LAPORAN
TAHUNAN 2010
ANNUAL REPORT

# Innovative Partnerships

## Perkongsian Inovatif

MOSTI Kementerian Sains,Teknologi dan Inovasi Malaysia
*Ministry of Science, Technology and Innovation Malaysia*

STANDARDS MALAYSIA Jabatan Standard Malaysia
*Department of Standards Malaysia*

The term **INNOVATIVE PARTNERSHIPS** is all about governments, organisations and people working together for long-term mutual gains so that collectively, they help bring about global harmony and prosperity. It is also about sharing experiences and wisdom, adopting a "prosper-thy-neighbour" philosophy and guided by universal value, trust and understanding in all dealings with our business partners. Developing innovative partnerships is a strategy focusing on the needs of the people concerned to us, specifically users of our standards and accreditation services, and those working in and around us, including stakeholders, regulators and people in government.

The approach of fostering innovative partnerships further strengthens our efforts to realise STANDARD MALAYSIA's 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.

# CONTENTS


**PLATFORM FOR INNOVATIVE PARTNERSHIPS** 4

- Minister of Science, Technology and Innovation
- Chairman, Malaysian Standards and Accreditation Council

**STANDARDS MALAYSIA: INNOVATIVE INDUSTRY PARTNER** 6

- Organisation Chart
- Leadership at Ministerial and Council Levels
- Leadership at Management Level

**INNOVATION THROUGH STRATEGIC ALLIANCES** 12

Operational Report by
Director General of STANDARDS MALAYSIA

- Performance Highlights
- Moving Forward
- Snapshots: Promotional and Other Activities

**KEY INDICATORS** 29

- Performance Indicators 2010

**ABBREVIATIONS** 53

# PLATFORM FOR INNOVATIVE PARTNERSHIPS

**The Ministry of Science, Technology and Innovation (MOSTI) is the platform on which policies for innovative partnerships are set and spelt out clearly as part of key initiatives to drive the advancement of Science, Technology and Innovation (ST&I) in Malaysia.**

MOSTI sets the policies and priorities as well as manages all aspects of the advancement of ST&I in the country, including the areas of standards and accreditation, which are managed by STANDARDS MALAYSIA, an agency under MOSTI. STANDARDS MALAYSIA is the sole National Standards and Accreditation Body responsible for overseeing standards and accreditation activities in Malaysia under the direction of MOSTI and the guidance by the Malaysian Standards and Accreditation Council (MSAC). The move by STANDARDS MALAYSIA to establish innovative partnerships receives the endorsement of our two key leaders whose support has been instrumental in achieving national standards and accreditation goals.

## MATCHING GOALS

The Minister of Science, Technology and Innovation, Y.B. Datuk Seri Dr. Maximus Johnity Ongkili leads MOSTI and all its agencies in the march towards bringing greater development for the country through ST&I. While working together internally is crucial to achieve this goal, working with external parties is equally important. Each entity within the ministry has its own external partners that facilitate the implementation of plans and strategies. These partners comprise those in both the public and private sectors, including non-governmental organisations (NGOs) and trade bodies whose goals match those of the ministry and its agencies. This matching of goals forms the foundation on which innovative partnerships are built and nurtured. Following the way paved by MOSTI, STANDARDS MALAYSIA has also been able to form partnerships to achieve the common goals of developing and promoting Malaysian standards and accreditation practices. Both standards and accreditation are effective tools to improve the marketability of Malaysian products and services, which is achievable by taking innovative approaches with the co-operation of the industry, and endorsed by the minister.

Minister of Science, Technology and Innovation
**Y.B. Datuk Seri Dr. Maximus Johnity Ongkili**

## STRENGTHENING PARTNERSHIP

Y.Bhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali leads MSAC as its Chairman who has consistently been supportive of the initiatives taken by STANDARDS MALAYSIA to form innovative partnerships with all stakeholders, including regulators and enforcement agencies, which have the common goals to advance standards and accreditation in the country. MSAC recognises the importance of forming and strengthening relationships with other government bodies, industry players, trade associations, consumer groups and NGOs whose inputs are vital in standardisation and accreditation activities. By maintaining regular contacts and building on the partnerships with these various groups over the years have helped STANDARDS MALAYSIA to implement various strategies, review priorities and take more innovative steps for the benefit of all parties.

Chairman, Malaysian Standards and Accreditation Council
**Y. Bhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali**

## A WORD OF THANKS

We would like to thank the Minister of Science, Technology and Innovation and the MSAC Chairman as well as all members of the MSAC for having given us the support and guidance that enable us to function smoothly and effectively. Our appreciation also goes to everyone in MOSTI, MSAC and STANDARDS MALAYSIA at all levels, and not forgetting all our external partners (organisations and individuals, including many volunteers, such as accreditation assessors), whose support and involvement have been vital in developing and promoting standards and accreditation.

# STANDARDS MALAYSIA: INNOVATIVE INDUSTRY PARTNER

As the sole National Standards and Accreditation Body, STANDARDS MALAYSIA has long been the partner to industry in helping to develop a more innovative and competitive Malaysia. Since our establishment on August 28, 1996, we have set the infrastructure to advance and promote standards and accreditation in Malaysia at both the national and international levels. Being a member of the International Organization for Standardization (ISO), the International Electro-technical Commission (IEC), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC), STANDARDS MALAYSIA represents Malaysia in international standardisation and accreditation activities. Over the years, both standards and accreditation have progressed significantly, thanks to the various establishments, which have consistently discharged their responsibilities and duties diligently. These establishments come under the stewardship of MOSTI, as shown below:

## ORGANISATION CHART

**MINISTER OF SCIENCE, TECHNOLOGY AND INNOVATION MALAYSIA**

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

**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 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, 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 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 MALAYSIA (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 Malaysian Standards (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

**Y.B. Datuk Seri Dr. Maximus Johnity Ongkili**
Minister of Science, Technology and Innovation

**Y.Bhg. Dato' Madinah Mohamed**
Secretary General, Ministry of Science, Technology and Innovation

**Y.Bhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali**
Chairman, Malaysian Standards and Accreditation Council

## Members of MSAC

- Y.Bhg. Tan Sri Datuk Dr. Ahmad Tajuddin Ali
- Y.Bhg. Dato' Sharifah Zarah Syed Ahmad
- Y.Bhg. Dato' Ir. Hj. Yahaya Ahmad
- Y.Brs. En. Yogeeswaran a/l Kumaraguru
- Y.Bhg. Dato' Kamaruddin Ismail
- Y.Bhg. Dato' Wahab Hamid
- Mrs. Mahani Tan bt. Abdullah
- Dr. Ir. Shamsudin b. Hj. Ab. Latif
- Y.Bhg. Dato' Dr. Ir. Andy K H Seo
- Y.Bhg. Datuk Aishah Ahmad
- Y.Bhg. Datuk Dr. Soon Ting Kueh
- Y.Bhg. Ir. Dr. Abdul Majid b. Dato' Abu Kassim
- Y.Bhg. Datuk Marimuthu Nadason
- Y.Bhg. Dato' Ir. Dr. Johari b. Basri
- Y.Bhg. Tan Sri Dato' Mohd. Ramli Khusairi

## Co-opted Members

Y.Bhg. Datuk Dr. Noor Hisham bin Abdullah
**MyNMTAC**

Y.Bhg. Datuk Ir. Mohd. Anas bin Hj. Mohd. Nor (departed on November 15, 2010)
- see obituary page 50
**MyENC Chairman**

Ir. Tuan Hj. Mah Lok Abdullah
**MyNAC Chairman**

Mr. Edmund Wong Hock Vui, Sabah

Mr. Edward Nyalang Banda, Sarawak

# Leadership at MANAGEMENT LEVEL

1 **Fadilah Baharin**
*Director General*
*fadilah@standardsmalaysia.gov.my*

2 **Ridzwan Kasim**
*Senior Director (Policy and Standards)*
*ridzwan@standardsmalaysia.gov.my*

3 **Shaharul Sadri Alwi**
*Director of Accreditation*
*shaharul@standardsmalaysia.gov.my*

4 **Rafaiq Bakri Zakaria**
*Director of Strategic Management*
*rafaiq@standardsmalaysia.gov.my*

5 **Lim Chai Chong**
*Director of Management Services*
*cclim@standardsmalaysia.gov.my*

# Policy and Standards Division

*From Left to right:*
Murshida, Mohd Azrul, Noraiza, Feris, Hussalmizzar, Ridzwan, Ahmad Razif, Mohd Shafiq, Mohd Fahmi, Sharifah Azlinda, Fakheezah and Nurul Shafira.

# Accreditation Division

*From Left to right:*
Mazlianum, Rahimah, Nurul Nadiah, Rosnieh, Shaharul, Fatimah, Ainol Azizul, Khairiyah, Roslan and Norsitah.

*From Left to right:*
Thamilarasi, Nik Nazira, Norhaliza, Roslee, Mahadir and Benardos.

*From Left to right:*
Mariam, Wong Fei Ting, Fariza, Rohasmizah, Siti Norehan, Siti Rohaya and Hafanizam.

# Strategic Management Section

*From Left to right:*
Maggery, Mohd Azwan, Mazleen, Rafaiq, Mazura, Faiz, Maliza and Musah.

# Administration Division

*From Left to right:*
Faiza, Wong Seow Kim, Syarafinas, Hanidah, Zainab, Kamaruddin, Yusof, Lim Chai Chong, Omar, Ghazali, Nabila, Norwanis, Fadilah, Roslina and Noramirah.

# INNOVATION THROUGH STRATEGIC ALLIANCES

# Operational Report by Director General of STANDARDS MALAYSIA

*"Our national role is to protect the people towards safety, health and environment. Our international role is to help facilitate our country's trade. Both roles require innovative approaches and partners both within and outside our organisation, to enable us to achieve our goals."*

**Fadilah Baharin**
*Director General*

# PERFORMANCE HIGHLIGHTS

## Establishing Innovative Partnerships

Part of the measures taken by STANDARDS MALAYSIA to implement our plans and strategies is by establishing strategic alliances with many parties, such as regulators, enforcement agencies and various public and private sector organisations as well as individuals. In 2010, we continued to work with key players and further strengthened the relationships by forming partnerships that allowed us to take innovative approaches to develop and promote standards and accreditation further. Strategic partners both in the country and overseas were identified to work together with us in order to achieve common goals. In so far as Malaysia is concerned, all our efforts are for the benefit of the rakyat, the industry and the country as a whole. Among some of our partners in 2010 are:

### Partners in Malaysia

**Petronas:** To promote Malaysia's participation in the IEC/Technical Committee (TC) 31 – Equipment for Use in Explosive Atmosphere, under the IEC Scheme for Certification to Standards Relating to Equipment for Use in Explosive Atmosphere (IECEx).

**The Electrical and Electronics Association of Malaysia (TEEAM):** To manage the National Committee of the CIE (NCCIE) and to promote Malaysia's participation in the International Commission on Illumination (CIE).

**Malaysian Association of Standards Users (Standards Users):** To undertake education and consumer activities by educating consumers on the importance of various standards through:

General outreach programmes using approaches to sensitise the general public on the roles of STANDARDS MALAYSIA. These include distribution of brochures, media publicity and development of position papers on issues related to safety standards.

- Focus group outreach programmes targeted at secondary school students and students from Institutes of Higher Learning. Workshops are also organised to promote the application of knowledge on standards for safety of products and services in everyday life.
- Monitoring of developments in other regions and countries to identify unsafe products, accidents and incidents to prompt consumers and relevant agencies in a timely manner to ensure unsafe products are not marketed to Malaysian consumers.
- Participation in standards development at regional and international levels to ensure consumer concerns with regards to performance and safety are considered in the course of drafting and publishing national standards.
- Undertaking of comparative review and product testing to improve safety of consumers and the environment.

**Muslim Consumers Association of Malaysia (PPIM):** To implement halal standards promotional activities related to the Islamic way of life.

The initiative to develop standards related to the Islamic way of life is a continuation of PPIM's active involvement in standards development activities, including the development of Halal Food Standard, Quality Management Systems from the Islamic Perspectives, as well as the standards for Halal Cosmetics under the Industry Standards Committee on Halal (ISC I).

In Islamic standards development, PPIM collaborates with PPIM Research Institute of Standards in Islam (RISIS). Standards proposed for development are essential for the Islamic institution itself as well as for industrial use and all the global community encompassing

all boundaries. Since 2008 till today, PPIM has successfully developed the Halallan-Toyyiban Assurance Standard Pipeline. This standard covers the operation and activities concerning halal products from the source to each stage of distribution, warehousing, transportation and retail (logistics).

**Malaysian Islamic Chamber of Commerce (DPIM):** To implement halal standards promotional activities. STANDARDS MALAYSIA with the co-operation of DPIM organised a seminar on halal standard for food, cosmetics, logistics, and Quality Management System (QMS). In 2010, the seminar was held in two states, namely Terengganu and Pahang.

**CyberSecurity Malaysia (CyberSecurity):** To collaborate on the implementation of Information Security Management Systems (ISMS). All government buildings' critical infrastructure including the setting of ISMS must be certified by CyberSecurity and SIRIM.

**Institution of Engineers Malaysia (IEM):** The impending withdrawal of the British Standards (BS) code in 2010 will have far reaching impact to the Malaysian steel construction industry. The IEM-Standards Writing Organisation (SWO) Technical Committee was formed to look into the adoption of the Eurocode for the local steel industry. The TC committee has completed the main provisions of Eurocode EN 1993-1-1 and the Malaysian version, namely MS EN1993-1-1, has been released for public comments. STANDARDS MALAYSIA collaborated with IEM to create awareness on the MS EN 1993-1-1. A seminar held on February 24, 2010 gave an overview of Eurocodes 1990, 1991 and 1993, which are the main Eurocodes required for steel building structures.

**Malaysian Institute of Chemistry (IKM):** To provide a vehicle for STANDARDS MALAYSIA in seeking co-operation with IKM to conduct capacity building initiatives for its officers, assessors and stakeholders as well as potential and accredited laboratories under its accreditation schemes as part of the implementation of continuous improvement initiatives as required by STANDARDS MALAYSIA. Specifically, co-operation from IKM is sought in providing training and all related assistance deemed necessary. In 2010, one programme was organised, namely IKM Assessors and SAMM Laboratories Forum, which was held from April 9-11, 2010 in Genting Highlands.

