CREAM
CONSTRUCTION RESEARCH INSTITUTE OF MALAYSIA

2026 CREAM









Strengthening Partnerships, Shaping the Future







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"YOUR TRUSTED PARTNER IN RESEARCH AND CONSTRUCTION SOLUTIONS"



Vision

To make CREAM globally recognized as the leading institute for Research and Development (R&D) that drives quality, innovation, technology and skills towards achieving sustainability in the construction industry.

Mission

To meet the strategic needs of Research and Development in the Malaysian construction industry. CREAM is also committed to build partnerships with the industry's stakeholders and researchers while exploring and encouraging the development of a knowledge-based industries as well as ready to meet current demands and challenging changes.

About Us

Construction Research Institute of Malaysia (CREAM) was established on 26 March 2004 as a Company Limited by Guarantee (SBMJ) under the Act Company 1965. CREAM became fully operational on January 1, 2006. Establishment of CREAM is to be the research arm of the Construction Industry Development Board (CIDB) Malaysia to encourage, promote and implement activities research and development (R&D) related to the national construction industry with Section 4(c), CIDB Act 1994 (Act 520). With the ability of knowledge and existing expertise, CREAM actively cooperates with parties interested in producing research that will benefit the sector construction. At the same time, CREAM also supports the development of the industry construction in a better direction through the quality and integrity of building materials when also offers testing, evaluation and certification services to industry players. CREAM will continue to be proactive in being active and reinventing the way we in doing something, to keep giving the best to all parties and always responsive to our customers.



What We Offer

- Research and Development
- Industry Consultancy and Engagement
- Lab Testing
- Product Certification
- Assessments - QLASSIC, SHASSIC, MyCREST and Sustainable INFRASTAR
- Certificate of Approval
- Inspection and Sampling
- Contractor's Quality Management System (CQMS)
- Forensic Investigation
- Technical Opinion
- Journal Publication

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A MINISTERIAL VISIT TO MKRM SABAH WITH PURPOSE AND VISION

Kota Kinabalu, Sabah | 21 July 2026 – Construction Research Institute of Malaysia (CREAM) was honoured to welcome YB Dato Sri Alexander Nanta Linggi, Minister of Works Malaysia, during his official visit to Makmal Kerja Raya Malaysia (MKRM) Sabah. The visit was accompanied by representatives from the Ministry of Works (KKR), Jabatan Kerja Raya (JKR), JKR Sabah and JKR Sarawak, reflecting the importance of strengthening coordination and technical collaboration across Malaysia's public works and construction ecosystem.

The visit provided an opportunity for the Minister and the accompanying delegation to gain a closer insight into the role, capabilities and contribution of MKRM in supporting the nation's construction and infrastructure development. As a technical and testing facility under CREAM, MKRM plays an important role in providing reliable testing, technical services and expertise to support the quality, performance and compliance of construction materials and infrastructure-related works.

During the visit, the delegation was briefed on the functions and capabilities of MKRM Sabah, including its role in testing, technical evaluation, research and knowledge sharing. The engagement also highlighted the importance of having strong technical institutions and testing facilities to support evidence-based decision-making, quality assurance and continuous improvement within the construction sector.

The visit further served as a platform for knowledge exchange and strategic discussions on the evolving needs of Malaysia's infrastructure industry. With the construction sector facing increasingly complex challenges — including the need for greater resilience, sustainability, technological advancement and improved productivity — collaboration between government agencies, research institutions and industry stakeholders remains essential.

The presence of representatives from KKR, JKR, JKR Sabah and JKR Sarawak also underscored the importance of strengthening linkages between technical expertise and infrastructure delivery, particularly in addressing the unique requirements and development needs of Sabah and the wider East Malaysian region.

For CREAM, the visit represents more than an engagement at one of its laboratory facilities. It reflects the broader role of research, testing and innovation in supporting the Ministry of Works and its agencies in delivering safe, durable, sustainable and high-quality infrastructure for the nation.

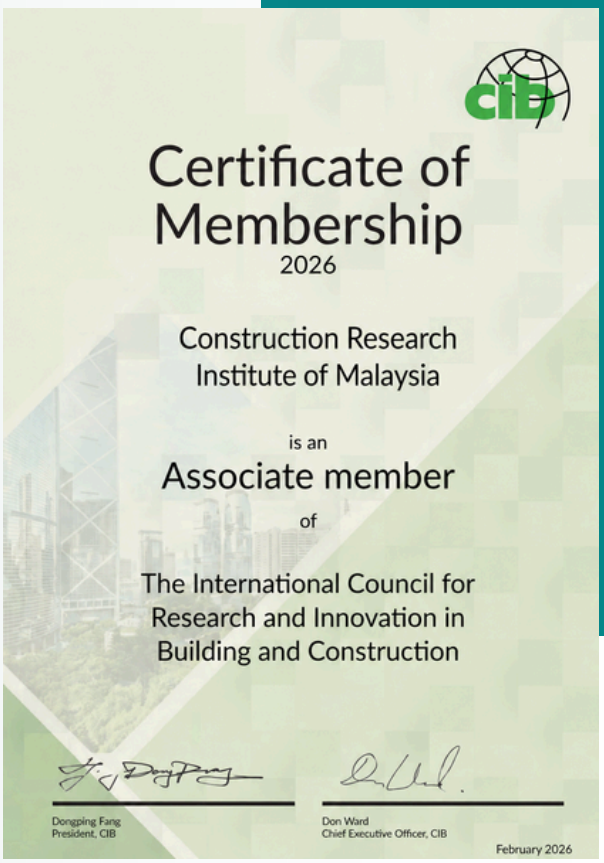
The visit also reinforces CREAM's commitment to continuously enhance its technical capabilities and foster strategic partnerships with government agencies, industry players, academia and other stakeholders. Through stronger collaboration and knowledge sharing, CREAM aims to contribute towards the development of innovative solutions and technical practices that can respond to the changing demands of the construction industry.

CREAM looks forward to further strengthening its collaboration with KKR, JKR, JKR Sabah and JKR Sarawak, contributing its expertise and technical capabilities towards a more resilient, sustainable, innovative and competitive construction industry in Malaysia.





CREAM STRENGTHENS GLOBAL CONNECTIONS THROUGH CIB ASSOCIATE MEMBERSHIP



Construction Research Institute of Malaysia (CREAM) has reached an important milestone in its pursuit of research excellence and innovation by becoming an Associate Member of the International Council for Research and Innovation in Building and Construction (CIB), a leading international network dedicated to advancing research and innovation in the built environment.

This membership marks a significant step in CREAM's commitment to strengthening international engagement, broadening research perspectives and contributing to the sustainable development of Malaysia's construction industry.

Connecting Malaysian Research with Global Expertise

The construction industry continues to evolve in response to emerging technologies, sustainability demands and the need for more efficient and resilient infrastructure. Addressing these challenges requires continuous research, knowledge exchange and collaboration across national and international boundaries.

Through its CIB Associate Membership, CREAM gains opportunities to connect with leading researchers, industry experts and research institutions worldwide. This international network provides a platform for exchanging knowledge, sharing best practices and exploring innovative approaches to construction-related challenges.

The membership also opens avenues for CREAM to participate in international working commissions and research networks, enabling the Institute to engage with current developments, emerging research priorities and global perspectives in construction research and innovation.

Bringing Global Insights to Malaysia

Beyond strengthening international connections, CREAM's membership in CIB reflects its aspiration to translate global knowledge into meaningful benefits for Malaysia's construction sector.

