tanpa Musnah
NGO	Organisasi Bukan Kerajaan

Singkatan Kata *(sambungan)*

NKEA	Bidang Ekonomi Utama Negara
OECD	*Organisation for Economic Cooperation and Development*
OIC	Pertubuhan Persidangan Islam
OSH	*Occupational Safety and Health*
PAC	*Pacific Accreditation Cooperation*
PC	Pensijilan Produk
PCS	*Product Certification System*
PT	*Proficiency Testing*
PTB	*Physikalisch-Technische Bundesanstalt*
PTP	*Proficiency Testing Provider*
PWTC	*Putra World Trade Centre*
QMS	Sistem Pengurusan Kualiti
QSEL	*Quality, Safety, Environment and Laboratory Informatics*
R&D	Penyelidikan dan Pembangunan
RMK10	Rancangan Malaysia Ke-10
RMP	*Reference Material Producer*
SAMM	Skim Akreditasi Makmal Malaysia
SC	Kriteria Spesifik
SCQA	*Standards Certification Quality Assurance*
SCSC	*Sub-Committee on Standards and Conformance*
SIRIM	SIRIM Berhad

SMR	*Standard Malaysian Rubber*
SOFTEC	*Software Testing Conference*
SRI	Inisiatif Pembaharuan Strategik
STI	Sains, Teknologi dan Inovasi
STANDARDS MALAYSIA	Jabatan Standard Malaysia
STANDARDS USERS	*Malaysian Association of Standards Users*
STR	Keperluan Teknikal Spesifik
STST	*Software Testing Straight Talk*
TBT	*Technical Barriers to Trade*
TC	Jawatankuasa Teknikal
TMB	Majlis Pengurusan Teknikal
TWG	Kumpulan Kerja Teknikal
UKM	Universiti Kebangsaan Malaysia
UMP	Universiti Malaysia Pahang
UMT	Universiti Malaysia Terengganu
UNIDO	*United Nations Industrial Development Organization*
UniKL	Universiti Kuala Lumpur
USM	Universiti Sains Malaysia
WG	*Working Group*
WML	*Wood Mycology Laboratory*
WTO	*World Trade Organization*

Abbreviations

10MP	10th Malaysia Plan
5S	Kaizen System (Quality Environment Practices of a Workplace)
ACB	Accreditation of Certification Bodies
ACCSQ	ASEAN Consultative Committee for Standards and Quality
APEC	Asia-Pacific Economic Cooperation
APHM	Association of Private Hospitals of Malaysia
APLAC	Asia Pacific Laboratory Accreditation Cooperation
ASEAN	Association of South East Asian Nations
BAB	Bangladesh Accreditation Board
CAB	Conformity Assessment Bodies
CB	Certification Bodies
CB Scheme	Scheme for Certification Bodies
CHEMITEL	Chemical & Microbiology Testing Laboratory
CMA	Compliance Monitoring Authority
CNAS	China National Accreditation Service for Conformity Assessment
COMCEC	Standing Committee for Economic and Commercial Cooperation of OIC
COP	Codes of Practice
COPOLCO	Committee on Consumer Policy
CSL	Competition, Standards and Liberalisation
EMS	Environmental Management System
EPU	Economic Planning Unit
ETP	Economic Transformation Programme
EU	European Union
FMC	Forest Management Certification
FRIM	Forest Research Institute Malaysia
FSMS	Food Safety Management Systems
FTA	Free Trade Agreement
GDP	Gross Domestic Product
GLP	Good Laboratory Practice
GMP	Good Manufacturing Practices
GRP	Good Regulatory Practice
HACCP	Hazard Analysis and Critical Control Point
HALFest	Halal Fiesta Malaysia
HKAS	Hong Kong Accreditation Service
IAF	International Accreditation Forum
ICCC	International Common Criteria Conference
ICUDBE	International Conference on Universal Design in Built Environment
IEC	International Electro-technical Commission
IECEE	Worldwide System for Conformity Testing and Certification of Electro-technical Equipment and Components

IECex	IEC Scheme for Certification to Standards relating to Equipment for Use in Explosive Atmosphere
IIUM	International Islamic University Malaysia
IKM	*Institut Kimia Malaysia*
ILAC	International Laboratory Accreditation Cooperation
IPHARM	Institutes for Pharmaceutical & Nutriceutical Malaysia
ISC	Industry Standards Committee
ISMS	Information Security Management Systems
ISO	International Organization for Standardization
JPPSM	*Jawatankuasa Penyelarasan Pelaksanaan Standard Mandatori*
KLCC	Kuala Lumpur Convention Centre
KLIIF	Kuala Lumpur International Islamic Festival
LAEP	Laboratory Accreditation Evaluation Panel
LID	Langkawi International Dialogue
MCM	Metrology Corporation Malaysia
MIBAS	Malaysia Inspection Bodies Accreditation Scheme
MIHAS	Malaysian International Halal Showcase
MITEC	Malaysia Institute of Industrial Technology
MJV	Mutual Joint Visit
MKA	*Makmal Kesihatan Awam*
MLA	Multilateral Recognition Arrangement
MOSTI	Ministry of Science, Technology and Innovation
MoU	Memorandum of Understanding
MPC	Malaysian Productivity Corporation
MRA	Mutual Recognition Arrangement
MS	Malaysian Standards
MSAC	Malaysian Standards and Accreditation Council
MSTH	Managing Malaysia Software Testing Hub
MTV	Malaysia-Thailand-Vietnam
MyENC	Malaysian Electro-technical National Committee
MyGLPC	Malaysian Good Laboratory Practice Committee
MyNAC	Malaysian National Accreditation Committee
MyNMTAC	Malaysian National Medical Testing Accreditation Committee
MyNSC	Malaysian National Standards Committee
MySTI-Expo	Malaysia Science Technology and Innovation Expo
NCCIE	National Committee of the CIE

Abbreviations *(continued)*

NDT	Non-Destructing Testing
NGO	Non-governmental Organisations
NKEA	National Key Economic Areas
OECD	Organisation for Economic Cooperation and Development
OIC	Organization for Islamic Conference
OSH	Occupational Safety and Health
PAC	Pacific Accreditation Cooperation
PC	Product Certification
PCS	Product Certification System
PT	Proficiency Testing
PTB	*Physikalisch-Technische Bundesanstalt*
PTP	Proficiency Testing Provider
PWTC	Putra World Trade Centre
QMS	Quality Management System
QSEL	Quality, Safety, Environment and Laboratory Informatics
R&D	Research and Development
RMP	Reference Material Producer
SAMM	Laboratory Accreditation Scheme of Malaysia
SC	Specific Criteria
SCQA	Standards Certification Quality Assurance
SCSC	Sub-Committee on Standards and Conformance

SIRIM	SIRIM Berhad
SMR	Standard Malaysian Rubber
SOFTEC	Software Testing Conference
SRI	Strategic Reform Initiatives
STI	Science, Technology and Innovation
STANDARDS MALAYSIA	Department of Standards Malaysia
STANDARDS USERS	Malaysian Association of Standards Users
STR	Specific Technical Requirement
STST	Software Testing Straight Talk
TBT	Technical Barriers to Trade
TC	Technical Committee
TMB	Technical Management Board
TWG	Technical Working Group
UKM	*Universiti Kebangsaan Malaysia*
UMP	*Universiti Malaysia Pahang*
UMT	*Universiti Malaysia Terengganu*
UNIDO	United Nations Industrial Development Organization
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