**International Islamic University Malaysia (IIUM):** STANDARDS MALAYSIA also collaborated with Kuliyyah of Architecture and Environmental Design (KAED), KAED Universal Design Unit (KUDU), IIUM in these programmes: The Educational Toy Design Competition for Early Childhood and a Seminar on the Application of Malaysian Standards for Sustainable Built Environment. These programmes were also supported by the Malaysia Design Council (MRM) and Innovation Foundation Malaysia (YIM), MOSTI.

The aim of the Educational Toy Design Competition for Early Childhood Competition was to provide an excellent opportunity for designers to enhance their creativity, ideas and innovations in designing universal educational toy products for early childhood with the application of Malaysian Standards in mind. It was also hoped that by applying MS in the product, appropriate technology, new ideas and inventions by the participants from local manufacturers, professional designers and university students, the competition will be able to generate interesting, good, safe and educationally relevant toys to be utilised for early childhood educational development.

As for the Seminar on the Application of Malaysian Standards for Sustainable Built Environment, it was organised to promote MS for Built Environment which relates to The Green Building Index, Industrial Building System (IBS), and Barrier Free Architecture or commonly known as Universal Design, to the public. This seminar also served as a platform to identify the progress of the application of MS in Built Environment covering various areas, such as architecture, planning, urban design and engineering.

- **Ministry of International Trade and Industry (MITI):** STANDARDS MALAYSIA supports MITI in Committee on Mandatory Industrial Standards (CMIS), Free Trade Agreement (FTA) Negotiations, Association of South East Asian Nations (ASEAN) Senior Economic Official Meetings (SEOM) through ASEAN Consultative Committee for Standards and Quality (ACCSQ), Senior Official Meetings (SOM) through Asia-Pacific Economic Cooperation (APEC) Sub-Committee on Standards and Conformance (SCSC), Economic and Commercial Cooperation of the Organisation of Islamic Conference (COMCEC) – Organisation of Islamic Conference (OIC).

- **Malaysia External Trade Development Corporation (MATRADE):** A training session was conducted for MATRADE officers on Standards Development Infrastructure; August 9, 2010.

- **Wisma Putra:** STANDARDS MALAYSIA is one of the agencies that organises training for the Malaysian Technical Co-operation Programme (MTCP) under the purview of Wisma Putra.

- **SIRIM Berhad:** To co-ordinate the development of MS and participation in international standardisation activities at technical level.

- **Department of Islamic Development Malaysia (JAKIM):** STANDARDS MALAYSIA supports JAKIM by being one of the committee members in drafting halal protocol. At the same time, JAKIM supports STANDARDS MALAYSIA by assisting in the MS publicity on Halal. JAKIM also provides speakers for STANDARDS MALAYSIA's seminars in halal related issues.

Puan Fadilah Baharin, Director General of STANDARDS MALAYSIA (third from right) together with 'Strategic Team' at Malaysian International Halal Showcase (MIHAS) 2010, MATRADE Convention Centre, Kuala Lumpur.

## International Partners

**ISO:** To continue standards development work in various fields, in particular the development of Standards for Social Responsibility (SR) – ISO 26000 – Guidance on Social Responsibility meant to guide SR practices. STANDARDS MALAYSIA partnered with ISO directly to organise ISO-sponsored events such as seminars on SR.

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

MoU contents:

- Participation of experts/assessors from the Department of Standards Malaysia and JAS-ANZ in joint assessment teams.
- Exchange and development of technical information relevant to the accreditation of conformity assessment bodies providing certification and inspection services.
- Accreditation activities within the framework, aspirations and objectives of the Pacific Accreditation Cooperation (PAC), IAF, Asia Pacific Laboratory Accreditation Cooperation (APLAC) and ILAC.

**MoU with National Association of Testing Authorities (NATA) Australia, in progress since 2010**

MoU contents:

- To encourage and promote co-operation in the fields of laboratory accreditation, proficiency testing, exchange of technical cooperation, training and other accreditation activities.

**MoU with Saudi Standards, Metrology and Quality Organization (SASO) – in progress since 2010**

MoU contents:

- Promotion of mutual understanding of the development of standards in both countries.
- Exchange of information and data on different fields and activities of standardisation.
- Exchange of information and experiences on preparation, adoption and implementation of standards and technical regulations.

WORLD HALAL FORUM 2010 State of the Halal Industry: Malaysia

- Organisation of seminars, conferences and symposia.
- Exchange of visits and training of technical experts.

**MoU with Egyptian Organization for Standardization and Quality (EOS) – in progress since 2010**

MoU contents:

- Promotion of mutual understanding of the development of standards in both countries, and to timely notify the other Party in respect of standards that may have significant influence on the trade.
- Exchange of information and experiences on standardisation, upon request.
- Exchange of information and experiences on preparation, adoption and implementation of standards and technical regulations.
- Exchange of information and experiences on Halal Standards and Certificates.

**MoU with Jordan Institution For Standards and Metrology (JISM) – in progress since 2010**

MoU contents:

- Promotion of mutual understanding of the development of standards in both countries.
- Exchange of information and experiences on standardisation and Halal Standards and Certificates.
- Exchange visit and execution of research projects and studies on standards.
- Organisation of seminars and working together in capacity building for accreditation system.

**MoU with Syrian Arab Organization for Standardization and Metrology (SASMO) – in progress since 2010**

MoU contents:

- Exchange information and experiences on standardisation including on preparation, adoption and implementation of standards and technical regulations.
- Exchange visit and execution of research projects and studies on standards.
- Organisation of seminars and symposia in fields of mutual interests.

**MoU with Emirates Authority for Standardization and Metrology (ESMA) – in progress since 2009**

MoU contents:

- Promotion of mutual understanding of the development of standards in both countries.
- Exchange of information and experiences on standardisation, such as national standards catalogues, textbooks and other training materials on standardisation.

The CPTM Meeting Ltd Annual General Meeting, December 14-15, 2010, London.

- Exchange of information and experiences on preparation, adoption and implementation of standards and technical regulations.
- Exchange of visits of academic and technical experts.
- Execution of research projects and studies on standards.

Mr. Ridzwan Kasim, Senior Director (Policy and Standards) STANDARDS MALAYSIA (second from left) and other participants at the 35th ACCSQ meeting, August 3-6, 2010, Bangkok.

## Inclusion of Standards and Accreditation in National Key Results Areas

The New Economic Model under the 10th Malaysia Plan (10MP – 2011-2015) has included the national policy for best practices encompassing standards and accreditation. This is an important milestone for STANDARDS MALAYSIA, which has been given the mandate to develop and promote standards and accreditation practices particularly for adoption by industry players. We have contributed significantly to establish Malaysia as a standard-setter in niche areas, such as halal products. Compliance with standards could be used to substitute tariffs for the purpose of import control that would be consistent with the global move towards market liberalisation. The National Key Results Areas (NKRAs) identify, among others, the benefits of standards within Malaysia's value chain (from product procurement and manufacturing to supply and customer service); adoption of all 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 MS into international standards; and administration of standards compliance.

## Playing Essential Role in Trade

STANDARDS MALAYSIA plays an essential role in trade between Malaysia and other economies by establishing strong international agreements on testing, calibration, certification and inspection. These agreements yield important Mutual Recognition Arrangements (MRAs) between accreditation bodies around the world, giving Malaysian exports improved access to international markets. All signatories to MRAs are accreditation bodies that accept the validity of each other's accredited test and inspection reports. Applicants who wish to join MRAs must submit themselves to rigorous peer assessment by the existing signatories and undergo full periodic reassessment. MRAs allow exporters faster entry to overseas markets at lower cost because shipment does not need re-testing or post-export inspections on arrival at their destination. For Malaysian exporters, this means lower overheads, and for Malaysian consumers, lower import prices. The most notable MRAs are APLAC and ILAC. The APLAC and ILAC MRAs also help economies to meet World Trade Organisation (WTO) obligations, minimise technical barriers and facilitate exports and imports in many countries. STANDARDS MALAYSIA has successfully maintained our signatory status for the testing and calibration laboratories as well as medical laboratory testing accreditation under APLAC. This means that STANDARDS MALAYSIA's accreditation scheme is recognised by all 33 signatories of APLAC MRA, and consequently by all 71 signatories of ILAC MRA. Acceptance by the APLAC MRA Council was the culmination of a significant amount of time and effort put in by STANDARDS MALAYSIA, resulting in such a positive outcome of the MRA evaluation, which we underwent from June 21 to 25, 2010.

In addition, STANDARDS MALAYSIA also continues to maintain signatory status in PAC/IAF Multilateral Recognition Arrangement (MLA) for three programmes under Accreditation of Certification Bodies (ACB) Scheme, namely Quality Management Systems (QMS), Environmental Management Systems (EMS) and the latest is Product Certification (PC) Programme. STANDARDS MALAYSIA will continue to work and strive harder to be a signatory to other programmes in the future.

STANDARDS MALAYSIA is also recognised by the Malaysian Government as the national organisation for Economic Cooperation and Development (OECD) GLP Monitoring Authority, which allows test data from non-clinical health and environmental safety studies on chemicals to be accepted by international regulatory bodies for many trading partners of Malaysia.

## Helping to Build Linkages for Export Success

Following the successful hosting of the regional consultation on "Quality Management: Linking Trade Promotions Organisations (TPOs) and National Standards Body (NSB) for Export Success" held in Malaysia in 2009 with the collaboration of ISO and International Trade Centre (ITC), STANDARDS MALAYSIA continued with efforts to build linkages that facilitated the country's export. These encompassed all standardisation and accreditation activities including conformity assessment. Standardisation spells out the standard requirements that a product, process or service should comply with and these form the basis of technical regulation, contractual obligations or market expectations. Accreditation includes peer assessment to facilitate international recognition of claims of conformity while conformity assessment covers the services necessary to provide evidence that a supplier, product or service meets requirements, such as during testing, inspection and certification. All these activities help ensure the successful acceptance of Malaysian products and services in the global market.

## Enhancing Market Access for Technology Management

STANDARDS MALAYSIA proactively pursued the initiatives to achieve better market access by working together with the Commonwealth Partnership for Technology Management (CPTM). These involve innovative partnership programmes which are expected to enhance the co-operative approaches at national, regional and international levels to implement national strategies for quality infrastructure and to promote at the highest level of Government and business, an application of innovative partnership approach of dealing with inter-dependencies and inter-operability for achieving sustainability and market access through quality and standards.

## Involvement in Free Trade Agreements Negotiations

STANDARDS MALAYSIA continued to play major role in bilateral and multilateral negotiations for FTAs, specifically for the Technical Barriers to Trade (TBT) chapter. In 2010, FTA negotiations were conducted between Malaysia-Australia, Malaysia-India,

Malaysia-European Union (EU) and Malaysia-Eight other countries in the Trans Pacific Partnership (TPP) as well as between ASEAN and China.

## Promoting Compliance to TBT Agreement

STANDARDS MALAYSIA intensified efforts to promote and create awareness among regulators on compliance to WTO TBT agreement through Good Regulatory Practice (GRP) workshops. The regulators were receptive to the concept of implementing GRP.

## Continued 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 Users, which represent STANDARDS MALAYSIA at the Chairs Group Meeting of ISO Committee on Consumer Policy (COPOLCO) and the co-convener of the ISO COPOLCO Working Group (WG) on Product Safety. Through STANDARDS MALAYSIA, Standards Users also have become a member of the Integrated Drafting Task Force (IDTF) of the ISO WG responsible for developing ISO 26000 for SR.

STANDARDS MALAYSIA has also successfully increased our participation in ISO and IEC TCs as both "P" (Participating) member and "O" (Ordinary) member. These memberships allow us to remain active internationally and at the same time advance and protect the nation's interest in the different standards development work.

In addition, STANDARDS MALAYSIA continued to represent Malaysia by maintaining appointments as signatories to various MRAs involving the following international standardisation and accreditation bodies, with whom we work very closely using our innovative partnerships approach:

**Asia Pacific Laboratory Accreditation Cooperation** (APLAC – a regional co-operative body at the Asia Pacific level with memberships comprising of accreditation bodies to discuss matters related to laboratory accreditation and inspection bodies): Malaysia, through STANDARDS MALAYSIA has been accepted into the APLAC MRA in the fields of testing (including medical testing) and calibration.

**International Laboratory Accreditation Cooperation** (ILAC – a co-operative body at the international level with memberships comprising of accreditation bodies to discuss matters related to laboratory accreditation and inspection bodies): Malaysia, also through STANDARDS MALAYSIA has been accepted into the ILAC MRA in the fields of testing (including medical testing) and calibration.

**Pacific Accreditation Cooperation** (PAC – a co-operative body at the Asia Pacifc level with memberships comprising of accreditation bodies to discuss matters related to accrediation of certification bodies): STANDARDS MALAYSIA plays crucial role in maintaining Malaysia as the PAC MLA signatories for three programmes, namely QMS, EMS and PC programme. Certification Bodies (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 – 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.

Forum with Certification Bodies, July 26, 2010 in Putrajaya.

## Meeting Requirements for Accreditation Services

STANDARDS MALAYSIA continued to ensure that the existing accreditations comply with relevant requirements under the following schemes:

- **Laboratories 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 standard.
- **Accreditation of Certification Bodies (ACB) Scheme:** STANDARDS MALAYSIA uses this scheme to assess and accredit CBs in compliance with relevant international standard as competent when providing their certification activities.
- **Malaysia Inspection Bodies Accreditation Scheme (MIBAS):** Through this scheme, inspection bodies accedited by STANDARDS MALAYSIA proved that inspection activities carried out by them meet the highest quality standards.

## Progress in Accreditation Services

In 2010, significant progress was made for the following:

### Medical Testing

The number of laboratories accredited increased from 15 last year to 19 in 2010. These include three university laboratories, namely Advance Diagnostic Laboratory, Advanced Medical & Dental Institute (AMDI), Universiti Sains Malaysia (USM) in Penang; Pathology Laboratories USM in Kelantan; and Universiti Kebangsaan Malaysia Medical Centre (PPUKM), Cheras, Kuala Lumpur and two private laboratories such as Gribbles Pathology (M) Sdn Bhd and Clinipath (M) Sdn Bhd.

A total of 18 applicant laboratories are in various stages of application process. Twelve trainee technical (Medical Testing) assessors attended the MS ISO 15189 and Accreditation Process Workshop conducted from November 25 to 26, 2010. The workshop included explanation of the standard, assessor appointment and accreditation process. For medical testing accreditation, SAMM is offering accreditation for eight disciplines: Cytopathology, Histopathology, Chemical Pathology, Haematology, Medical Microbiology, Virology, Assisted Reproductive Technology and Cytogenetics. All the relevant laboratories are required to comply with the Specific Technical Requirement (STR) documents under SAMM. The Medical Testing unit is also in the process of reviewing the relevant accreditation documents i.e. Specific Criteria (SC2) and Specific Technical Requirement Documents (STR 2.1 & STR 2.3).