Engagement with the international research community can help foster new ideas, encourage collaborative research initiatives and support the adoption of innovative practices suited to the local industry. These opportunities align with

CREAM's role in advancing construction research and supporting the industry's transition towards greater productivity, quality and sustainability.

By connecting Malaysian research capabilities with international expertise, CREAM aims to contribute to a more competitive, resilient and forward-looking construction ecosystem.

Advancing a Shared Vision for the Future

CREAM's Associate Membership in CIB represents more than international recognition; it is an opportunity to strengthen its contribution to the global construction research community while bringing valuable insights back to Malaysia.

As the industry navigates the challenges and opportunities of a rapidly changing built environment, collaboration will remain essential in turning research into practical solutions and driving meaningful progress.

Through this international engagement, CREAM reaffirms its commitment to research excellence, knowledge sharing and innovation in support of a sustainable future for Malaysia's construction industry.





CREAM AND IEM STRENGTHEN STRATEGIC COLLABORATION THROUGH MOU EXCHANGE CEREMONY

Construction Research Institute of Malaysia (CREAM) and The Institution of Engineers, Malaysia (IEM) formalised their commitment to strengthening collaboration through the exchange of a Memorandum of Understanding (MoU) on 29 September 2026.

The exchange ceremony brought together key representatives from both organisations, with CREAM represented by Ts. Syed Hazni Abd Gani, Chief Executive Officer, and Mr. Hasry Harun, CREAM Board Member. Representing IEM were Ir. Yau Chau Fong, President, and Ir. Prof. Dr. Tan Chee Fai, Vice President.

The MoU provides a platform for CREAM and IEM to strengthen strategic cooperation and explore opportunities for collaboration that leverage the expertise and networks of both organisations. The areas of cooperation include engineering testing, construction methodologies, research and innovation, certification and assessment, as well as the joint organisation and support of events, seminars, workshops and conferences.

The partnership also aims to promote knowledge, technical competency and awareness within the engineering and construction community, while supporting the advancement of quality, safety and sustainable practices in the industry.

Through this collaboration, CREAM and IEM look forward to creating greater opportunities for knowledge exchange, technical engagement and industry development. The partnership reflects the shared commitment of both organisations to contribute towards the advancement of engineering, science and technology, and to support the continued growth and development of Malaysia's construction industry.

The MoU marks an important step towards building stronger institutional linkages and fostering meaningful collaboration between CREAM and the professional engineering community.



CREAM SHOWCASE CONSTRUCTION ASSESSMENT SERVICES AT INTERNATIONAL SUSTAINABILITY WEEK (ISW) 2026

Kuala Lumpur | 9-10 September 2026 – The Construction Research Institute of Malaysia (CREAM), a subsidiary of the Construction Industry Development Board (CIDB), participated as an exhibitor at International Sustainability Week (ISW) 2026, held from 9–10 September 2026 at the Malaysia International Trade and Exhibition Centre (MITEC), Kuala Lumpur. The event provided an opportunity for CREAM to showcase its role and assessment services in supporting Malaysia's construction industry.

A notable highlight was the visit to the CREAM booth by the Minister of Natural Resources and Environmental Sustainability, Dato' Sri Arthur Joseph Kurup, accompanied by GreenRE Sdn Bhd Chairman, Datuk Seri F D Iskandar Mohamed Mansor, and Qube Integrated Malaysia Executive Chairman, Richard Teo.



The delegation was welcomed by CREAM Chief Executive Officer, Ts. Syed Hazni Abd Gani, who provided an overview of CREAM's assessment services, including QLASSIC, SHASSIC, Sustainable INFRASTAR and MyCREST. The briefing highlighted CREAM's contribution to assessing quality, safety, sustainability, and performance within the construction industry.

The visit provided an opportunity for CREAM to engage with key industry stakeholders and highlight its continued commitment to supporting quality, competency, sustainability, and professionalism within Malaysia's construction industry, in line with the shared goal of building a net-zero future.







CIC 2026: POWERING THE FUTURE OF CONSTRUCTION

By Ahmad Shahir Mohamad

The 3rd Construction Industry Congress (CIC) 2026, organised by the Construction Research Institute of Malaysia (CREAM) from 29 September to 1 October 2026 in Kuala Lumpur, successfully brought together industry professionals, researchers, academics and key stakeholders under the theme "Powering the Future of Construction."

The three-day congress provided a platform for knowledge sharing, industry engagement and collaboration, with discussions focusing on digitalisation, innovation, sustainability and resilient infrastructure.

Throughout the congress, participants gained insights from industry leaders and experts through keynote addresses, special sessions, industry sharing sessions and academic paper presentations. The discussions highlighted emerging trends and challenges in the construction sector, while exploring how technology, research and innovation can contribute to a more productive and future-ready industry.

One of the key highlights was the Memorandum of Understanding (MoU) between CREAM and the Institution of Engineers, Malaysia (IEM). The collaboration aims to strengthen cooperation in areas including technical competency, knowledge sharing, engineering testing, construction methodologies, research and innovation, certification and assessment, as well as quality, safety and sustainability.

CIC 2026 also placed emphasis on strengthening the connection between research and industry through its Academic Paper Presentation programme, with more than 50 research papers presented throughout the congress. The sessions provided researchers and academics with an avenue to share their work and engage with industry practitioners on issues relevant to the future of construction.

With the successful conclusion of CIC 2026, CREAM remains committed to advancing construction research, innovation and technical excellence while supporting the development of a smarter, more sustainable and resilient construction industry.

Looking ahead, CREAM will continue this momentum through future initiatives, including the Digital Construction Summit 2027, further strengthening the platform for knowledge exchange and digital transformation within Malaysia's construction sector.








3RD CONSTRUCTION INDUSTRY CONGRESS (CIC 2026)
Powering the Future of Construction
29 Sept - 1 Oct 2026
Sharing Session 1:
YBhg. Dato' Ir. Ts. Hj. Mohd
Chief Executive Officer
Ikram Works Sdn. Bhd.






Energy Transition as a Catalyst to Next Era of Construction Industry
By
Sabar Md Hashim
Principal Advisor
eCEOs
Reuters


Powering the Future of Construction
29 Sept - 1 Oct 2026
Sharing Session 4:








CONSTRUCTION
INDUSTRY CONGRESS
CIC 2026)
Powering the Future of Construction
Sept - 1 Oct 2026
CERTIFICATE

THE STRATEGIC ROLE OF TESTING LABORATORIES IN ADVANCING MALAYSIA'S RAILWAY MRO ECOSYSTEM

Ts. Syaza Nabilla Mohd Suhaimi & Nurul Najiha Mohd Azman

Introduction

Malaysia's railway industry is entering a new phase of development where asset reliability, localization, and sustainable maintenance are becoming national priorities. Emphasize on the future of railway maintenance depends on transitioning from reactive maintenance toward data-driven asset management, supported by Maintenance, Repair and Overhaul (MRO), vendor development, and testing & certification ecosystems.

Malaysia's Land Public Transport Master Plan (LPTMP) is the blueprint that aimed to increase public transport usage from roughly 10–20% to 40% of all urban commutes in Greater Kuala Lumpur/Klang Valley by 2030.

Stated in the National Transport Policy (NTP) 2019–2030, Strategy 4.2 to "Prioritise Public Transport Network as Fundamental Structure in Charting Out Sustainable Spatial and Transportation Growth in Urbanised Areas." This strategy is specifically about integrating urban/spatial planning with public transport development.