### GLP Compliance Programme (GLP CP)

Since the launching of the programme in July 2009, STANDARDS MALAYSIA received six applications in 2010 from test facilities. Five Pre-Inspections and two Inspections were conducted on the applicant test facilities. In September 2010, two test facilities, namely Acumen Scientific Sdn Bhd, Prai and Sumitomo Chemical Enviro-Agro Asia Pasific Sdn Bhd, Seremban were recognised as the pioneer test facilities in Malaysia that complied with OECD GLP.

Guidance for Handling of Test System (GD1) was drafted by the Technical Working Group (TWG) 39. This document was presented to the Malaysian Good Laboratory Practice Committee (MyGLPC) on August 9, 2010 and a briefing session to the potential test facilities was held on November 4, 2010. Some amendments were proposed by the members in order to improve the contents.

STANDARDS MALAYSIA also attended the annual Working Group on GLP meeting in France. During the year, STANDARDS MALAYSIA GLP Unit was invited to present a knowledge-sharing workshop on the Malaysian OECD GLP CP organised by Taiwan Accreditation Foundation (TAF), Chinese Taipei, in collaboration with US Enviromental Protection Agency (USEPA), United States of America.

### Proficiency Testing (PT) Programme

National PT Programme was organised and completed for these sectors: Electrical (two programmes), Temperature (two programmes) and Mechanical (three programmes). STANDARDS MALAYSIA also organised and completed two APLAC PT programme, which was participated by 21 laboratories for APLAC M023 (Humidity) and 33 laboratories for APLAC M025 (Pressure).

### PAC Peer Evaluation under ACB Scheme

PAC peer evaluation was carried out during which Mr. Lai Seng Chiang was appointed as a team member for Singapore Accreditation

Experience Sharing Workshop on GLP co-operation between TAF and USEPA hosted by Taiwan Accreditation Foundation (TAF) in Taipei, Taiwan, November 11-12, 2010.

Council (SAC), Singapore. Ir Boey Hor Meng was appointed as lead peer evaluater in Hong Kong. He was also involved in peer review evaluation report (off site) in Japan.

### New Accreditation Programmes ACB Scheme

Two new accreditation programmes were developed:

- **Quality Environment Practices (5S):** STANDARDS MALAYSIA continued with the process of developing an accreditation programme on 5S. The 5S principles focus on the environment of a workplace that should be conducive to workers.

- **Oil Palm Supply Chain Management Systems:** This will be a new accreditation programme to provide guidance on maintaining food safety and quality along the oil palm supply chain and also to provide practical guidance and advice on how to achieve the standards required for the protection of the environment and to achieve social equity and profitability.

## MS Development and Promotion

STANDARDS MALAYSIA continued to partner with industry players to develop market-driven MS, which contributed towards the acceptance of Malaysian products and services for the global market. In 2010, a total of 678 MS were developed, which was an achievement of 271% over the target of developing 250 MS for the year. The MS developed include 455 new MS and 223 revised MS.

Other significant progress in MS development and promotion in 2010 are:

### MS for Social Responsibility

The Industry Standards Committee under STANDARDS MALAYSIA has looked into the request to develop the MS for SR, which would be aligned with the ISO 26000 – Guidance on Social Responsibility introduced by ISO in 2010. This standard covers the core subjects that SR should address, such as organisational governance; human rights; labour practices; the environment; fair operating practices; consumer issues; and community involvement and development. STANDARDS MALAYSIA actively participated in many international meetings related to SR as part of the work to develop this MS.

### MS for Halal Industry

STANDARDS MALAYSIA has been in the forefront of developing international standards for the halal industry. On June 23, 2010, two new standards for Cosmetics (MS 2200: 2008) and Logistics

The Honourable Prime Minister together with the Minister of MOSTI and Minister of MITI during the launching of Standards for Halal Cosmetics and Logistics, June 23, 2010 at MATRADE Convention Centre, Kuala Lumpur.

(MS 2400: 2010) were launched by the Prime Minister, Y.A.B Dato' Sri Mohd. Najib bin Tun Haji Abdul Razak at the Matrade Convention Centre, Kuala Lumpur. The new Halal Logistics Standards is the first of its kind ever developed. It addresses halal standards in the full supply chain involving logistics. Another significant progress was the adoption of MS 1500: 2009 – Halal Food – Production, Preparation, Handling and Storage – General Guidelines (Second Revision) by Kyrgyz Republic while a certification body in India adopted all our MS halal standards. The halal initiatives are in line with the mission of STANDARDS MALAYSIA to help push the Malaysian Government's move to go global. Through careful planning and strategising, STANDARDS MALAYSIA has successfully developed internationally recognised halal standards comprising guidelines and practices to help the country deliver globally accepted Malaysian products and services. In this respect, STANDARDS MALAYSIA has identified potential collaborations with emerging economies such as China, India, Latin Americas and African regions to further pursue the Government's agenda of making Malaysia the halal hub.

## Amending Standards of Malaysia Act 1996 (Act 549)

In 2010, the amendment of Standards of Malaysia Act 1996 reached the final stage. Discussions were held with 11 ministries to explain the rationale for the changes as well as to obtain their feedback and ideas.

## Completion of Study Concerning Conformity Assessment

In 2010, STANDARDS MALAYSIA completed a study on Guide to Selection and Use of Conformity Assessment Procedures. This guide is aimed at assisting regulatory bodies in the selection of appropriate conformity assessment procedures so that these will not create unnecessary obstacles to trade while achieving the legitimate regulatory objectives.

## Human Capital Development

STANDARDS MALAYSIA was given the mandate and allocation in 2010 to employ staff from within the Government. This opened up avenues for us to engage qualified people especially to represent our organisation in international meetings, hence strengthening our participation. It also allowed us to expand our network and establish more innovative partnerships to help push the country's development agenda.

Efforts to enhance the capacity and capability of our staff continued in 2010 with many of our staff members taking part in numerous training programmes, meetings, seminars and other events relevant to standardisation and accreditation both locally and internationally.

## Recognising the Vital Role of Assessors

In the accreditation field, STANDARDS MALAYSIA relies on the specialised knowledge and experience of its volunteer assessors. Without their assistance, Malaysia's national accreditation infrastructure and the resultant assurance that our community gains from them would be diminished. These assessors work closely with staff of STANDARDS MALAYSIA during the assessment of facilities, providing a vital technical review, ensuring confidence in competence. They also play a critical role through active participation in STANDARDS MALAYSIA's Evaluation Panels and Committees, which oversee various accreditation programmes and fields, as well as providing administrative, technical and strategic advice to STANDARDS MALAYSIA on accreditation matters. Many assessors find that their work for STANDARDS MALAYSIA benefits both themselves and their employer. By volunteering, assessors are putting something back into their profession, improving the accreditation system and keeping STANDARDS MALAYSIA's accreditation model vital and alive.

## Organisational Management Performance

STANDARDS MALAYSIA has three categories of staff: top management, managerial and professional group as well as support group. The position at the top management level was filled 100% while we achieved 63% for the managerial and professional group and 80% for the support group. Total positions in STANDARDS MALAYSIA have increased to 108 since the Public Services Department approved the organisation's restructuring beginning 2010.

In financial management, STANDARDS MALAYSIA continued to perform well in 2010. Operational expenditure amounted to RM15,382,150.34 or 99.45% of the revised allocation of RM15,493,961.34. The expenditure was incurred for emolument, services, assets and grants. As for development expenditure, RM9,212,606.25 or 99.98% of the total allocation of RM9,214,300.00 was incurred for development of standards, proficiency testing for calibration under the SAMM scheme and upgrading the organisation's Information Technology infrastructure.

Total revenue collected in 2010 amounted to RM2,583,619.57 from fees for accreditation scheme, processing fees, sales of documents and miscellaneous items.

## MOVING FOWARD

As we move towards the future, we will focus on implementing all strategies which were clearly spelt out in our Strategic Plan 2011-2015 in line with the Government's 10MP. We will mobilise everyone in the organisation to realise STANDARDS MALAYSIA's vision and mission as well as all our development and promotional activities, which are aligned to Malaysia's Economic Transformation Plan (ETP), 10MP and the New Economic Model (NEM).

This is a period of transition – from the 9MP to the 10MP – and STANDARDS MALAYSIA has been given the task to assume bigger roles since standards and accreditation have been recognised by the Malaysian Government as a policy measure under NKRAs. We have been asked by MITI to be more involved in facilitating trade requirements for FTA negotiations. This will further boost our initiative to become a major player in standardisation and accreditation at both the national and international levels.

With the trade liberalisation initiatives taken by the Government, the industry has proposed for more standards to be made mandatory to prevent the influx of sub-standard products into the country. This has resulted in the development and revision of more MS by STANDARDS MALAYSIA and made mandatory by relevant regulatory agencies.

As for accreditation, the industry outlook is also bright with increased demand for testing services, especially for food testing conducted by private laboratories. Malaysia's testing and certification industry provides testing and inspection services for consumer products manufactured in the country, as well as certification services for such products and for the relevant quality management systems. Given a robust accreditation system and a good international reputation, Malaysia through STANDARDS MALAYSIA is well positioned to act as an independent third party to provide quality certification and product testing services for various enterprises to boost the confidence of overseas and local buyers.

Our other strategies for the future also include the amendment of the Standards of Malaysia Act 1996, to enable STANDARDS MALAYSIA to appoint more Standards Development Agency (SDA), which can accelerate the development of MS. In addition, we will continue to develop market-relevant MS as well as revise MS to be in tandem with current requirements. A study to be undertaken during the 10MP period on the use of MS will assist in setting the direction for the sectors to be developed. Engaging regulators to co-ordinate the implementation of MS as well as getting the relevant stakeholders, especially from the industry, professional bodies and NGOs to promote standardisation and accreditation activities will be carried out continuously. This will be pursued despite some budget constraint. However, the solutions lie in our ability to build linkages through innovative partnerships with local and international organisations, as well as the utilisation of industry trust fund and the promotion of double tax deduction incentive among participating companies.

In keeping pace with rapid industrialisation in the country, STANDARDS MALAYSIA is also aggressively expanding the existing accreditation schemes. To cater to the expansion, STANDARDS MALAYSIA will continue to build the national infrastructure, capability and capacity to meet the increasing needs for accreditation involving testing/calibration laboratories and CBs. The strengthening of human resource capability and capacity within the national conformance infrastructure including efforts to enhance the competency of STANDARDS MALAYSIA's staff to serve as assessors are also crucial so as to have effective and efficient delivery of services related to accreditation. We will also be looking at increasing the budget for accreditation activities, particularly in engaging capable and credible staff to represent us at the international level. It is crucial for us to hold international meetings with potential international organisations for standards and conformity assessment purposes.

Whatever the challenges, we will continue to focus on our goals of driving standards and accreditation to help achieve the vision of a more developed Malaysia.

Moving Foward – some of STANDARDS MALAYSIA's staff members.

# SNAPSHOTS: PROMOTIONAL AND OTHER ACTIVITIES

As in previous years, the activities in 2010 were numerous. These include organising, hosting and attending meetings, seminars, workshops, conferences and negotiations during which STANDARDS MALAYSIA took opportunities to voice opinions, ideas and concerns as well as advanced Malaysia's interests. Some of the highlights for 2010 are:

The Secretariat Team of SAMM Laboratories Forum, July 19, 2010, Putrajaya.

Madam Fadilah Baharin, Director General of STANDARDS MALAYSIA during Malaysian Society for Quality in Health (MSQH) International Conference and Exhibitions, April 22-24, 2010, Kuala Lumpur.

YBhg Dato' Dr. Sharifah Zarah, Deputy Secretary General (Policy) of MOSTI attending The National Standards and Accreditation Awards 2010, October 28, 2010, Putrajaya.

*Hari Inovasi MOSTI* organised by STANDARDS MALAYSIA, February 18, 2010, Putrajaya International Convention Centre.

Programme with IIUM on Early Childhood Education and Application of MS for Toy Design, December 14, 2010.

Open Forum and Workshop on ISO 26000 Social Responsibility on December 14 - 16, 2010 at Sheraton Imperial Kuala Lumpur Hotel.

STANDARDS MALAYSIA's Team – 'The Road to Success' together with Mr. Ridzwan Kasim, Senior Director (Policy and Standards).

## Promotional Programmes Organised by STANDARDS MALAYSIA

- National Consultation Forum on Standards for Halal Logistics.
- Seminar on ISO 50001-Energy Management Systems Reduce Energy Use and Green House Gas (GHG) Emissions.
- Seminar on Energy Efficiency and Household Appliance.
- Seminar on Information Security.
- Institut Kimia Malaysia (IKM) Assessors and SAMM Laboratories Forum.
- Seminar on MS 825-Code of Practice for the Design of Road Lighting.
- Seminar on Cement Standards: The Way Forward.
- Seminar on Biometric - What, Why and How?
- One-Day Seminar on Adopting Eurocode for Structural Steel Design (EC3) in Malaysia.
- ISMS Implementation Workshop.
- Seminar on MS 1849 - Protection of Buildings Against Subterranean Termites - Codes of Practice (COP) for Prevention, Detection and Treatment of Infestation.
- Workshop on Early Childhood Education and Application of Malaysian Standards for Toy Design.
- Seminar on Fresh Agriculture Produce.
- Seminar on Equipment and System Depandability.
- Forum with Accreditationn Certification Bodies.
- Forum with SAMM Laboratories.
- National Standards Conference 2010.
- National Standards and Accreditation Award 2010.
- Seminar on Halal Standards (Food, QMS, Cosmetic).
- Seminar on Application of MS in the Built Environment and Product Design Industry.
- Open Forum and Workshop on Social Responsibility and ISO 26000.

## Participation in Exhibitions and Other Events

- 1Malaysia 1Halal by JAKIM.
- Exhibition in conjunction with National Conference on Accessibility & Universal Design, Implication for Public Transport and the Built Enviroment 2010 by UNDP.
- Exhibition in conjunction with MSQH International Conference and Exhibition, April 22-24, 2010 in Kuala Lumpur.
- World Islamic Economic Forum by MOSTI.
- *Karnival Malaysia Inovatif 2010* (Sabah, Terengganu, Sarawak, Johor, Melaka, Kuala Lumpur) by MOSTI.
- SMIDEX 2010 by Small and Medium Industries Development Corporation (SMIDEC).
- MIHAS 2010 by MATRADE.
- Malaysian International Food & Beverage Trade Fair. (MIFB) 2010 by Utusan Berhad.
- Bio Malaysia 2010 by Biotech Corp.