In support of Malaysia's NTP and the Thirteenth Malaysia Plan (RMK-13) 2026–2030, which emphasise the integration and expansion of public transport infrastructure through Transit-Oriented Development (TOD), testing laboratories serve as the technical foundation for validating the safety, quality, performance and compliance of railway components throughout their service life. By providing independent and standards-based testing and technical evaluation, laboratories support the development, commissioning, operation, maintenance and upgrading of reliable railway infrastructure, thereby contributing to the safety, efficiency and sustainability of TOD and Malaysia's broader public transport network.

The Role of Testing Laboratories in Railway Asset Maintenance

Several critical challenges affecting rolling stock maintenance, including ageing fleets, spare parts availability, reliability issues, increasing maintenance costs, shortage of skilled personnel, and digital transformation. These challenges cannot be addressed solely through maintenance operations. They require scientific verification of component performance.

A railway testing laboratory provides independent technical evidence by:

- Evaluating material durability and structural integrity
- Verifying compliance with national and international standards
- Supporting failure investigation and root-cause analysis
- Validating locally manufactured replacement components
- Generating reliable data for predictive maintenance models

This transforms maintenance decisions from experience-based practices into evidence-based engineering.

Supporting Reliability-Centred and Predictive Maintenance

We can set Reliability-Centred Maintenance (RCM) as the preferred methodology for maximizing safety while optimizing maintenance resources. RCM begins by identifying critical functions, analysing failure modes, and selecting appropriate maintenance strategies.

Testing laboratories contribute directly to every stage of the RCM process. For example, laboratory testing can determine whether wheel, axle, brake, suspension, or aluminium structural components have deteriorated due to fatigue, corrosion, wear, or environmental exposure before catastrophic failure occurs.

In predictive maintenance, sensor data indicates when deterioration may be occurring, while laboratory analysis confirms why it occurs and how the component should be managed.

The Testing Laboratory Within the MRO Ecosystem

Proposed MRO engagement model involves government agencies, operators, original equipment manufacturers (OEM)s, rail technology companies, and local vendors. Testing and certification form one of the core capability pillars supporting this ecosystem. Rather than functioning as a standalone facility, the laboratory becomes the technical bridge between:

- Government — ensuring regulatory compliance and public safety.
- Rail operators — validating maintenance quality and asset performance.
- OEMs — verifying component specifications and warranty investigations.
- Local manufacturers — qualifying domestically produced railway components.
- Research institutions — developing innovative materials and testing methods.

Driving Localization Through Testing & Certification

A major objective of the Rail Industry Development Program (RIDP) is increasing localization of railway components and developing competitive Malaysian vendors. However, localization is impossible without technical validation.

Testing laboratories support the Vendor Development Program by qualifying products before they enter operational service. Hence, reduces dependence on foreign OEMs while increasing confidence in locally manufactured components.

Vendor Development Stage	**Laboratory Contribution**
Product design	Material characterization
Prototype development	Performance testing
Manufacturing	Quality verification
Certification	Standards compliance testing
Operational deployment	Failure investigation & monitoring



Research, Standards and National Competitiveness

Accredited laboratories contribute by:

- Developing test methods for emerging railway technologies
- Supporting Malaysian Standards (MS) and international standards adoption
- Participating in inter-laboratory validation studies
- Providing technical evidence for certification bodies
- Enabling commercialization of innovative railway products

For institutions such as CREAM, specifically Makmal Kerja Raya Malaysia (MKRM), this positions the laboratory as more than a testing facility. Which becomes a national technical reference centre supporting engineering excellence and industrial innovation.

Future Direction: From Compliance to Strategic Asset Intelligence

Future Direction: From Compliance to Strategic Asset Intelligence
Ensuring successful railway maintenance requires collaboration between operators, government, academia, OEMs, and industry. Testing laboratories provide the objective engineering evidence that connects these stakeholders and enables informed decision-making.

Through integrating advanced testing capabilities with digital asset management, predictive maintenance, and vendor certification, Malaysia can achieve:

- Improved railway safety and reliability
- Extended service life of rolling stock assets
- Increased localization of railway components
- Reduced lifecycle maintenance costs
- Stronger international competitiveness within the ASEAN railway market

Conclusion

Testing laboratories are no longer merely facilities for compliance testing. We are strategic enablers of the Railway MRO ecosystem. As Malaysia advances its Rail Industry Development Program, laboratories such as MKRM can play a pivotal role in validating materials, supporting predictive maintenance, and accelerating localization initiatives. Through scientific testing and accredited certification, they provide the technical confidence required to build a resilient, safe, and internationally recognized railway industry.






PROGUARD


NOTIS
PELAWAT
SHIMADZU
CAUTION
TEST IN
PROGRESS

BUILDING TRUST THROUGH TECHNOLOGY: THE CREAM–MYCRS JOURNEY TOWARDS SMARTER CONCRETE TESTING

Ts. Mohd Azizi Arshad

For most people, concrete testing is a routine laboratory activity that takes place far from public attention. Yet behind every bridge, highway, hospital, airport, and iconic national landmark stands a robust quality assurance process that determines whether a structure will perform safely throughout its design life.

In Malaysia, one organisation took a bold step toward modernising this process long before digitalisation became a global industry buzzword. Through its testing division, Makmal Kerja Raya Malaysia (MKRM), the Construction Research Institute of Malaysia (CREAM) pioneered the use of Radio Frequency Identification (RFID) technology in concrete cube testing and established one of the country's earliest examples of digital construction quality management.

A Vision Ahead of Its Time

In 2009, CREAM, in collaboration with Jabatan Kerja Raya (JKR) and Malaysian Institute of Microelectronic Systems (MIMOS), with support from CIDB Malaysia, introduced RFID-enabled concrete cube testing at MKRM. The initiative represented a significant shift from conventional paper-based testing and reporting processes toward a fully digitalised approach.

The objective was simple yet transformative: to improve traceability, increase transparency, accelerate reporting, and reduce opportunities for data manipulation throughout the concrete testing lifecycle. Through RFID technology, every concrete cube could be uniquely identified and tracked from casting at site through laboratory testing and final reporting.

At a time when Industry 4.0, internet of things or cloud computing concepts had yet to enter mainstream construction discourse in Malaysia, CREAM through MKRM has already demonstrated how digital technologies could improve quality assurance in construction materials testing.

Delivering Results on Landmark Projects

The true measure of innovation lies not in laboratory demonstrations but in practical implementation. MKRM's RFID system was successfully deployed on three major government projects with well over 13,000 concrete cubes tested, proving its effectiveness in real-world construction environments.

The achievement demonstrated that digital testing technologies were not only technically feasible but also commercially viable within Malaysia's construction ecosystem.

Why RFID Changed the Game

Traditional concrete cube testing relies heavily on manual identification, record keeping, and document management. While proven and widely accepted, the process is often vulnerable to administrative errors, misplaced records, delayed reporting, and challenges in maintaining complete traceability throughout a project's lifecycle.

RFID technology introduced several significant advantages:

- Unique identification of every test specimen.
- Faster retrieval of testing information.
- Improved traceability from site sampling to final test results.
- Secure digital storage of records.
- Reduced reliance on manual data entry.
- Better accessibility of information to project stakeholders.
- The RFID-IoT approach enabled contractors, consultants, and clients to obtain concrete test results in a faster and more secure manner while reducing the risk of irregularities in testing outcome.

For project owners managing high-value infrastructure developments, such benefits translate directly into better governance, improved quality control, and greater confidence in construction outcomes.

The Evolution Toward Industry 4.0

The industry landscape has evolved considerably since then. Today, the advancement of technologies such as artificial intelligence and real-time analytics are redefining construction quality management worldwide.