Halal India Pvt. Ltd. visit to STANDARDS MALAYSIA, October 25, 2010.

STANDARDS MALAYSIA participated in'Pameran Hari Kepenggunaan 2010', July 24-25, 2010 in Melaka.

The Deputy Minister of MOSTI, Y.B Tuan Hj. Fadillah Hj. Yusof officiated at The Smart Partnership Dialogue: Enhancing Business, Trade, Technology Through Quality Standards in Southern & East Africa, Caribbean, Mediterranean and South East Asia on June 14-15, 2010, Putrajaya.

National Standards Conference 2010, 21 October 2010.

MS ISO/IEC 17025:2005 Certificate Presentation by Director General of STANDARDS MALAYSIA, Puan Fadilah Baharin (third from right), to the Deputy Vice Chancellor for Research and Innovations Affairs, Universiti Kebangsaan Malaysia (UKM), Prof. Dr. Rahmah Mohamed, 9 December 2010.

En Shaharul Sadri Alwi, Director of Accreditation (centre), during the 16th APLAC General Assembly in Osaka, Japan on December 18, 2010.

STANDARDS MALAYSIA's booth at one of the exhibitions held in 2010.

## Regional and International Meetings Hosted

- ISO/JTC1/SC 27 – Information Technology (IT) Security Techniques.
- ISO/JTC1/SC37 – Biometrics.
- ISO/TC 229 – Nanotechnologies.
- ISO/TC206 – Fine Ceramics.
- ACCSQ WG1 – Standards and Mutual Recognition Arrangements.
- ACCSQ WG3 – Legal Metrology.

## Participation in Training Programmes

- Training on MTCP - Halal Standards and Conformance Infrastructure to OIC Countries.
- MLA Readiness Project in Food Safety Management Systems (FSMS).
- Training course on ISO/IEC 17011 and ISO/IEC Guide 65.
- GlobalGap training.
- Training on ISO/IEC 17021.
- Training course on Malaysian Criteria and Indicators for Forest Management Certification (Forest Plantation).
- Training course on MS ISO/IEC 17011.
- Training course on MS 1500: 2009 – Halal Food – Production, Preparation, Handling and Storage – General Guidelines (Second Revision).
- MS ISO 15189 and Accreditation Process Workshop.
- Workshop for new MIBAS assessors.
- PAC-Physikalisch-Technische Bundesanstalt (PTB) Training Course on organic agriculture for assessors of accreditation bodies.

## Other Activities

- December 6 - 10, 2010: APLAC Re-evaluation Announcement of STANDARDS MALAYSIA continuing the APLAC MRA signatory during the 16th APLAC General Assembly in Osaka, Japan on December 8, 2010.
- February 2 to 5, 2010: APLAC Peer Evaluation by Mr Shaharul Sadri Alwi who was appointed as the Lead Evaluator for Papua New Guinea Laboratory Accreditation Scheme (PNGLAS), Papua New Guinea.
- August 2 to 5, 2010: ILAC Internal Audit by Mr Shaharul Sadri Alwi who was appointed as the Internal Auditor for ILAC Secretariat in Sydney, Australia.
- MIBAS: Three inspection bodies were accredited.
- Assessor forums for MS ISO/IEC 17025 and MS ISO 15189 assessors; forum with SAMM laboratories.
- Documentation Review of the new applicants for Personnel Programme was conducted.
- Briefings on ISO/IEC G65 were given to Malaysian Timber Industry Board (MTIB).

STANDARDS MALAYSIA officer (centre) during the ISO Regional Workshop on SR, December 14, 2010, Kuala Lumpur.

# PETUNJUK UTAMA
**Petunjuk Prestasi**

# KEY INDICATORS
**Performance Indicators**

2010

# Petunjuk Prestasi 2010 / Performance Indicators 2010

## STANDARD / STANDARDS

**RAJAH 1 Jumlah MS yang Dibangunkan Mengikut Sektor Utama pada Tahun 2010**
**FIGURE 1 Number of MS Developed by Sectors in 2010**

| Sektor / Sectors | Jumlah MS yang Dibangunkan No. of MS Developed |
|---|---|
| Pertanian / Agriculture | 15 |
| Kimia dan Bahan / Chemicals and Materials | 85 |
| Kepentingan Pengguna / Consumer Interests | 0 |
| Bangunan, Pembinaan dan Kejuruteraan Awam / Building, Construction and Civil Engineering | 47 |
| Penjanaan, Transmisi dan Pengagihan Tenaga / Generation, Transmission and Distribution of Energy | 56 |
| Kejuruteraan Mekanikal / Mechanical Engineering | 37 |
| Teknologi Maklumat, Komunikasi dan Multimedia Information Technology, Communications and Multimedia | 34 |
| Petroleum dan Gas / Petroleum and Gas | 13 |
| Standard Halal / Halal Standards | 8 |
| Plastik dan Barangan Plastik / Plastics and Plastics Products | 29 |
| Pembungkusan dan Logistik / Packaging and Logistics | 9 |
| Kenderaan Jalan / Road Vehicles | 41 |
| Pencegahan dan Keselamatan Kebakaran / Fire Safety and Prevention | 2 |
| Getah dan Barangan Getah / Rubber and Rubber Products | 13 |
| Pengurusan Organisasi / Organisational Management | 3 |
| Bahan Logam dan Barangan Separuh Siap / Metallic Materials and Semi-finished Products | 27 |
| Tekstil dan Pakaian / Textiles and Apparels | 40 |
| Peralatan Perubatan dan Kemudahan untuk Penjagaan Kesihatan Medical Devices and Facilities for Healthcare | 102 |
| Peralatan dan Aksesori Elektrik dan Elektronik / Electrical and Electronics Equipment and Accessories | 37 |
| Pelancongan, Pameran dan Perkhidmatan Mesra / Tourism, Exhibition and Hospitality Services | 4 |
| Makanan dan Produk Makanan / Food and Food Products | 19 |
| Keselamatan dan Kesihatan Pekerjaan / Occupational Safety and Health | 41 |
| Pengurusan Kualiti dan Penentuan Kualiti / Quality Management and Quality Assurance | 6 |
| Pengurusan Alam Sekitar / Environmental Management | 10 |
| **JUMLAH / TOTAL** | **678** |

## RAJAH 2 Status Pembangunan MS pada Tahun 2010
## FIGURE 2 Status of Development of MS in 2010

| Pembangunan MS<br>MS Development | Sasaran Tahun 2010<br>Target 2010 | MS yang Dibangunkan pada Tahun 2010<br>MS Developed in 2010 | Perbandingan / Difference | |
|---|---|---|---|---|
| | | | Nombor / Number | % |
| Baru (Diguna Pakai/Asli)<br>New (Adopted/Indigenous) | 200 | 455 | 255 | 227.50 |
| Dikaji Semula / Revised | 50 | 223 | 173 | 446.00 |
| **JUMLAH / TOTAL** | **250** | **678** | **428** | **271.20** |

Jumlah MS yang dibangunkan pada tahun 2010 adalah sebanyak 678, iaitu melepasi sasaran 250 MS yang perlu dibangunkan pada tahun tersebut dengan peratusan sebanyak 271.20%.
Total MS developed in 2010 was 678, which exceeded the target of developing 250 MS for the year by 271.20%.

## RAJAH 3 Jumlah Standard Mandatori Mengikut Sektor pada Tahun 2010
## FIGURE 3 Total Mandatory Standards by Sectors in 2010

| Sektor / Sectors | Jumlah Standard Mandatori<br>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<br>Generation, Transmission and Distribution of Energy | 68 |
| 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<br>Medical Devices and Facilities for Healthcare | 1 |
| Peralatan dan Aksesori Elektrik dan Elektronik<br>Electrical and Electronics Equipment and Accessories | 62 |
| Pengurusan Alam Sekitar / Environmental Management | 2 |
| **JUMLAH / TOTAL** | **328** |

Pada tahun 2010, sebanyak 328 standard telah dijadikan standard mandatori dengan yang paling tinggi dari sektor Penjanaan, Transmisi dan Pengagihan Tenaga Elektrik (68), diikuti oleh Peralatan dan Aksesori Elektrik dan Elektronik (62), dan Bahan Logam dan Barangan Separuh Siap (48).
In 2010, 328 standards have been made mandatory with the highest for the Generation, Transmission and Distribution of Energy sector (68) followed by Electrical and Electronic Equipment and Accessories (62) and Metallic Materials and Semi-finished Products (48).

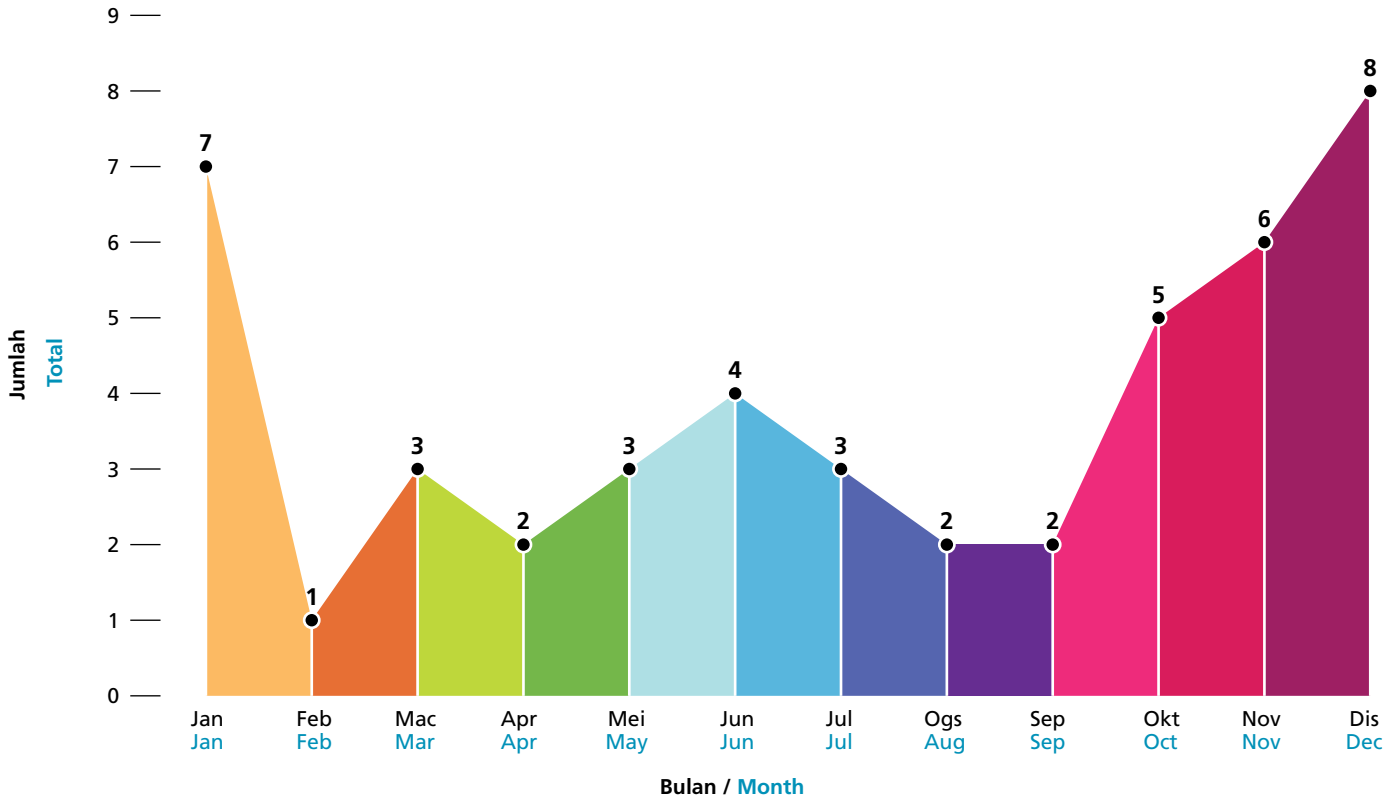
# AKREDITASI / ACCREDITATION

**RAJAH 4 / FIGURE 4**
**Permohonan Baru yang Diterima pada Tahun 2010 (SAMM)**
**New Applications Received in 2010 (SAMM)**

| | Makmal Penentukuran<br>Calibration Laboratories | Makmal Pengujian<br>Testing Laboratories | Makmal Perubatan<br>Medical Laboratories | Jumlah<br>Total |
|---|---|---|---|---|
| Permohonan Baru<br>New Applications | 12 | 52 | 15 | 79 |

Pada tahun 2010, sejumlah 79 permohonan baru telah diterima. Makmal Pengujian menerima permohonan yang paling tinggi sebanyak 52 permohonan.
In 2010, a total of 79 new applications were received with applications from Testing Laboratories recording the highest number at 52.

**RAJAH 5 / FIGURE 5**
**Jumlah Makmal yang Diakredit pada Tahun 2010**
**Total Accredited Laboratories in 2010**




Sejumlah 46 makmal telah diakredit pada tahun 2010.
A total of 46 laboratories were accredited in 2010.