Recognising these potentials CREAM together with MYCRS Sdn Bhd initiated a proposal to revive and modernise the concept using contemporary RFID and IoT technologies. The collaboration aims to further expand digital concrete testing capabilities into future construction developments, including private sector projects.

Reviving a Proven Innovation

The recently signed Memorandum of Understanding between CREAM and MYCRS Sdn Bhd seeks to jointly validate the Malaysia Concrete Recognition System (MYCRS), an upgraded digital platform for concrete testing and quality assurance.

The collaboration includes upgrading the existing hardware and software, research activities, system validation and knowledge transfer.

What It Means for the Construction Industry

The significance of this initiative extends far beyond a single testing machine.

As construction projects become larger, more complex, and increasingly data-driven, stakeholders demand greater transparency and accountability in quality assurance processes. Digital concrete testing aligns directly with these expectations.

The upgraded RFID-IoT ecosystem offers the potential for:

- Real-time access to testing information.
- Enhanced traceability throughout the supply chain.
- Improved laboratory efficiency.
- Faster turnaround of test reports.
- Reduced administrative workload.
- Better integration with digital project delivery systems.
- Greater confidence in quality verification processes. Most importantly, it supports the broader digital transformation agenda currently taking place across the construction sector.

Leading the Next Chapter

Perhaps the most compelling aspect of the story is that Malaysia is not starting from scratch.

Long before digital twins, cloud platforms, and smart construction became industry priorities, MKRM had already demonstrated the value of digitalising concrete quality inspection through RFID technology. The successful testing of more than 13,000 concrete cubes across landmark national projects stands as evidence of that achievement.

Today, through the collaboration between CREAM and MYCRS Sdn Bhd, that pioneering spirit is being renewed. The initiative represents not merely the revival of an old system, but the evolution of a proven concept into a modern Industry 4.0 solution capable of supporting the future needs of Malaysia's construction sector.

As the industry continues its journey toward smarter, more connected construction practices, MKRM's early work serves as a reminder that innovation is not always about creating something entirely new. Sometimes, it is about building upon a proven foundation and transforming a pioneering idea into the standard for the future.





SETTING TIME AND SOUNDNESS OF CEMENT: WHY THEY MATTER IN CONSTRUCTION

ChM. Siti Aishah Ishak & Masturina Bohi

Cement is the key for the binding material in concrete. Its quality has direct influence on the performance and durability of any concrete structure. Before cement is used for construction, it must undergo a series of laboratory tests to verify the results so that it can meet the requirement of the standard.

One of the most important tests for cement are the setting time and soundness tests, which are carried out in accordance with MS EN 196-3: Methods of Testing Cement – Part 3: Determination of Setting Times and Soundness.

These types of tests provide valuable information regarding the behaviour of cement once it mixed with water. Once water is added to cement, a chemical reaction known as hydration starts. As hydration progresses, cement paste will gradually lose its plasticity and eventually hardens.

This setting time test measures how long this process will take under controlled laboratory conditions and the workability of a cement paste, while the soundness test evaluates whether the hardened cement will remain dimensionally stable throughout its service life. Both tests help to ensure that the cement is suitable for producing durable and reliable concrete.

SETTING TIME TEST

Setting time can be categorize into two different tests; initial and final setting time. Initial setting time indicates the time for cement paste to starts losing its workability while final setting time shows the time for cement paste to hardened and no longer workable. This is important for industry players as they needed to consider the timing of transporting concrete from batching plant to construction sites, compacting and finishing the concreting works before concrete starts to harden.

A cement with a known setting time allows construction players to plan efficiently and reduce the risk of defects caused by early or delayed set of concrete. Setting time can also be influenced by several factors, including the composition of the cement, water content, temperature and the conditions under which the test or construction activity is carried out. Therefore, laboratory determination under controlled conditions provides a consistent way of assessing the setting characteristics of cement before it is used in construction.

SOUNDESS TEST

Meanwhile, soundness test focuses on the ability of cement to retain its volume after its set and hardened. If cement undergo excessive expansion, over time it may cause concrete to loss its durability thus leading to cracks. The causes of unsoundness of cement typically from the presence of excessive calcium oxide and magnesium oxide which does not react completely during manufacturing process. Soundness is important because some problems may only become noticeable after the cement has hardened. Therefore, checking soundness in the laboratory provides an early indication of the volume stability of the cement.

TEST PROCEDURES

Determination of setting time and soundness is carried out in accordance with MS EN 196-3 using specialised laboratory equipment under controlled conditions.

Before these tests can proceed, a standard consistence of cement paste is required. This paste is prepared by mixing cement with distilled water using mixer. A standard plunger is used to determine whether the standard consistence of a paste achieved. Once standard paste is achieved, it is placed inside the Vicat Mould to proceed test.

Setting time is determined by using Vicat Apparatus fitted with a standard initial or final needle. This needle is to be penetrate the cement paste at regular intervals. Initial setting time is reached when the initial needles penetrate to 6 ± 3mm from the base of the Vicat mould. While for final setting time, the needle is to be replaced with final setting needle and final setting is reached when needle penetrates only 0.5mm into the paste. At this stage, cement paste already become rigid and the ring around final needle fails to leave mark on the paste.

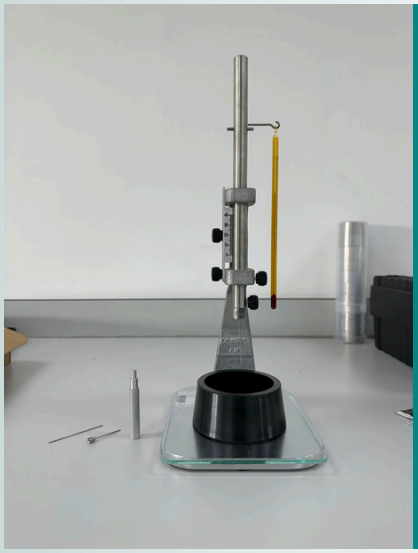


Figure 1: A vicat apparatus includes, mould, standard plunger, initial needle, and final needle for testing of setting time.

For soundness test, the standard consistence paste is filled in the Le Chatelier Mould. This paste is cured in humidity chamber for 24 hours, heated gradually in water until boiling and maintained at boiling temperature for a period of 3 hours. The distance of indicator points is measured in between all conditions. The difference of the results when cured for 24 hours and when cooled down after boiling for 3 hours represents the expansion of cement paste.

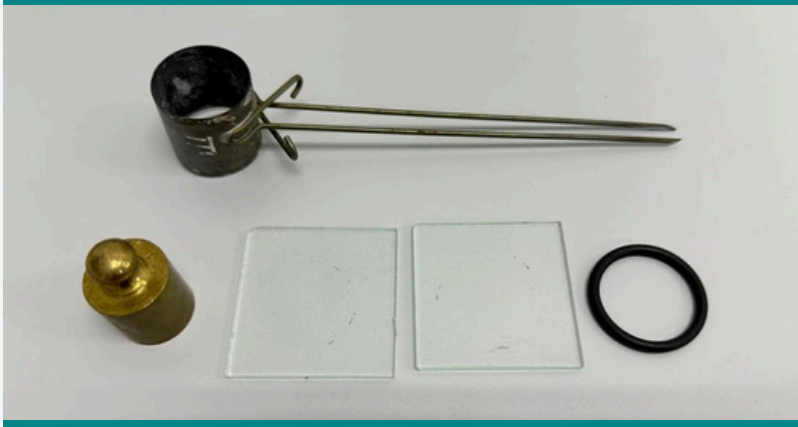


Figure 2: Le Chatelier Apparatus includes mould, glass plates, rubber band and brass weight.

CONCLUSION

Setting time and soundness tests are two fundamental quality control tests that help to ensure cement performs as expected during construction and throughout the life of a structure. By evaluating workability and volume stability, these tests allow engineers and contractors to identify potential issues before the cement is incorporated into concrete. Together with other cement testing methods, they contribute to safer, more durable, and higher-quality construction projects.

Setting time and soundness testing, together with a comprehensive range of cement testing services, is available at Makmal Kerja Raya Malaysia (MKRM). For further information on our laboratory capabilities, please contact your nearest MKRM branch.

TENSILE TESTING OF MECHANICAL SPLICES FOR REINFORCING BARS

Ts. Nor Azila Binti Maulihasan & ChM. Hassanain Hafiz Bin Mohd Asnan

Mechanical splices connect two reinforcing bars using a coupler that transfers axial force from one bar to the other. Since the coupler forms part of the load-transfer system, its performance must be verified to ensure that the connection does not reduce the required strength and ductility of the reinforcement.

ISO 15835-1:2018 specifies the performance requirements for reinforcement couplers, while ISO 15835-2:2018 provides the corresponding test methods.

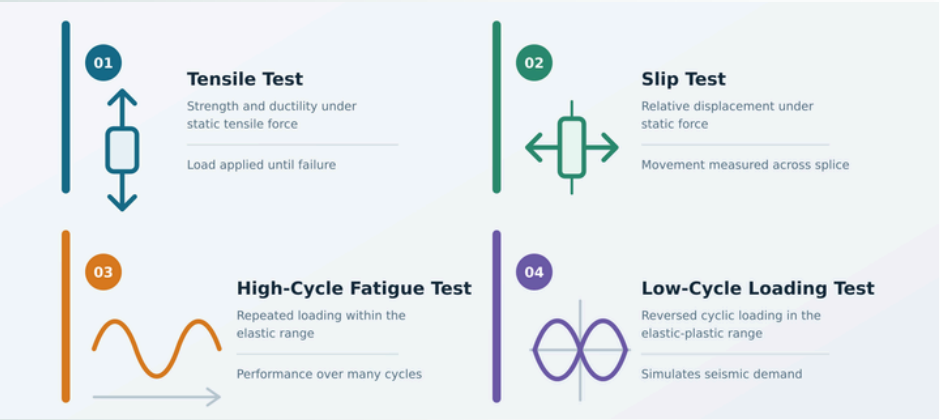


Figure 1: Types of testing under ISO 15835-2:2018

Tensile and slip tests evaluate the performance of mechanical splices under static forces. High-cycle fatigue testing applies to couplers subjected to repeated elastic loading, while low-cycle loading testing evaluates couplers intended for seismic applications.

This article focuses on tensile testing, which is used to determine the strength and ductility of a mechanical splice.

Category designation	Properties tested	Requirement subclauses in this document	Testing subclauses in ISO 15835-2
B (Basic)	Strength, ductility and slip under static forces	5.3, 5.4	5.1, 5.2, 5.3, 5.4
F (Fatigue)	As for B + High-cycle fatigue	As for B + 5.5	As for B + 5.5
S (Seismic)	As for B + Low-cycle loading	As for B + 5.6	As for B + 5.6

[a] If the coupler in a mechanical splice has been tested according to both class F and class S, it can be classified as FS.

Figure 2: ISO 15835-1:2018 classifies mechanical splices into three categories based on their performance requirements.

Category B establishes the basic requirements for mechanical splices. Category F includes additional high-cycle fatigue testing, while Category S includes additional low-cycle loading testing. A mechanical splice tested for both Categories F and S may be designated as Category FS.

Regardless of category, strength, ductility and slip under static forces remain the basic properties used to assess mechanical splice performance.

Tensile Test

The specimen must have sufficient free length between the grips to allow the percentage total elongation at maximum force, Agt, to be measured. The minimum free length is 400 mm + L, where L is the mechanical splice length.

Before testing, gauge-length markings are made on the reinforcing bars outside the mechanical splice. The specimen is then subjected to axial tensile force until failure.



Figure 3: Tensile Test for Mechanical Splices

The test results are evaluated based on tensile strength, ductility, and failure location. Tensile strength confirms whether the mechanical splice can transfer the required force without premature failure.

Ductility is assessed using Agt measured on the reinforcing bar outside the mechanical splice. The measured value shall be at least 70% of the specified Agt value. Where no value is specified, a minimum Agt of 3% shall be achieved.
The strength, ductility and failure location are evaluated together to determine the overall performance of the connection.

Mechanical splice testing in accordance with ISO 15835-2:2018 is available at all MKRM branches. By evaluating the overall tensile performance of the mechanical splice, the testing provides objective technical evidence for product verification, quality assurance and compliance with project requirements. For testing enquiries and arrangements, please contact the nearest MKRM branch or email general@cream.my.



EXTENDING ACCREDITATION, ELEVATING EXCELLENCE

MS ISO/IEC 17025:2017 Accreditation Scope Extension Workshop

10-12 July 2026 | Cyberview Resort and Spa, Cyberjaya

By Ir. Ts. Ahmad Hazim Abdul Rahim, Rohani Mokhtar, Nor Ain Syanieza Mahayuddin & Rabi'atul Adawiyah Yusoff

3	8	3	19
Days	Testing scopes	MKRM locations	Participants

CREAM marked another important milestone in strengthening laboratory excellence through the successful organisation of the MS ISO/IEC 17025:2017 Accreditation Scope Extension Workshop, held from 10 to 12 July 2026 at Cyberview Resort & Spa.

The workshop brought together management representatives, technical personnel and secretariat members from Makmal Kerja Raya Malaysia (MKRM) Kuala Lumpur, Sabah and Sarawak with a shared objective of enhancing accredited testing capabilities and preparing for future accreditation scope extension applications.

A key outcome of the workshop was the successful finalisation of eight proposed additional testing scopes across the MKRM laboratory network. The proposed scopes cover a diverse range of testing services, including platform unit performance, coupler testing, prestressing strand testing, concrete flexural strength, weld shear force and steel tube flattening, reflecting both the technical strengths of each laboratory and the evolving needs of the construction industry.

Throughout the three-day programmed, participants worked collaboratively to review technical requirements and prepare the documentation needed to support accreditation applications to the Department of Standards Malaysia (DSM). Discussions focused on competency development, Approved Signatory requirements, equipment and calibration readiness, sample requirements, Proficiency Testing (PT) or Interlaboratory Comparison (ILC) planning and other critical elements required under MS ISO/IEC 17025:2017.

One of the workshop's most significant achievements was the completion of key technical documentation for all proposed testing scopes. Working in focused teams, participants prepared and reviewed technical procedures, worksheets, result sheets, reporting templates, competency evaluations and supporting statistical documentation, providing a strong foundation for the next phase of implementation.

The workshop also established a clear roadmap for the remaining activities, including competency assessments, ILC participation, sample procurement, Approved Signatory fulfilment and final readiness reviews prior to submission to DSM. Updated equipment testing lists, calibration records and implementation timelines further support the systematic progression of the proposed testing scopes.

Beyond technical preparation, the workshop served as a valuable platform for collaboration, knowledge sharing and alignment among personnel from different MKRM laboratories. By working together in a coordinated environment, participants strengthened technical readiness, shared expertise and developed a common understanding of the actions required to successfully achieve accreditation scope extension.