## RAJAH 6 Makmal Baru yang Diakredit pada Tahun 2010
## FIGURE 6 New Laboratories Accredited in 2010

| Bil. No. | Nama Makmal Laboratory Names | Bidang Field |
|---|---|---|
| 1 | Laboratory GPPA, Petronas Gas Berhad, Kemaman | T |
| 2 | Laboratory GPPB, Petronas Gas Berhad, Paka | T |
| 3 | Biro Pengawalan Farmaseutikal Kebangsaan, Kementerian Kesihatan | T |
| 4 | Centralised Laboratory, Vinyl Chloride (Malaysia) Sdn Bhd | T |
| 5 | Slag Cement Sdn Bhd, Westport | T |
| 6 | Gribbles Pathology (M) Sdn Bhd (Ipoh Laboratory) | MT |
| 7 | Innovax Sdn Bhd | T |
| 8 | ES Techventure Sdn Bhd | T |
| 9 | MySEF, CyberSecurity Malaysia | T |
| 10 | TPM Biotech Sdn Bhd | T |
| 11 | Fire Science Research Group | T |
| 12 | CNN Industrial Sdn Bhd | C |
| 13 | BE/BE Laboratory, Hovid Research Berhad | T |
| 14 | Pesticide Residue Laboratory, Malaysia Palm Oil Board (MPOB) | T |
| 15 | CMS Cement Sdn Bhd, Bintulu | T |
| 16 | Kedah Bioresources Corporation Sdn Bhd | T |
| 17 | KRI Laboratory, Kossan Rubber Industries Sdn Bhd | T |
| 18 | Veolia Water (Dungun) Sdn Bhd | T |
| 19 | Hydrotech Metering Sdn Bhd | T |
| 20 | TKR Manufacturing (M) Sdn Bhd | C |
| 21 | Civil Engineering Laboratories Services (CELS), Universiti Malaysia Pahang (UMP) | T |
| 22 | Chemsain Konsultant Sdn Bhd, Labuan | T |
| 23 | Danone Dumex (Malaysia) Sdn Bhd | T |
| 24 | Product Testing Laboratory, Hume Cemboard Industries Sdn Bhd | T |
| 25 | Syarikat Tenaga (Gemas) Testing Laboratory, Syarikat Tenaga (Gemas) Sdn Bhd | T |

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

**RAJAH 6 Makmal Baru yang Diakredit pada Tahun 2010 *(bersambung)***
**FIGURE 6 New Laboratories Accredited in 2010 *(continued)***

| Bil. No. | Nama Makmal Laboratory Names | Bidang Field |
|---|---|---|
| 26 | CTRM AC Testing Laboratory, CTRM Aero Composites Sdn Bhd | T |
| 27 | Plastics Technology Group, Advanced Polymer & Composite Programme, SIRIM Berhad | T |
| 28 | Clinipath (Malaysia) Sdn Bhd | MT |
| 29 | Advanced Medical and Dental Institute, USM | MT |
| 30 | VNA Engineering Sdn Bhd | C |
| 31 | CAL25 Calibration Laboratory, Kampus Kesihatan, USM | C |
| 32 | *Makmal Bioserasi*, UKM | T |
| 33 | Pathology Laboratory, *Hospital Universiti Sains Malaysia* (HUSM) | MT |
| 34 | Department of Diagnostic Laboratory Services, University Malaya Medical Centre (UMMC) | MT |
| 35 | Wood Lamination Laboratory, Forest Research Institute Malaysia (FRIM) | T |
| 36 | Furniture Testing Laboratory, FRIM | T |
| 37 | Timber Engineering Laboratory, FRIM | T |
| 38 | Makmal Veterinar Kawasan Johor Bahru | T |
| 39 | Makmal USPM, Cawangan Kejuruteraan Elektrik, Jabatan Kerja Raya | T |
| 40 | Olipro Biotechnology Sdn Bhd | T |
| 41 | MPB Central Testing Laboratory, Malaysian Pepper Board | T |
| 42 | GT Instruments Sdn Bhd | C |
| 43 | WiMAX Laboratory, SIRIM QAS International Sdn Bhd | T |
| 44 | Wood Drying Laboratory, FRIM | T |
| 45 | Wood Finishing Laboratory, FRIM | T |
| 46 | Water Meter Test Laboratory, Delta Perdana Sdn Bhd | T |

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

## RAJAH 7 FIGURE 7 Akreditasi Makmal yang Ditarik Balik Semenjak 1996 / Withdrawn Laboratories Since 1996

| | Makmal Penentukuran / Calibration Laboratories | Makmal Pengujian / Testing Laboratories | Makmal Perubatan / Medical Laboratories | Jumlah / Total |
|---|---|---|---|---|
| Jumlah Tarik Balik / Total Withdrawn | 24 | 62 | 1 | 87 |

Sejumlah 87 makmal telah ditarik balik (akreditasi makmal) sejak tahun 1996.
Accreditations for 87 laboratories were withdrawn since 1996.

## RAJAH 8 FIGURE 8 Sijil-sijil yang Dikeluarkan oleh Badan-badan Pensijilan yang Diakredit Mengikut Sektor sehingga 31 Disember 2010 / Certificates Issued by Accredited Certification Bodies According to Sectors as at December 31, 2010

| Bil. / No. | Sektor / Sectors | QMS | EMS | OSH | | PC |
|---|---|---|---|---|---|---|
| | | ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007 | MS 1722 Part 1:2005 | Pelbagai Standard Produk / Various Product Standards |
| 1 | Pertanian, Perikanan / Agriculture, Fishing | 28 | 7 | 5 | 1 | - |
| 2 | Perlombongan dan Kuari / Mining and Quarrying | 17 | 7 | 3 | 1 | - |
| 3 | Produk Makanan, Minuman dan Tembakau Food Products, Beverages and Tobacco | 213 | 98 | 94 | 7 | - |
| 4 | Tekstil dan Produk Tekstil / Textiles and Textile Products | 45 | 5 | 1 | 1 | - |
| 5 | Kulit dan Produk Kulit / Leather and Leather Products | 4 | - | 0 | 0 | - |
| 6 | Kayu dan Produk Kayu / Wood and Wood Products | 44 | 7 | 1 | 0 | 5 |
| 7 | Pulpa, Kertas dan Produk Kertas Pulp, Paper and Paper Products | 100 | 22 | 5 | 1 | - |
| 8 | Syarikat Penerbitan / Publishing Companies | 7 | 1 | 0 | 0 | - |
| 9 | Syarikat Pencetakan / Printing Companies | 37 | 20 | 4 | 0 | - |
| 10 | Pembuatan Arang Batu dan Produk Petroleum Bertapis Manufacture of Coke and Refined Petroleum Products | 19 | 9 | 3 | 0 | - |
| 11 | Bahan Api Nuklear / Nuclear Fuel | 4 | - | 0 | 0 | - |
| 12 | Kimia, Produk Kimia dan Gentian Chemicals, Chemical Products and Fibres | 221 | 54 | 23 | 7 | - |
| 13 | Farmaseutikal / Pharmaceuticals | 4 | 1 | 1 | 0 | - |
| 14 | Getah dan Produk Plastik / Rubber and Plastic Products | 360 | 100 | 16 | 0 | 20 |
| 15 | Produk Mineral Bukan Logam Non-metallic Mineral Products | 50 | 12 | 3 | 0 | 266 |
| 16 | Konkrit, Simen, Kapur, Plaster, dsb Concrete, Cement, Lime, Plaster, etc | 126 | 11 | 12 | 0 | 17 |
| 17 | Logam Asas dan Produk Logam yang Difabrikasi Basic Metals and Fabricated Metal Products | 472 | 93 | 34 | 5 | 17 |

**RAJAH 8 FIGURE** **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 Sectors | QMS | EMS | OSH | | PC |
|---|---|---|---|---|---|---|
| | | ISO 9001:2008 | ISO 14001:2004 | OHSAS 18001:2007 | MS 1722 Part 1:2005 | Pelbagai Standard Produk Various Product Standards |
| 18 | Pemesinan dan Peralatan / Machinery and Equipment | 118 | 19 | 9 | 1 | 213 |
| 19 | Peralatan Elektrik dan Optikal Electrical and Optical Equipment | 346 | 161 | 48 | 6 | 91 |
| 20 | Pembinaan Kapal / Shipbuilding | 6 | - | 0 | 0 | - |
| 21 | Aero-Angkasa / Aerospace | 8 | 3 | 1 | 0 | - |
| 22 | Peralatan Pengangkutan Lain Other Transport Equipment | 52 | 21 | 12 | 0 | - |
| 23 | Pembuatan yang Tidak Diklasifikasikan di Mana-mana Manufacturing not Classified Elsewhere | 46 | 7 | 5 | 1 | 1 |
| 24 | Kitar Semula / Recycling | 26 | 25 | 5 | 3 | - |
| 25 | Bekalan Elektrik / Electricity Supply | 35 | 20 | 17 | 7 | - |
| 26 | Bekalan Gas / Gas Supply | 2 | 3 | 3 | 1 | - |
| 27 | Bekalan Air / Water Supply | 23 | 4 | 2 | 0 | - |
| 28 | Pembinaan / Construction | 831 | 44 | 62 | 36 | - |
| 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 | 204 | 20 | 11 | 2 | - |
| 30 | Hotel dan Restoran / Hotels and Restaurants | 19 | 9 | 4 | 1 | - |
| 31 | Pengangkutan, Penyimpanan dan Komunikasi Transport, Storage and Communication | 179 | 20 | 26 | 7 | - |
| 32 | Pengantaraan Kewangan; Hartanah; Penyewaan Financial Intermediation; Real Estate; Renting | 120 | 3 | 2 | 0 | - |
| 33 | Teknologi Maklumat / Information Technology | 59 | 1 | 2 | 0 | - |
| 34 | Perkhidmatan Kejuruteraan / Engineering Services | 325 | 37 | 34 | 13 | - |
| 35 | Perkhidmatan Lain / Other Services | 172 | 10 | 15 | 2 | - |
| 36 | Pentadbiran Awam / Public Administration | 330 | 10 | 2 | 1 | - |
| 37 | Pendidikan / Education | 210 | 1 | 1 | 0 | - |
| 38 | Kerja Sosial dan Kesihatan / Health and Social Work | 193 | 2 | 3 | 0 | - |
| 39 | Perkhidmatan Sosial Lain / Other Social Services | 83 | 8 | 3 | 3 | - |
| | **JUMLAH / TOTAL** | **5,138** | **875** | **472** | **107** | **630** |

## RAJAH 9 Senarai Badan Pensijilan Baru yang Diakredit pada Tahun 2010
## FIGURE 9 List of New Accredited CBs in 2010

| Bil. / No. | Badan Pensijilan / Certification Body | Program / Programme |
|---|---|---|
| 1 | CARE Certification International (M) Sdn Bhd | QMS |
| 2 | SGS (M) Sdn Bhd | FSMS |
| 3 | Moody International Certification (M) Sdn Bhd | Product Certification |
| 4 | Bureau Veritas Certification (M) Sdn Bhd | FSMS |
| 5 | AGM Certification Sdn Bhd | QMS |

## RAJAH 10 Jumlah Permohonan yang Diterima pada Tahun 2010 (Skim ACB)
## FIGURE 10 Number of Applications Received in 2010 (ACB Scheme)

| Program / Programme | Jumlah Permohonan yang Diterima / No. of Application Received |
|---|---|
| Product Certification Systems (PCS) | 2 |
| Certification of Persons (PERSONNEL) | 1 |
| Information Security Management Systems (ISMS) | 1 |
| Quality Management Systems (QMS) | 1 |
| Food Safety Management Systems (FSMS) | 2 |
| **JUMLAH / TOTAL** | **7** |

## RAJAH 11 Jumlah Badan Pensijilan yang Diakredit sehingga 31 Disember 2010
## FIGURE 11 Number of Accredited Certification Bodies as at December 31, 2010

| Skim<br>Scheme | Kumulatif sehingga 2009<br>Cumulative up to 2009 | 2010 | Kumulatif sehingga 2010<br>Cumulative up to 2010 | Simbol Akreditasi<br>Accreditation Symbols |
|---|---|---|---|---|
| ACB<br>(Program QMS)<br>(QMS Programme) | 12 | 2 | 14 | **MS ISO/IEC 17021: 2006**<br>Simbol Akreditasi bagi<br>Sistem Pengurusan Kualiti (QMS)<br>Accreditation Symbol for<br>Quality Management System (QMS) |
| ACB<br>(Program EMS)<br>(EMS Programme) | 8 | 0 | 8 | **MS ISO/IEC 17021: 2006**<br>Simbol Akreditasi bagi Sistem Pengurusan<br>Alam Sekitar (EMS)<br>Accreditation Symbol for<br>Environmental Management System (EMS) |
| ACB<br>(Produk)<br>(Product) | 4 | 1 | 5 | **MS ISO/IEC GUIDE 65: 2000**<br>Simbol Akreditasi bagi<br>Pensijilan Produk (PCB)<br>Accreditation Symbol for<br>Product Certification Bodies (PCB) |
| ACB<br>(Sistem Pengurusan<br>OSH)<br>(OSH Management<br>System) | 3 | 0 | 3 | **MS ISO/IEC 17021: 2006**<br>Simbol Akreditasi bagi<br>Sistem Pengurusan OSH (OSH MS)<br>Accreditation Symbol for<br>OSH Management System (OSH MS) |
| ACB<br>(Sistem HACCP)<br>(HACCP System) | 3 | 0 | 3 | **MS ISO/IEC 17021: 2006**<br>Simbol Akreditasi bagi Sistem HACCP<br>Accreditation Symbol for HACCP Systems |

**RAJAH 11 Jumlah Badan Pensijilan yang Diakredit sehingga 31 Disember 2010 *(bersambung)***
**FIGURE 11 Number of Accredited Certification Bodies as at December 31, 2010 *(continued)***

| Skim<br>Scheme | Kumulatif sehingga 2009<br>Cumulative up to 2009 | 2010 | Kumulatif sehingga 2010<br>Cumulative up to 2010 | Simbol Akreditasi<br>Accreditation Symbols |
|---|---|---|---|---|
| ACB (ISMS) | 0 | 0 | 0 | **MS ISO/IEC GUIDE 27006: 2007**<br>Simbol Akreditasi bagi Sistem Pengurusan Keselamatan Maklumat (ISMS)<br>Accreditation Symbol for Information Security Management Systems (ISMS) |
| ACB (FMC) | 2 | 0 | 2 | **MS ISO/IEC 17021: 2006**<br>Simbol Akreditasi bagi Pengurusan Pensijilan Hutan (FMC)<br>Accreditation Symbol for Forest Management Certification (FMC) |
| ACB (FSMS) | 2 | 2 | 4 | **ISO/TS 22003: 2007**<br>Simbol Akreditasi bagi Sistem Pengurusan Keselamatan Makanan (FSMS)<br>Accreditation Symbol for Food Safety Management Systems (FSMS) |
| ACB (Personel)<br>(Personnel) | 0 | 0 | 0 | **MS ISO/IEC 17024: 2003**<br>Simbol Akreditasi bagi Pensijilan Individu<br>Accreditation Symbol for Certification of Persons |

**RAJAH 12 Jumlah Penilaian Makmal pada Tahun 2010**
**FIGURE 12 Total Laboratory Assessments in 2010**

| Jenis Penilaian<br>Type of Assessment | Jan<br>Jan | Feb<br>Feb | Mac<br>Mar | Apr<br>Apr | Mei<br>May | Jun<br>Jun | Jul<br>Jul | Ogs<br>Aug | Sep<br>Sep | Okt<br>Oct | Nov<br>Nov | Dis<br>Dec | JUMLAH<br>TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Audit Kelayakan<br>Adequacy Audit | 4 | 1 | 6 | 5 | 4 | 3 | 3 | 1 | 5 | 6 | 5 | 2 | 45 |
| Pra Penilaian<br>Pre-Assessment | 6 | 3 | 2 | 4 | 6 | 3 | 2 | 8 | 2 | 6 | 2 | 3 | 47 |
| Pematuhan<br>Compliance | 3 | 2 | 5 | 3 | 4 | 2 | 7 | 4 | 4 | 3 | 7 | 1 | 45 |
| Pemantauan 1<br>Surveillance 1 | 15 | 10 | 23 | 19 | 18 | 20 | 19 | 16 | 10 | 11 | 17 | 4 | 182 |
| Pemantauan 2<br>Surveillance 2 | 10 | 4 | 5 | 1 | 11 | 7 | 7 | 5 | 2 | 6 | 4 | 1 | 63 |
| Penilaian Semula<br>Re-Assessment | 1 | 0 | 0 | 0 | 4 | 4 | 4 | 7 | 10 | 15 | 20 | 3 | 68 |
| Tambahan Skop<br>Extension of Scope | 5 | 4 | 10 | 3 | 8 | 6 | 6 | 7 | 2 | 6 | 9 | 5 | 71 |
| Pengesahan Penandatangan<br>Signatory Verification | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 6 |
| Tinjauan dan Tambahan Skop<br>Surveillance and Extension of Scope | 3 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 3 | 3 | 4 | 0 | 22 |
| Penilaian Semula dan Tambahan Skop<br>Re-Assessment and Extension of Scope | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 1 | 0 | 8 |
| Pengesahan<br>Verification | 3 | 2 | 2 | 0 | 0 | 2 | 1 | 0 | 3 | 0 | 2 | 0 | 15 |
| Penempatan Semula<br>Relocation | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| **JUMLAH / TOTAL** | **53** | **27** | **55** | **36** | **57** | **50** | **52** | **50** | **45** | **58** | **72** | **19** | **574** |

Sejumlah 574 penilaian telah dilaksanakan pada tahun 2010 dengan catatan tertinggi sebanyak 72 pada bulan November.
A total of 574 assessments were made in 2010 with the highest total of 72 recorded in November.