The planned extension of accredited testing scopes will enhance MKRM's capability to deliver a broader range of reliable and internationally recognized testing services. More importantly, it reinforces CREAM's commitment to technical excellence, quality assurance and continuous improvement in support of Malaysia's construction industry.

As MKRM continues to strengthen its laboratory network across Kuala Lumpur, Sabah and Sarawak, the accreditation scope extension initiative represents more than a compliance exercise. It is a strategic investment in technical capability, service excellence and long-term organizational growth.

By expanding its accredited testing portfolio, MKRM is enhancing its ability to support industry needs while reinforcing confidence in the quality, reliability and credibility of testing services delivered nationwide.



Figure 1: Technical personnel collaborated with focused working groups to prepare and review documentation supporting the proposed accreditation scope extensions.



Figure 2: Participants from MKRM Kuala Lumpur, Sabah and Sarawak

CIDB'S FOURTH SCHEDULE – AMENDMENT 2026

By Ir. Ts. Ahmad Hazim Abdul Rahim & Nor Ain Syanieza Mahayuddin

Malaysia's construction industry continues to evolve through the adoption of advanced technologies, innovative building systems and higher quality standards. To ensure that regulatory requirements remain aligned with these developments, the Construction Industry Development Board Malaysia (CIDB) has introduced the Amendment of Fourth Schedule Order 2026 [P.U.(A) 277/2026], which came into force on 1st August 2026. The Order replaces the Fourth Schedule Order 2021 [P.U. (A) 358/2021] and establishes an updated framework for the certification of construction materials regulated under the Construction Industry Development Board Malaysia Act 1994 (Act 520).

The amendment reflects the continued need to strengthen quality assurance and enhance the safety, performance and reliability of construction materials used in Malaysia. As the industry adopts modern construction methods and emerging material technologies, regulatory provisions must be periodically reviewed to ensure that products placed on the market comply with applicable certification and technical requirements.

A key feature of the amendment is the restructuring and expansion of construction material classifications. The revised Fourth Schedule covers categories including iron and steel, concrete, cement, clay products, sanitary ware, fibre and composite materials, glass, insulation materials, radiant barriers, timber products and innovative construction materials. This broader and more detailed classification provides improved clarity for manufacturers, importers, testing laboratories and construction professionals when identifying the certification requirements applicable to their products.

The revised schedule also reflects the increasing diversity of products used in contemporary construction. Product categories introduced or expanded under the amendment include cable support systems, reusable formwork systems, polyethylene tanks, glass fibre reinforced plastic (GRP) tanks and selected innovative construction products. Their inclusion ensures that the certification framework remains responsive to current construction technologies and material applications.

In addition to expanding product coverage, the amendment recognises a wider range of technical standards. These include Malaysian Standards (MS) and internationally recognised standards and specifications such as ASTM, API, ISO and EN. The updated references provide a stronger basis for conformity assessment and help ensure that certified materials are evaluated against relevant requirements for quality, safety and performance.

The changes have important implications across the construction supply chain. Manufacturers and importers should review their product portfolios to determine whether new or revised certification requirements apply. Testing laboratories may similarly need to assess their technical capabilities and accreditation scopes in relation to the added standards and material categories. Contractors, consultants and project owners also play an essential role in ensuring that materials specified and used in construction projects satisfy the relevant certification requirements.

Overall, the Fourth Schedule Amendment 2026 represents an important development in Malaysia's construction material certification framework. By updating material classifications, broadening product coverage and recognising contemporary technical standards, the amendment strengthens the foundation for consistent conformity assessment and regulatory compliance. Effective implementation by all relevant stakeholders will be essential in supporting the continued quality, safety and reliability of Malaysia's built environment.

"The Fourth Schedule Amendment 2026 reinforces CIDB's commitment to ensuring that construction materials used in Malaysia meet evolving industry needs, recognised standards and the expectations of a modern construction sector"

The revised Fourth Schedule expands the scope of regulated construction materials by introducing several new product categories and associated technical standards. These additions reflect the increasing adoption of innovative materials and modern construction systems across the industry.

No	Product Category	Standards
1	Cable Tray, Cable Ladder, Cable Trunking and Steel Strut	MS IEC 61537 , MS IEC 61084-1 , BS 6946
2	**Steel Door Frame**	**MS 2718**
3	Stainless Steel Fittings	MS 2495 , ASTM A403
4	**Drainage and Sewerage Products**	**SIRIM 51 , MS 1293-1 , MS 881-1 , MS 881-3 , MS 2685**
5	Concrete Sleepers and Bearings	BS EN 13230-1 , BS EN 13230-2 , AS 1085-14 , RIS 4
6	**Fibre Cement Corrugated Sheets and Fittings**	**ISO 10904 , MS 1224**
7	Polyethylene Tank	MS 1225-1 , MS 1225-2
8	**Glass Fibre Reinforced Plastic (GRP) Tank**	**MS 1390-1 , MS 1241**

The introduction of these additional product categories presents new compliance and certification requirements for manufacturers, importers and suppliers. As CIDB's research and technical arm, CREAM is positioned to support industry stakeholders through its testing, research, technical evaluation and training capabilities, helping organisations better understand and prepare for the requirements introduced under the Fourth Schedule Amendment 2026.



Integriti: Nilai Kecil yang Menentukan Besar Makna Amanah

Oleh: Mohd Aizuddin Ayob C.A.(M)

Di sebalik setiap keputusan, tindakan dan pilihan harian, integriti menjadi asas kepada kepercayaan yang membentuk kekuatan sesebuah organisasi.

"Integriti bukan tentang siapa yang sedang memerhati, tetapi tentang prinsip yang terus dipegang apabila tiada siapa yang melihat."

Dalam dunia kerja yang semakin kompleks, integriti bukan lagi sekadar istilah yang sering dikaitkan dengan pematuhan, audit atau pencegahan rasuah. Ia ialah nilai yang hidup dalam cara kita berfikir, membuat pertimbangan dan melaksanakan amanah. Setiap keputusan yang dibuat, setiap maklumat yang direkodkan, setiap sumber yang digunakan dan setiap tindakan yang diambil membawa bersama satu persoalan penting: adakah kita sedang melakukan perkara yang betul dengan cara yang betul?

Bagi warga CREAM, integriti bukanlah tanggungjawab yang terletak pada bahu pihak tertentu sahaja. Ia bukan hanya milik pengurusan, bukan juga terbatas kepada pegawai yang menguruskan fungsi pematuhan atau integriti. Sebaliknya, integriti ialah tanggungjawab kolektif yang perlu diterjemahkan dalam urusan seharian — daripada penyediaan dokumen, pengurusan projek, perolehan, penggunaan aset, pelaporan, sehinggalah kepada cara kita berinteraksi sesama rakan sekerja.

Apabila Integriti Diuji dalam Ruang Seharian

Sering kali, kita membayangkan isu integriti hanya muncul dalam keputusan besar atau situasi yang jelas melibatkan salah laku. Namun dalam realiti organisasi, integriti lebih kerap diuji dalam ruang-ruang kecil yang berlaku setiap hari. Ia hadir ketika kita memilih sama ada mahu merekod maklumat dengan tepat, mengakui kesilapan yang berlaku, menggunakan masa bekerja secara berhemah, menjaga kerahsiaan maklumat atau memastikan keputusan dibuat tanpa dipengaruhi kepentingan peribadi.

Pilihan-pilihan kecil ini mungkin kelihatan biasa, namun di situlah budaya organisasi dibentuk. Apabila tindakan yang betul dilakukan secara konsisten, ia menjadi kebiasaan. Apabila kebiasaan itu dikongsi oleh ramai warga kerja, ia akhirnya membentuk budaya. Sebaliknya, apabila kesalahan kecil dianggap remeh atau dibenarkan atas alasan "semua orang buat", organisasi perlahan-lahan kehilangan kepekaan terhadap nilai amanah.

Dalam konteks ini, integriti tidak semestinya lahir melalui tindakan yang besar dan menonjol. Kadangkala, ia hadir melalui keberanian untuk bertanya apabila ragu-ragu, kesediaan untuk membetulkan kesilapan, ketegasan untuk mematuhi prosedur, serta kejujuran dalam melaporkan sesuatu perkara sebagaimana adanya.

Apabila Integriti Diuji dalam Ruang Seharian

Integriti juga menuntut keberanian moral — keberanian untuk melakukan perkara yang betul walaupun pilihan itu tidak mudah, tidak popular atau mungkin mengundang rasa tidak selesa. Dalam persekitaran kerja, ada masanya seseorang berdepan tekanan untuk mempercepatkan proses, mengabaikan langkah

tertentu atau membuat keputusan sebelum maklumat yang mencukupi diperoleh.

Dalam keadaan sebegini, prinsip menjadi kompas. Warga kerja yang berintegriti tidak sekadar bertindak untuk menyelesaikan tugasan dengan cepat, tetapi memastikan setiap langkah diambil secara sah, wajar dan boleh dipertanggungjawabkan. Keputusan yang baik bukan hanya diukur pada hasil akhirnya, tetapi juga pada proses yang membawa kepada keputusan tersebut.

Di sinilah pentingnya keberanian untuk mempertahankan prinsip. Berani berkata "tidak" kepada perkara yang bercanggah dengan undang-undang, peraturan atau etika kerja bukanlah tanda penentangan. Sebaliknya, ia mencerminkan kematangan profesional dan kefahaman bahawa amanah organisasi perlu didahulukan berbanding tekanan semasa atau kepentingan tertentu.

Keputusan yang Telus, Amanah yang Terpelihara

Sebagai organisasi yang melaksanakan pelbagai fungsi merangkumi pentadbiran, kewangan, penyelidikan dan pengurusan projek, CREAM sentiasa berdepan dengan keputusan yang memerlukan pertimbangan teliti. Setiap keputusan bukan sahaja perlu mematuhi peraturan, malah perlu mampu dijelaskan secara munasabah sekiranya diperiksa, diaudit atau dipersoalkan.

Dalam membuat keputusan, beberapa persoalan asas wajar menjadi cermin kepada pertimbangan kita:

- Adakah keputusan ini mematuhi peraturan dan prosedur yang berkuat kuasa?
- Adakah keputusan ini adil kepada semua pihak yang terlibat?
- Adakah wujud kepentingan peribadi atau konflik kepentingan yang perlu diisytiharkan?
- Adakah keputusan ini masih boleh dipertahankan sekiranya diteliti oleh pihak luar?

Jika jawapan kepada persoalan-persoalan ini menimbulkan rasa ragu, itu mungkin petunjuk bahawa keputusan tersebut perlu dinilai semula. Integriti mengajar kita untuk berhenti seketika, mendapatkan pandangan yang sewajarnya dan memastikan tindakan yang diambil berpijak pada landasan yang betul.

Sesungguhnya, integriti tidak bermaksud seseorang tidak pernah melakukan kesilapan. Dalam dunia kerja yang dinamik, kesilapan boleh berlaku. Namun, ukuran sebenar integriti terletak pada kesediaan untuk mengakuinya, membetulkannya dan menjadikan pengalaman tersebut sebagai pengajaran untuk memperkukuh amalan kerja pada masa hadapan.

Budaya Integriti Bermula daripada Kita

Polisi, prosedur dan garis panduan menyediakan kerangka penting kepada tadbir urus organisasi. Namun, budaya integriti tidak terbina melalui dokumen semata-mata. Ia hanya benar-benar hidup apabila setiap warga kerja memahami maksud amanah, menghormati peraturan dan melaksanakan tanggungjawab dengan penuh kesedaran.

Setiap warga CREAM mempunyai peranan dalam membentuk persekitaran kerja yang berlandaskan integriti. Kita perlu berani saling mengingatkan, mengelakkan konflik kepentingan, menjaga kerahsiaan maklumat, menggunakan sumber organisasi secara berhemah dan melaporkan perkara yang mencurigakan melalui saluran yang betul.

Apabila integriti menjadi amalan bersama, kepercayaan akan terbina secara semula jadi. Kepercayaan inilah yang mengukuhkan hubungan sesama warga kerja, memperkukuh keyakinan pelanggan dan rakan strategik, serta memelihara reputasi organisasi di mata pihak berkepentingan dan masyarakat.

Menjadikan Integriti Sebagai Cara Kerja

Pada akhirnya, integriti bukan sekadar nilai yang dilaungkan dalam kempen atau dipaparkan dalam poster peringatan. Ia ialah cara kita membawa diri dalam organisasi — cara kita menghormati amanah, menilai pilihan dan memastikan setiap tindakan mencerminkan prinsip yang benar.

Integriti tidak menuntut kesempurnaan mutlak. Sebaliknya, ia menuntut kejujuran untuk memperbaiki diri, keberanian untuk melakukan perkara yang betul dan ketekalan untuk memelihara amanah walaupun dalam keadaan yang mencabar.

Jika setiap individu memilih untuk bekerja dengan amanah, membuat keputusan dengan telus dan mempertahankan prinsip dengan berani, CREAM akan terus berdiri sebagai organisasi yang diyakini, dihormati dan dipercayai. Kerana pada akhirnya, kekuatan sesebuah organisasi tidak hanya terletak pada sistem yang dibina, tetapi pada nilai yang dihidupkan oleh setiap insan di dalamnya.

"Jaga amanah. Pelihara nama baik. Pertahankan integriti — kerana kepercayaan dibina melalui pilihan yang benar, setiap hari."



CREAM
CONSTRUCTION RESEARCH INSTITUTE OF MALAYSIA

Engagements and Courtesy Visits



CREAM continues to strengthen its role as a catalyst for industry growth through active courtesy visits and strategic engagements with government agencies, industry players, and academic institutions. These initiatives aim to foster collaboration, exchange expertise, and explore opportunities for mutual support in advancing research, innovation, and best practices within the construction sector.