# Prestasi Kumulatif / Cumulative Performance

## STANDARD / STANDARDS

**RAJAH 1 / FIGURE 1** **Perkembangan Pembangunan *Malaysian Standards* dari Tahun 1996-2010**
**The Development Progress of Malaysian Standards from 1996-2010**

| Keseluruhan Jumlah MS / Total Cumulative MS | Tahun / Year | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| | 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 |

Jumlah kumulatif MS yang dibangunkan dari 1996 hingga 2010 adalah sebanyak 6,260. Catatan kumulatif tersebut menunjukkan peningkatan dari tahun ke tahun kecuali pada tahun 2001.
Cumulative MS developed from 1996 to 2010 was 6,260. The cumulative figure rose from year to year except in year 2001.

**RAJAH 2 / FIGURE 2** **Jumlah MS yang Dibangunkan Setiap Tahun dari Tahun 2006-2010**
**Number of MS Developed Every Year From 2006-2010**

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

Jumlah MS yang dibangunkan pada tahun 2010 adalah sebanyak 678.
The number of MS developed in 2010 was 678.

**RAJAH 3 / FIGURE 3** **Status Pembangunan MS dari Tahun 2006-2010**
**Status of Development of MS from 2006-2010**

| Tahun / Year | 2006 | 2007 | 2008 | 2009 | 2010 |
|---|---|---|---|---|---|
| Jumlah MS / Number of MS | 4,570 | 5,060 | 5,518 | 5,792 | 6,260 |
| Sasaran / Target | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 |

Jumlah kumulatif MS yang dibangunkan sehingga tahun 2010 adalah sebanyak 6,260 mewakili 104.33% dari sasaran negara sebanyak 6,000 MS yang perlu dibangunkan sehingga tahun 2010.
The cumulative total of 6,260 MS developed by the year 2010 represented 104.33% of the national target of 6,000 MS to be developed by the year 2010.

## RAJAH 4 Jumlah MS yang Diselaraskan kepada Standard Antarabangsa dari Tahun 2006-2010
## FIGURE 4 Number of MS Aligned to International Standards from 2006-2010

| Tahun / Year | Jumlah MS Dibangunkan Number of MS Developed | Jumlah MS yang Diselaraskan kepada 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 |

Sehingga tahun 2010, sebanyak 3,759 MS atau 60.0% dari jumlah 6,260 MS yang dibangunkan telah diselaraskan kepada standard antarabangsa.
As at 2010, out of 6,260 MS developed, 3,759 MS or 60.0% were aligned to international standards.

## RAJAH 5 Jumlah Kumulatif Standard Mandatori dari Tahun 2006-2010
## FIGURE 5 Cumulative Number of Mandatory Standards from 2006-2010

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

Jumlah kumulatif standard mandatori telah meningkat daripada 123 MS pada tahun 2006 kepada 328 MS pada tahun 2010.
Cumulative mandatory standards increased from 123 MS in 2006 to 328 in 2010.

## RAJAH 6 Jumlah Kumulatif MS yang Dibangunkan Mengikut Sektor sehingga 31 Disember 2010
## FIGURE 6 Cumulative Number of MS Developed by Sectors as at December 31, 2010

| Sektor / Sector | Jumlah MS Number of MS |
|---|---|
| Pertanian / Agriculture | 593 |
| Kimia dan Bahan / Chemicals and Materials | 776 |
| Kepentingan Pengguna / Consumer Interests | 0 |
| Bangunan, Pembinaan dan Kejuruteraan Awam / Building, Construction and Civil Engineering | 316 |
| Penjanaan, Transmisi dan Pengagihan Tenaga / Generation, Transmission and Distribution of Energy | 875 |
| Kejuruteraan Mekanikal / Mechanical Engineering | 342 |
| Teknologi Maklumat, Komunikasi dan Multimedia / Information Technology, Communication and Multimedia | 727 |
| Petroleum dan Gas / Petroleum and Gas | 221 |
| Standard Halal / Halal Standards | 9 |
| Plastik dan Barangan Plastik / Plastics and Plastics Products | 393 |
| Pembungkusan dan Pengedaran / Packaging and Logistics | 115 |
| Kenderaan Jalan / Road Vehicles | 212 |
| Pencegahan dan Keselamatan Kebakaran / Fire Safety and Prevention | 93 |
| Getah dan Barangan Getah / Rubber and Rubber Products | 191 |
| Pengurusan Organisasi / Organisational Management | 7 |
| Bahan Logam dan Barangan Separuh Siap / Metallic Materials and Semi-finished Products | 177 |
| Tekstil dan Pakaian / Textiles and Apparels | 293 |
| Peralatan Perubatan dan Kemudahan untuk Penjagaan Kesihatan Medical Devices and Facilities for Healthcare | 310 |
| Peralatan dan Aksesori Elektrik dan Elektronik / Electrical and Electronics Equipment and Accessories | 120 |
| Pelancongan, Pameran dan Perkhidmatan Mesra / Tourism, Exhibition and Hospitality Services | 10 |
| Makanan dan Produk Makanan / Food and Food Products | 74 |
| Keselamatan dan Kesihatan Pekerjaan / Occupational Safety and Health | 195 |
| Pengurusan Kualiti dan Penentuan Kualiti / Quality Management and Quality Assurance | 130 |
| Pengurusan Alam Sekitar / Environmental Management | 81 |
| **JUMLAH / TOTAL** | **6,260** |

Jumlah kumulatif MS yang dibangunkan sehingga 31 Disember 2010 adalah sebanyak 6,260. Jumlah tertinggi MS yang dibangunkan adalah dalam sektor Penjanaan, Transmisi dan Pengagihan Tenaga (875), diikuti oleh Kimia dan Bahan (776) dan Teknologi Maklumat, Komunikasi dan Multimedia (727). Jumlah terendah MS yang dibangunkan adalah dalam sektor Kepentingan Pengguna (0).
Cumulative number of MS developed up to December 31, 2010 was 6,260. The highest number of MS developed was in the Generation, Transmission and Distribution of Energy (875), followed by Chemicals and Materials (776) and Information Technology, Communication and Multimedia (727). The lowest number of MS developed was in Consumer Interests (0).

## RAJAH 7 Pelarasan Kumulatif MS kepada Standard Antarabangsa sehingga 31 Disember 2010
## FIGURE 7 Alignment of Cumulative MS to International Standards as at December 31, 2010

| Bidang / Field | (31 Disember 2010) / (December 31, 2010) | | |
|---|---|---|---|
| | Jumlah Kumulatif MS yang Dibangunkan Cumulative MS Developed | MS yang Diselaraskan Aligned MS | |
| | | Serupa Identical | Diubah Modified |
| Pertanian / Agriculture | 593 | 123 | 6 |
| Kimia dan Bahan / Chemicals and Materials | 776 | 399 | 60 |
| Kepentingan Pengguna / Consumer Interests | 0 | 0 | 0 |
| Bangunan, Pembinaan dan Kejuruteraan Awam Building, Construction and Civil Engineering | 316 | 64 | 4 |
| Penjanaan, Transmisi dan Pengagihan Tenaga Generation, Transmission and Distribution of Energy | 875 | 631 | 33 |
| Kejuruteraan Mekanikal / Mechanical Engineering | 342 | 170 | 5 |
| Teknologi Maklumat, Komunikasi dan Multimedia Information Technology, Communication and Multimedia | 727 | 669 | 3 |
| Petroleum dan Gas / Petroleum and Gas | 221 | 119 | 6 |
| Standard Halal / Halal Standards | 9 | 0 | 0 |
| Plastik dan Barangan Plastik / Plastics and Plastics Products | 393 | 186 | 16 |
| Pembungkusan dan Pengedaran / Packaging and Logistics | 115 | 56 | 0 |
| Kenderaan Jalan / Road Vehicles | 212 | 116 | 12 |
| Pencegahan dan Keselamatan Kebakaran / Fire Safety and Prevention | 93 | 34 | 2 |
| Getah dan Barangan Getah / Rubber and Rubber Products | 191 | 107 | 19 |
| Pengurusan Organisasi / Organisational Management | 7 | 7 | 0 |
| Bahan Logam dan Barangan Separuh Siap / Metallic Materials and Semi-finished Products | 177 | 89 | 18 |
| Tekstil dan Pakaian / Textiles and Apparels | 293 | 83 | 2 |
| Peralatan Perubatan dan Kemudahan Penjagaan Kesihatan Medical Devices and Facilities for Healthcare | 310 | 260 | 4 |
| Peralatan dan Aksesori Elektrik dan Electronik Electrical and Electronics Equipment and Accessories | 120 | 59 | 7 |
| Pelancongan, Pameran dan Perkhidmatan Mesra Tourism, Exhibition and Hospitality Services | 10 | 6 | 1 |
| Makanan dan Produk Makanan / Food and Food Products | 74 | 45 | 3 |
| Keselamatan dan Kesihatan Pekerjaan / Occupational Safety and Health | 195 | 156 | 4 |
| Pengurusan Kualiti dan Penentuan Kualiti / Quality Management and Quality Assurance | 130 | 114 | 3 |
| Pengurusan Alam Sekitar / Environmental Management | 81 | 58 | 0 |
| **JUMLAH / TOTAL** | **6,260** | **3,551** | **208** |
| **PERATUS PELARASAN / RATE OF ALIGNMENT** | | **60.05%** | |

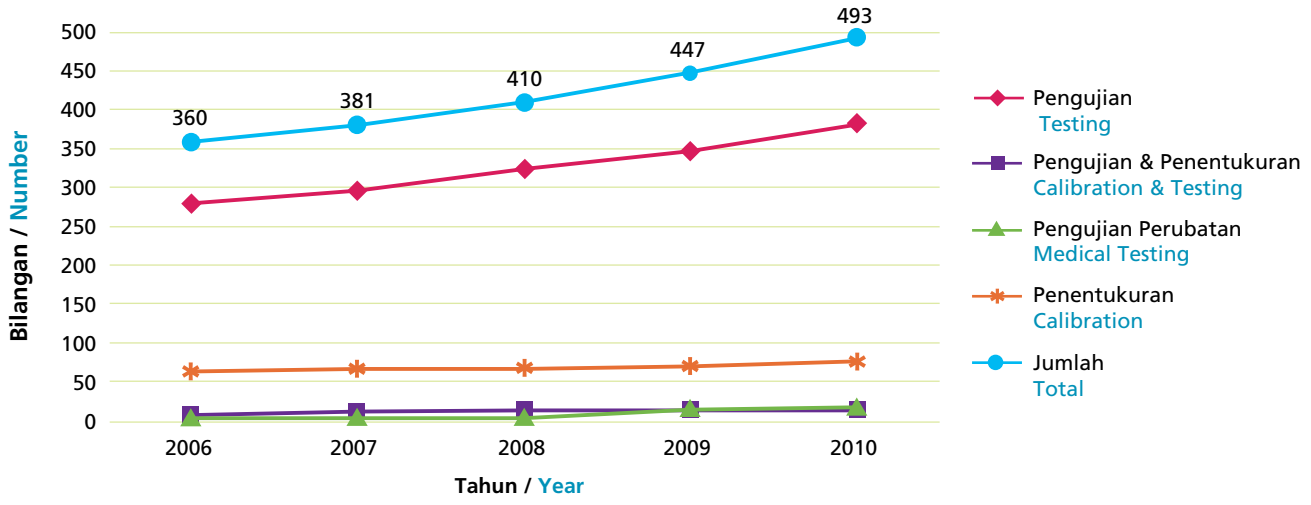
Peratusan jumlah kumulatif MS yang dibangunkan dan telah diselaraskan kepada standard antarabangsa sehingga 31 Disember 2010 adalah sebanyak 60.05%.
The percentage of cumulative MS developed and aligned to international standards as at December 31, 2010 was 60.05%.

# AKREDITASI / ACCREDITATION

**RAJAH 8 / FIGURE 8**
**Jumlah Makmal yang Diakredit sehingga 31 Disember 2010**
**Number of Accredited Laboratories as at December 31, 2010**

| Bidang / Field | Jumlah Bilangan Makmal yang Diakredit / Total Number of Accredited Laboratories | |
|---|---|---|
| | Kumulatif / Cumulative | Aktif / Active |
| Pengujian / Testing | 382 | 320 |
| Penentukuran / Calibration | 78 | 54 |
| Pengujian dan Penentukuran / Calibration and Testing | 14 | 13 |
| Pengujian Perubatan / Medical Testing | 19 | 19 |
| **JUMLAH / TOTAL** | **493** | **406** |

**RAJAH 9 / FIGURE 9**
**Pembahagian Jumlah Makmal yang Diakredit sehingga 31 Disember 2010**
**Breakdown of the Number of Accredited Laboratories as at December 31, 2010**




Pada tahun 2010, sebanyak 493 makmal telah diakredit di mana ia menunjukkan peningkatan berbanding dengan tahun sebelumnya.
In 2010, 493 laboratories were accredited, which was a marked increase from previous years.

**RAJAH 10 Jumlah Badan Pensijilan yang Diakredit dari 2006-2010**
**FIGURE 10 Number of CBs Accredited from 2006-2010**

| Program Akreditasi / Accreditation Programme | Badan Pensijilan yang Diakredit / Accredited CBs | | | | | Keseluruhan Jumlah Badan Pensijilan yang Diakredit sehingga 31 Disember 2010 / Total Cumulative Number of Accredited CBs up to December 31, 2010 |
|---|---|---|---|---|---|---|
| | 2006 | 2007 | 2008 | 2009 | 2010 | |
| QMS / QMS | 2 | 1 | 0 | 1 | 2 | 14 |
| EMS / EMS | 3 | 0 | 1 | 0 | 0 | 8 |
| PC / PC | 1 | 0 | 0 | 2 | 1 | 5 |
| OSH / OSH | 0 | 1 | 1 | 0 | 0 | 3 |
| Sistem HACCP / HACCP System | 0 | 1 | 2 | 0 | 0 | 3 |
| ISMS / ISMS | 0 | 0 | 0 | 0 | 0 | 0 |
| FMC / FMC | N/A | 0 | 0 | 2 | 0 | 2 |
| FSMS / FSMS | N/A | N/A | 1 | 1 | 2 | 4 |
| Personel / Personnel | N/A | N/A | 0 | 0 | 0 | 0 |

Jumlah Badan Pensijilan yang diakredit oleh STANDARDS MALAYSIA dari 2006 hingga 2010 mengikut program-program yang ditawarkan.
Number of CBs accredited by STANDARDS MALAYSIA from 2006 to 2010 according to various programmes offered.

# STATISTIK MIBAS / MIBAS STATISTICS

## RAJAH 11 / FIGURE 11 Jumlah Badan Pemeriksa yang Diakredit pada Tahun 2010 / Number of Accredited Inspection Bodies in 2010

| Bilangan / Number | Nama Badan Pemeriksa / Name of Inspection Bodies | Bidang / Field |
|---|---|---|
| 1 | Consumer Testing Services, SGS Malaysia Sdn Bhd, Selangor | • Barangan Hasil Kilang / Manufactured Goods<br>• Audit Kilang / Factory Audits |
| 2 | Product Inspection Section, Quality Assurance Unit, TNB Research Sdn Bhd, Selangor | • Produk Elektrik / Electrical Products |
| 3 | Product Certification and Inspection Department, SIRIM QAS International Sdn Bhd, Selangor | • Pemeriksaan Kimpalan / Welding Inspection |

Jumlah Badan Pemeriksa yang diakredit dan bidang pengkhususannya, ditunjukkan di rajah 11.
Number of accredited Inspection Bodies and their fields of specialisation are shown in figure 11.

## RAJAH 12 / FIGURE 12 Jumlah Pemohon Mengikut Bidang Tahun 2010 / Number of Applicants According to Fields in 2010

| Bidang / Field | Bilangan / Number |
|---|---|
| Ujian Tanpa Musnah / Non-destructive Test | 5 |
| Pemeriksaan Kenderaan / Vehicle Inspection | 1 |
| Pemeriksaan Kimpalan / Welding Inspection | 1 |
| **JUMLAH / TOTAL** | **7** |

Rajah 12 menunjukkan jumlah permohonan mengikut bidang.
Figure 12 shows the number of applicants and their fields.

# PENGLIBATAN PADA PERINGKAT ISO/IEC / PARTICIPATION AT ISO/IEC LEVEL

**RAJAH 13 / FIGURE 13** **Ringkasan Penyertaan Malaysia dalam ISO TC/SC**
**Summary of Malaysia's Participation in ISO TC/SC**

| JENIS / TYPE | TC | | SC | | JUMLAH / TOTAL | |
|---|---|---|---|---|---|---|
| | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 |
| Keahlian "P" / "P" Member | 1 | 3 | 5 | 1 | 6 | 4 |
| Keahlian "O" / "O" Member | 1 | 6 | 2 | 1 | 3 | 7 |

**RAJAH 14 / FIGURE 14** **Ringkasan Penyertaan Malaysia dalam IEC TC/SC**
**Summary of Malaysia's Participation in IEC TC/SC**

| JENIS / TYPE | TC | | SC | | JUMLAH / TOTAL | |
|---|---|---|---|---|---|---|
| | 2009 | 2010 | 2009 | 2010 | 2009 | 2010 |
| Keahlian "P" / "P" Member | 0 | 4 | 0 | 1 | 0 | 5 |
| Keahlian "O" / "O" Member | 1 | 1 | 0 | 0 | 1 | 1 |

STANDARDS MALAYSIA hanya menganggotai satu keahlian "O" (Ordinary) dalam IEC TC pada tahun 2010.
STANDARDS MALAYSIA held only one "O" (Ordinary) membership in 2010 in IEC TC.

**RAJAH 15 / FIGURE 15** **Jumlah Penyertaan Sebagai Ahli "P" dalam ISO dan IEC pada Tahun 2010**
**Total Number of Participating "P" Membership of ISO and IEC in 2010**

| ISO | IEC |
|---|---|
| 124 | 22 |

Pada tahun 2010, jumlah keahlian "P" Malaysia dalam ISO dan IEC masing-masing adalah 124 dan 22.
Malaysia's total "P" memberships in both ISO and IEC in 2010 are 124 and 22 respectively.

## RAJAH 16 Keahlian dalam ISO dan IEC TC/SC
## FIGURE 16 Memberships in ISO and IEC TC/SC

Pada 2010, Malaysia menduduki TC berikut:

**Ahli "P"**

- ISO/TC 135/SC 7 - Kelayakan Personel
- ISO/TC 193 - Gas Asli
- ISO/TC 223 - Keselamatan Masyarakat
- ISO/TC 257 - Penjimatan Tenaga
- ISO/IEC JPC 2 - Kecekapan Tenaga dan Sumber Tenaga Boleh Baharu - Terminologi Antarabangsa Sepunya
- IEC/TC 82/ - Sistem Tenaga Fotovoltaik Solar
- IEC/TC 59 - Prestasi Isi Rumah dan Peralatan Elektrik Serupa
- IEC/SC 65A - Aspek Sistem
- IEC/TC 65C - Rangkaian Industri

**Ahli "O"**

- ISO/TC 142 - Peralatan Pencuci untuk Udara dan Lain-lain Gas
- ISO/TC 173 - Produk Bantuan bagi Orang Kurang Upaya
- ISO/TC 173/SC 7 - Rekabentuk Boleh Guna bagi Produk Bantuan
- ISO/PC 251 - Jawatankuasa Projek: Pengurusan Aset
- ISO/TC 253 - Jawatankuasa Projek: Air Buangan Terawat Diguna Semula bagi tujuan Pengairan
- ISO/TC 254 - Tarikan Keselamatan
- ISO/TC 256 - Pigmen dan Pemanjang
- IEC/TC 56 - Boleh Dipercayai/Kebolehharapan

In 2010, Malaysia sits in the following TCs:

**"P" Member**

- ISO/TC 135/SC 7 - Personnel Qualification
- ISO/TC 193 - Natural Gas
- ISO/TC 223 - Societal Security
- ISO/TC 257 - Energy Saving
- ISO/IEC JPC 2 - Energy Efficiency and Renewable Energy Sources-Common International Terminology
- IEC/TC 82/ - Solar Photovoltaic Energy Systems
- IEC/TC 59 - Performance of Household and Similar Electrical Appliances
- IEC/SC 65A - System Aspects
- IEC/TC 65C - Industrial Networks

**"O" Member**

- ISO/TC 142 - Cleaning Equipment for Air and Other Gases
- ISO/TC 173 - Assistive Products for Persons with Disability
- ISO/TC 173/SC 7 - Accessible Design for Assistive Products
- ISO/PC 251 - Project Committee: Asset Management
- ISO/TC 253 - Project Committee: Treated Wastewater Re-use for Irrigation
- ISO/TC 254 - Safety of Attractions
- ISO/TC 256 - Pigments and Extenders
- IEC/TC 56 - Dependability

## RAJAH 17 Jumlah *Convenorship* yang Dipegang oleh STANDARDS MALAYSIA
## FIGURE 17 Number of Convenorships Held by STANDARDS MALAYSIA

i) Kumpulan Kerja Jawatankuasa Bersama berkenaan Desentralisasi Sistem Tenaga Boleh Diperbaharui
i) Joint Committee Working Group on Decentralised Renewable Energy Systems

# *Obituary*

*Y.Bhg. Datuk Ir. (Dr.) Mohd. Annas Mohd. Nor was born on 8 September 1946. He received his Bachelor's Degree in Science with Honours in Electrical Engineering from Brighton Polytechnic in 1972 and Masters in Management from the Asian Institute of Management, The Philippines in 1984. He was awarded the Honorary Doctorate of Technology from University of Brighton, UK in 2002 and the Honorary Doctorate of Engineering from* Kolej Universiti Teknikal Kebangsaan *Malaysia in 2005.*

*Y.Bhg. Datuk Ir. (Dr.) Mohd. Annas Mohd. Nor was the Special Advisor, International Business for Genting Power Holding Ltd. Prior to this, Y.Bhg. Datuk Ir. (Dr.) Mohd. Annas Mohd. Nor was the Chairman of the Energy Commission, the regulatory agency for electricity and gas supply in Malaysia; and had been a dedicated government servant for 33 years. He was instrumental in setting up the Energy Commission and played a key role in the administration of the Energy Commission Act 2001, in particular the privatisation of the electricity supply and gas distribution. He was the Director General of the Electricity and Gas Supply, Malaysia and had also served the National Electricity Board (presently known as* Tenaga Nasional Berhad *(TNB) – the national electricity utility company) from 1972 until 1988. From 1988 until August 1990, he was the Head of Energy Unit in the Ministry of Energy, Telecommunications and Posts, Malaysia, in charge of energy policies and development of electricity supply matters.*

*In the area of standardisation, Y.Bhg. Datuk Ir. (Dr.) Mohd. Annas Mohd. Nor was actively involved in national and international standardisation activities. He was the president of the IEC National Committee of Malaysia since 1996. He also assumed a number of leading positions in national standards development and participated in various international standardisation fora.*

*On 15 November 2010, he passed away after a four-month battle with lymphoma.*

*AL-FATIHAH*

# SINGKATAN KATA

| | |
|---|---|
| 5S | Amalan Kualiti Persekitaran |
| ACB | Akreditasi Badan-badan Pensijilan |
| ACCSQ | *ASEAN Consultative Committee for Standards and Quality* |
| AMDI | *Advanced Medical & Dental Institute* |
| APEC | *Asia-Pacific Economic Cooperation* |
| APLAC | *Asia Pacific Laboratory Accreditation Cooperation* |
| ASEAN | *Association of South East Asian Nations* |
| BS | *Standard British* |
| CB | Badan Pensijilan |
| CELS | *Civil Engineering Laboratory Services* |
| CIE | *International Commission on Illumination* |
| CMIS | *Committee on Mandatory Industrial Standards* |
| COP | *Codes of Practice* |
| COPOLCO | *Committee on Consumer Policy* |
| COMCEC | *Economic and Commercial Cooperation of the Organisation of Islamic Conference* |
| CP | Program Pematuhan |
| CPTM | *Commonwealth Partnership for Technology Management* |
| Cyber Security | *Cyber Security Malaysia* |
| DPIM | Dewan Perdagangan Islam Malaysia |
| EMS | Sistem Pengurusan Alam Sekitar |
| EOS | *Egyptian Organization for Standardization and Quality* |
| ESMA | *Emirates Authority for Standardization and Metrology* |
| ETP | Pelan Transformasi Ekonomi |
| EU | Kesatuan Europah |
| FMC | *Forest Management Certification* |
| FRIM | *Forest Research Institute Malaysia* |
| FSMS | *Food Safety Management Systems* |
| FTA | *Free Trade Agreement* |
| GD | *Guidance Document* |
| GHG | Gas Rumah Hijau |
| GLP | *Good Laboratory Practice* |
| GRP | *Good Regulatory Practice* |
| HACCP | *Hazard Analysis and Critical Control Point* |
| HUSM | Hospital Universiti Sains Malaysia |
| IAF | *International Accreditation Forum* |
| IBS | Sistem Bangunan Industri |
| IDTF | *Integrated Drafting Task Force* |
| IEC | *International Electro-technical Commission* |
| IECex | Skim IEC untuk Pensijilan bagi Standard berkenaan Peralatan bagi Kegunaan di Kawasan Mudah Meletup |
| IEM | *Institution of Engineers Malaysia* |
| IKM | Institut Kimia Malaysia |
| ILAC | *International Laboratory Accreditation Cooperation* |
| ISC | Jawatankuasa Standard Industri |
| ISMS | Sistem Pengurusan Keselamatan Maklumat |
| ISO | *International Organization for Standardization* |
| IT | Teknologi Maklumat |
| ITC | *International Trade Centre* |
| JAKIM | Jabatan Kemajuan Islam Malaysia |
| JAS-ANZ | *Joint Accreditation System of Australia and New Zealand* |
| JISM | *Jordan Institution for Standards and Metrology* |
| KAED | Kuliah Seni Bina dan Rekabentuk Alam Sekitar |
| KUDU | Unit Rekabentuk Universal KAED |
| MATRADE | Perbadanan Pembangunan Perdagangan Luar Malaysia |
| MIBAS | Skim Akreditasi Badan-badan Pemeriksaan Malaysia |
| MIFB | *Malaysian International Food & Beverage Trade Fair* |
| MIHAS | *Malaysian International Halal Showcase* |
| MITI | Kementerian Perdagangan Antarabangsa dan Industri |
| MLA | *Multilateral Recognition Arrangements* |
| MOSTI | Kementerian Sains, Teknologi dan Inovasi Malaysia |
| MoU | *Memorandum of Understanding* |
| MPOB | *Malaysian Palm Oil Board* |
| MRA | *Mutual Recognition Arrangements* |
| MRM | Majlis Reka Bentuk Malaysia |
| MS | Standard Malaysia |
| MSDAM | Majlis Standard dan Akreditasi Malaysia |
| MSQH | *Malaysian Society for Quality in Health* |
| MTCP | Program Kerjasama Teknikal Malaysia |
| MTIB | Lembaga Perindustrian Kayu Malaysia |
| MyENC | Jawatankuasa Elektro-teknikal Kebangsaan Malaysia |
| MyGLPC | Jawatankuasa *Good Laboratory Practice* |
| MyNAC | Jawatankuasa Kebangsaan Akreditasi |

# SINGKATAN KATA (sambungan)

| | |
|---|---|
| MyNMTAC | Jawatankuasa Akreditasi Pengujian Perubatan Kebangsaan |
| MyNSC | Jawatankuasa Kebangsaan Standard |
| NATA | *National Association of Testing Authority* |
| NCCIE | Jawatankuasa Kebangsaan CIE |
| NEM | Model Ekonomi Baru |
| NGO | Badan-badan Bukan Kerajaan |
| NKRA | Bidang Keberhasilan Utama Kebangsaan |
| NSB | *National Standards Body* |
| OECD | *Organisation for Economic Cooperation and Development* |
| OHSAS | *Occupational Health & Safety Advisory Services* |
| OIC | *Organisation of Islamic Conference* |
| OSH | *Occupational Safety and Health* |
| PAC | *Pacific Accreditation Cooperation* |
| PC | Pensijilan Produk |
| PCS | Sistem Pensijilan Produk |
| PNGLAS | *Papua New Guinea Laboratory Accreditation Scheme* |
| PPIM | Persatuan Pengguna-Pengguna Islam Malaysia |
| PPUKM | Pusat Perubatan Universiti Kebangsaan Malaysia |
| PT | Ujian Kecekapan |
| PTB | *Physikalisch-Technische Bundesanstalt* |
| QMS | Sistem Pengurusan Kualiti |
| RISIS | Institut Penyelidikan Standard dalam Islam |
| RMKe-10 | Rancangan Malaysia Ke-10 |
| RMKe-9 | Rancangan Malaysia Ke-9 |
| SAC | Majlis Akreditasi Singapura |
| SAMM | Skim Akreditasi Makmal Malaysia |
| SASMO | *Syrian Arab Organization for Standardization and Metrology* |
| SASO | *Saudi Standards, Metrology and Quality Organization* |
| SC | *Specific Criteria* |
| SC | *Sub-Committee* |
| SCSC | *Sub-Committee on Standards and Conformance* |
| SDA | *Standards Development Agency* |
| SEG | *Standardisation Experts Group* |
| SEOM | *Senior Economic Official Meetings* |
| SIRIM | SIRIM Berhad |
| SMIDEC | *Small and Medium Industries Development Corporation* |
| SOM | *Senior Official Meetings* |
| SR | Tanggungjawab Sosial |
| ST&I | Sains, Teknologi dan Inovasi |
| STANDARDS MALAYSIA | Jabatan Standard Malaysia |
| Standards Users | Persatuan Pengguna-Pengguna Standard Malaysia |
| STR | *Specific Technical Requirement* |
| SWO | *Standards Writing Organisation* |
| TAF | *Taiwan Accreditation Foundation* |
| TBT | Halangan Teknikal Perdagangan |
| TC | Jawatankuasa Teknikal |
| TEEAM | Persatuan Eletrik dan Elekronik Malaysia |
| TMB | Lembaga Pengurusan Teknikal |
| TPO | *Trade Promotion Organisations* |
| TPP | *Trans Pacific Partnership* |
| TWG | Kumpulan Kerja Teknikal |
| UIAM | Universiti Islam Antarabangsa Malaysia |
| UKM | Universiti Kebangsaan Malaysia |
| UMMC | *University Malaya Medical Centre* |
| UMP | Universiti Malaysia Pahang |
| UNDP | *United Nations Development Programme* |
| USEPA | *United States Environmental Protection Agency* |
| USM | Universiti Sains Malaysia |
| WG | Kumpulan Kerja |
| WTO | Pertubuhan Perdagangan Dunia |
| YIM | Yayasan Inovasi Malaysia |

# ABBREVIATIONS

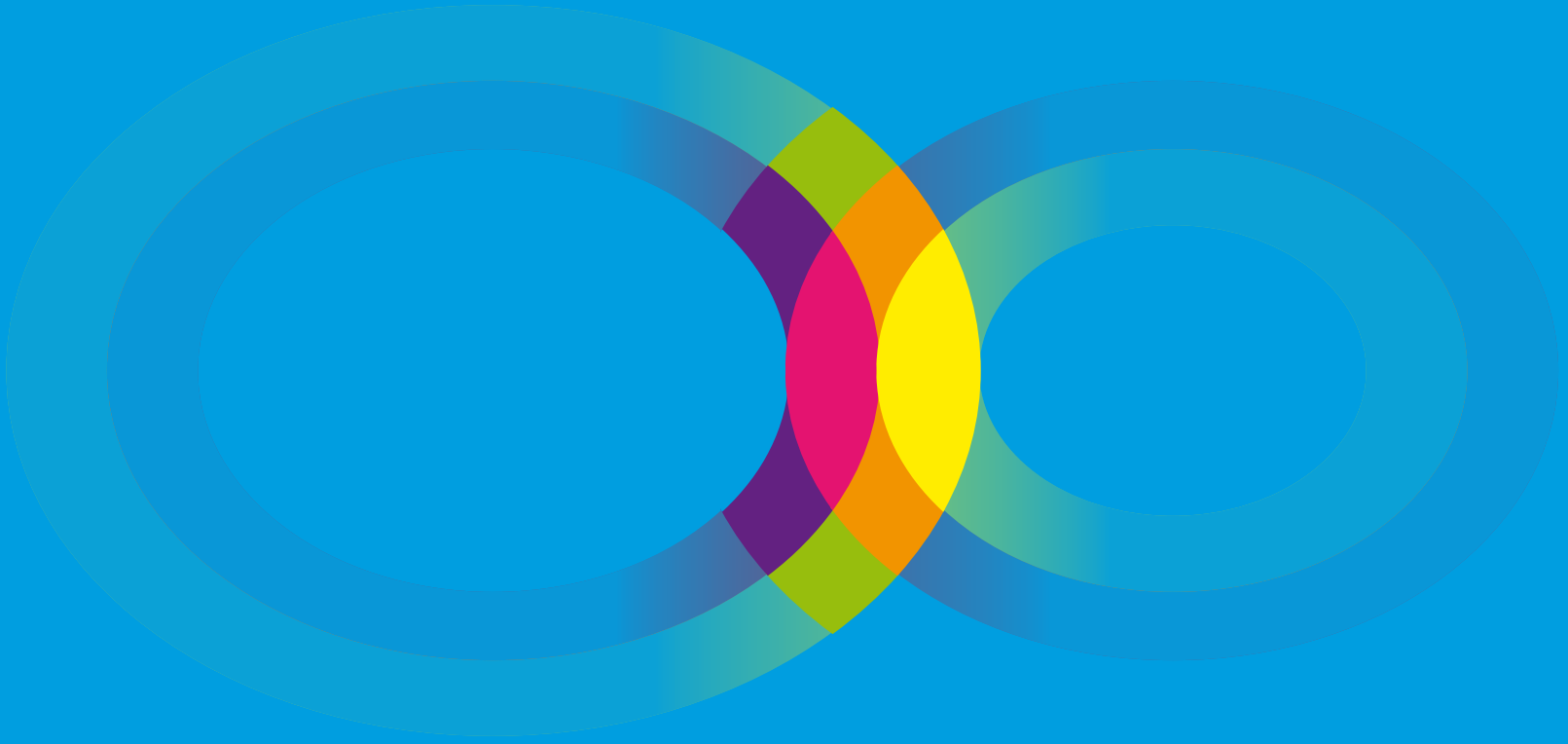
| | |
|---|---|
| 5S | Quality Environment Practices |
| 9MP | 9th Malaysia Plan |
| 10MP | 10th Malaysia Plan |
| ACB | Accreditation of Certification Bodies |
| ACCSQ | ASEAN Consultative Committee for Standards and Quality |
| AMDI | Advanced Medical & Dental Institute |
| APEC | Asia-Pacific Economic Cooperation |
| APLAC | Asia Pacific Laboratory Accreditation Cooperation |
| ASEAN | Association of South East Asian Nations |
| BS | British Standards |
| CB | Certification Bodies |
| CELS | Civil Engineering Laboratory Services |
| CIE | International Commission on Illumination |
| CMIS | Committee on Mandatory Industrial Standards |
| COP | Codes of Practice |
| COPOLCO | Committee on Consumer Policy |
| COMCEC | Economic and Commercial Cooperation of the Organisation of Islamic Conference |
| CP | Compliance Programme |
| CPTM | Commonwealth Partnership for Technology Management |
| Cyber Security | Cyber Security Malaysia |
| DPIM | Malaysian Islamic Chamber of Commerce |
| EMS | Environmental Management System |
| EOS | Egyptian Organization for Standardization and Quality |
| ESMA | Emirates Authority for Standardization and Metrology |
| ETP | Economic Transformation Plan |
| EU | European Union |
| FMC | Forest Management Certification |
| FRIM | Forest Research Institute Malaysia |
| FSMS | Food Safety Management Systems |
| FTA | Free Trade Agreement |
| GD | Guidance Document |
| GHG | Green House Gas |
| GLP | Good Laboratory Practice |
| GRP | Good Regulatory Practice |
| HACCP | Hazard Analysis and Critical Control Point |
| HUSM | *Hospital Universiti Sains Malaysia* |
| IAF | International Accreditation Forum |
| IBS | Industrial Building System |
| IDTF | Integrated Drafting Task Force |
| IEC | International Electro-technical Commission |
| IECex | IEC Scheme for Certification to Standards relating to Equipment for Use in Explosive Atmosphere |
| IEM | Institution of Engineers Malaysia |
| IIUM | International Islamic University Malaysia |
| IKM | Malaysian Institute of Chemistry |
| ILAC | International Laboratory Accreditation Cooperation |
| ISC | Industry Standards Committee |
| ISMS | Information Security Management Systems |
| ISO | International Organization for Standardization |
| IT | Information Technology |
| ITC | International Trade Centre |
| JAKIM | Department of Islamic Development Malaysia |
| JAS-ANZ | Joint Accreditation System of Australia and New Zealand |
| JISM | Jordan Institution for Standards and Metrology |
| KAED | Kuliyyah of Architecture and Environmental Design |
| KUDU | KAED Universal Design Unit |
| MATRADE | Malaysian External Trade Development Corporation |
| MIBAS | Malaysia Inspection Bodies Accreditation Scheme |
| MIFB | Malaysian International Food & Beverage Trade Fair |
| MIHAS | Malaysian International Halal Showcase |
| MITI | Ministry of International Trade and Industry |
| MLA | Multilateral Recognition Arrangements |
| MOSTI | Ministry of Science, Technology and Innovation |
| MoU | Memorandum of Understanding |
| MPOB | Malaysian Palm Oil Board |
| MRA | Mutual Recognition Arrangements |
| MRM | Malaysia Design Council |
| MS | Malaysian Standards |
| MSAC | Malaysian Standards and Accreditation Council |
| MSQH | Malaysian Society for Quality in Health |
| MTCP | Malaysian Technical Co-operation Programme |
| MTIB | Malaysian Timber Industry Board |
| MyENC | Malaysian Electro-technical National Committee |
| MyGLPC | Malaysian Good Laboratory Practice Committee |

# ABBREVIATIONS (continued)

| | |
|---|---|
| MyNAC | Malaysian National Accreditation Committee |
| MyNMTAC | Malaysian National Medical Testing Accreditation Committee |
| MyNSC | Malaysian National Standards Committee |
| NATA | National Association of Testing Authority |
| NCCIE | National Committee of the CIE |
| NEM | New Economic Model |
| NGO | Non-governmental Organisations |
| NKRA | National Key Result Areas |
| NSB | National Standards Body |
| OECD | Organisation for Economic Cooperation and Development |
| OHSAS | Occupational Health & Safety Advisory Services |
| OIC | Organisation of Islamic Conference |
| OSH | Occupational Safety and Health |
| PAC | Pacific Accreditation Cooperation |
| PC | Product Certification |
| PCS | Product Certification System |
| PNGLAS | Papua New Guinea Laboratory Accreditation Scheme |
| PPIM | *Persatuan Pengguna-pengguna Islam Malaysia* |
| PPUKM | Universiti Kebangsaan Malaysia Medical Centre |
| PT | Proficiency Testing |
| PTB | *Physikalisch-Technische Bundesanstalt* |
| QMS | Quality Management System |
| RISIS | Research Institute of Standards in Islam |
| SAC | Singapore Accreditation Council |
| SAMM | Laboratory Accreditation Scheme of Malaysia |
| SASMO | Syrian Arab Organization for Standardization and Metrology |
| SASO | Saudi Standards, Metrology and Quality Organization |
| SC | Specific Criteria |
| SC | Sub-Committee |
| SCSC | Sub-Committee on Standards and Conformance |
| SDA | Standards Development Agency |
| SEG | Standardisation Experts Group |
| SEOM | Senior Economic Official Meetings |
| SIRIM | SIRIM Berhad |
| SMIDEC | Small and Medium Industries Development Corporation |
| SOM | Senior Official Meetings |
| STR | Specific Technical Requirement |
| SR | Social Responsibility |
| ST&I | Science, Technology and Innovation |
| STANDARDS MALAYSIA | Department of Standards Malaysia |
| Standards Users | Malaysian Association of Standards Users |
| SWO | Standards Writing Organisation |
| TAF | Taiwan Accreditation Foundation |
| TBT | Technical Barriers to Trade |
| TC | Technical Committee |
| TEEAM | The Electrical and Electronics Association of Malaysia |
| TMB | Technical Management Board |
| TPO | Trade Promotion Organisations |
| TPP | Trans Pacific Partnership |
| TWG | Technical Working Group |
| UIAM | *Universiti Islam Antarabangsa Malaysia* |
| UKM | *Universiti Kebangsaan Malaysia* |
| UMMC | University Malaya Medical Centre |
| UMP | *Universiti Malaysia Pahang* |
| UNDP | United Nations Development Programme |
| USEPA | United States Environmental Protection Agency |
| USM | *Universiti Sains Malaysia* |
| WG | Working Group |
| WTO | World Trade Organisation |
| YIM | Innovation Foundation Malaysia |

Concept and Design by Masmode Sdn Bhd

# ANGGOTA KERJA STAFF OF STANDARDS MALAYSIA



**Jabatan Standard Malaysia**
**Department of Standards Malaysia**

Century Square, Level 1 & 2
Block 2300, Jalan Usahawan
63000 Cyberjaya
Selangor Darul Ehsan.
Tel: 603-8318 0002
Fax: 603-8319 3131
Website: www.standardsmalaysia.gov.my