Courtesy Visit by CREAM to Keretapi Tanah Melayu Berhad (KTMB)

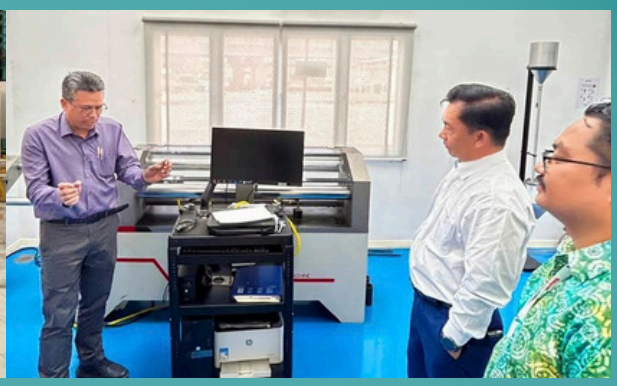
6 July 2026 (Monday)
KTMB Headquaters, Kuala Lumpur



Courtesy Visit by CREAM to Department of Standards Malaysia (DSM)

7 July 2026 (Tuesday)
Department of Standards Malaysia (DSM), Cyberjaya





Courtesy Visit by CIDB Chairman to Makmal Kerja Raya Malaysia (MKRM)
9 July 2026 (Thursday)
Makmal Kerja Raya Malaysia (MKRM), Kuala Lumpur





Courtesy Visit by Research Institute of Standards and Norms China to CIDB and CREAM
13 July 2026 (Monday)
CIDB 520, The MET Corporat Towers, Kuala Lumpur





Technical Visit by CREAM to Sunway Spun Pile (M) Sdn Bhd
30 July 2026 (Thursday)
Batang Kali Factory, Selangor





Technical Visit by CIC Hong Kong to Makmal Kerja Raya Malaysia (MKRM)
31 July 2026 (Friday)
Makmal Kerja Raya Malaysia (MKRM), Kuala Lumpur





Courtesy Visit by CREAM to SIRIM QAS International Sdn Bhd
12 August 2026 (Wednesday)
Shah Alam, Selangor



Courtesy Visit by CREAM to Technology Depository Agency (TDA)
13 August 2026 (Thursday)
Cyberjaya, Selangor



Courtesy Visit by CREAM to Majlis Bandaraya Shah Alam (MBSA)
9 September 2026 (Wednesday)
Majlis Bandaraya Shah Alam, Selangor



Courtesy Visit by CREAM to Faculty of Build Environment, Universiti Malaya
21 September 2026 (Monday)
Universiti Malaya, Kuala Lumpur

Event Calendar

DATE	PROGRAMS	VENUE
	NOVEMBER	
10 - 12 Nov 2026	International Construction Week (ICW) Malaysia & BuildXpo 2026	MITEC, Kuala Lumpur
20 Nov 2026	Kursus Refresher Juruaudit Contractor's Quality Management System (CQMS)	The MET Kuala Lumpur
	DECEMBER	
15 Dec 2026	CREAM Webinar Series 2026	Online
16 Dec 2026	CREAM Webinar Series 2026	Online

**Please note that the CREAM Event Calendar is subject to change. CREAM reserves the right to amend, postpone, or cancel any scheduled events, programmes, or activities without prior notice.*



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3. Pemeriksaan dan Persempelan
4. Penilaian *Rating Tools*
5. Pensijilan

yang berkaitan dengan industri pembinaan

CREAM KOMITED UNTUK

1. Sentiasa bersedia untuk mencegah potensi perlakuan rasuah dengan menyediakan polisi yang mesti dipatuhi
2. Mematuhi dasar, peraturan, pekeliling, kod etika yang digariskan dalam memerangi rasuah
3. Mempromosikan perlaksanaan SPAR kepada semua pihak yang berkepentingan dalam semua aktiviti dan urus niaga dengan tujuan memelihara kepentingan bersama
4. Mempraktikkan tadbir urus yang baik dan memelihara integriti sepanjang masa
5. Memantau prestasi SPAR dengan menetapkan, mengkaji dan mencapai objektif anti rasuah yang ditetapkan
6. Memberi sokongan kepada kakitangan lain untuk menunjukkan kepimpinan dalam mencegah dan mengesan aktiviti rasuah kerana ia terpakai kepada bidang tanggungjawab
7. Mempraktikkan ISO 37001:2016 SPAR dan menggalakkan penambahbaikan yang berterusan

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3. Membolehkan kakitangan menerima nasihat daripada orang yang sesuai dengan apa yang perlu dilakukan jika berhadapan dengan kebimbangan atau keadaan yang boleh melibatkan rasuah

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Maklumkan kepada Unit Integriti & Governans (IGU)



Melalui e-mel **integrity@cream.my**



Menghantar aduan atau laporan secara bertulis kepada alamat berikut



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Walau bagaimanapun, dalam keadaan di mana pemberian hadiah itu sukar ditolak, kakitangan boleh menerima hadiah tersebut. Jenis-jenis hadiah yang boleh diterima dengan had nilai **maksimum RM500** dan syarat berikut:

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5. Pemberian sebagai tanda terima kasih,cenderahati atau diberikan kepada individu atau syarikat yang memberi sumbangan bagi kemajuan kerja, penceramah jemputan dan pelawat

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Deliver high quality projects from construction to handover: Enforce high quality standards, reduce rework costs and boost overall customer satisfaction. Conduct quality inspections with digital forms, visualise key quality indicators, and efficiently manage defect rectification processes.

Novade | Safety-HSE



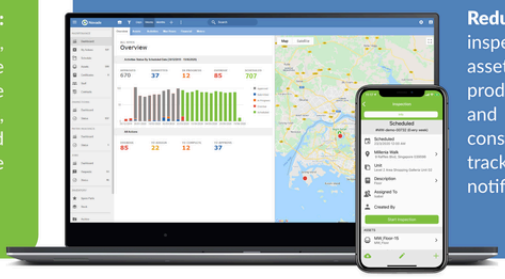
Drive health and safety performance on job sites: Enforce compliance effectively, get everybody engaged, and prevent issues before they occur. Easily create and monitor all safety actions, conduct digital safety inspections, and digitise PTWs and safety forms.

Novade | Site Diary



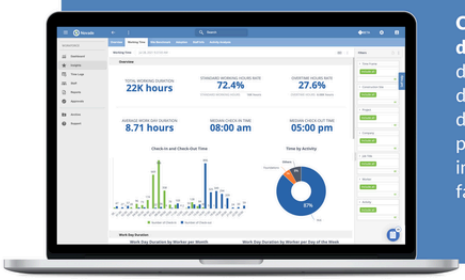
Monitor productivity in the field: Facilitate production reporting, automate site diaries, and generate actionable data. Gain real-time access to production information, set up reports in minutes, and leverage the data to improve productivity and bidding accuracy.

Novade | Maintenance



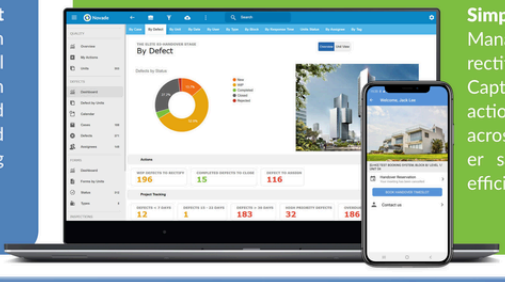
Reduce operational costs: Manage inspections and repairs, increase asset lifecycle, and improve teams' productivity. Manage fixed assets and equipment across multiple construction sites; schedule and track inspections—technicians get notified on mobile devices.

Novade | Insights



Change the way you look at data: Manage reporting easy with dynamic dashboards and powerful data visualisations. Leverage on data to predict trends and profitability, manage risks and improve productivity by making faster and smarter decisions.

Novade | Handover



Simplify project handover: Manage inspections, defects and rectification tasks in real time. Capture issues on site, assign actions instantly, track progress across teams, and improve customer satisfaction with faster, more efficient handover delivery.

Secure

Access with secured login and passwords. All connections are encrypted with strict policies on data security and confidentiality.

Reliable

All modules work offline and online with 99.9% uptime service for synchronisation server. All data is backed up daily.

Scalable

The system is designed to handle hundreds of users and thousands of defects, pictures and checklists.

Join Novade's AI Tech Talk Malaysia 2026

Location: The Red Beanbag, Menara Mudajaya, Selangor
Date: 3 June 2026 (Wed)
Time: 10:00 AM – 12:00 PM
Free entry | Buffet provided | Limited seats

Scan QR to register

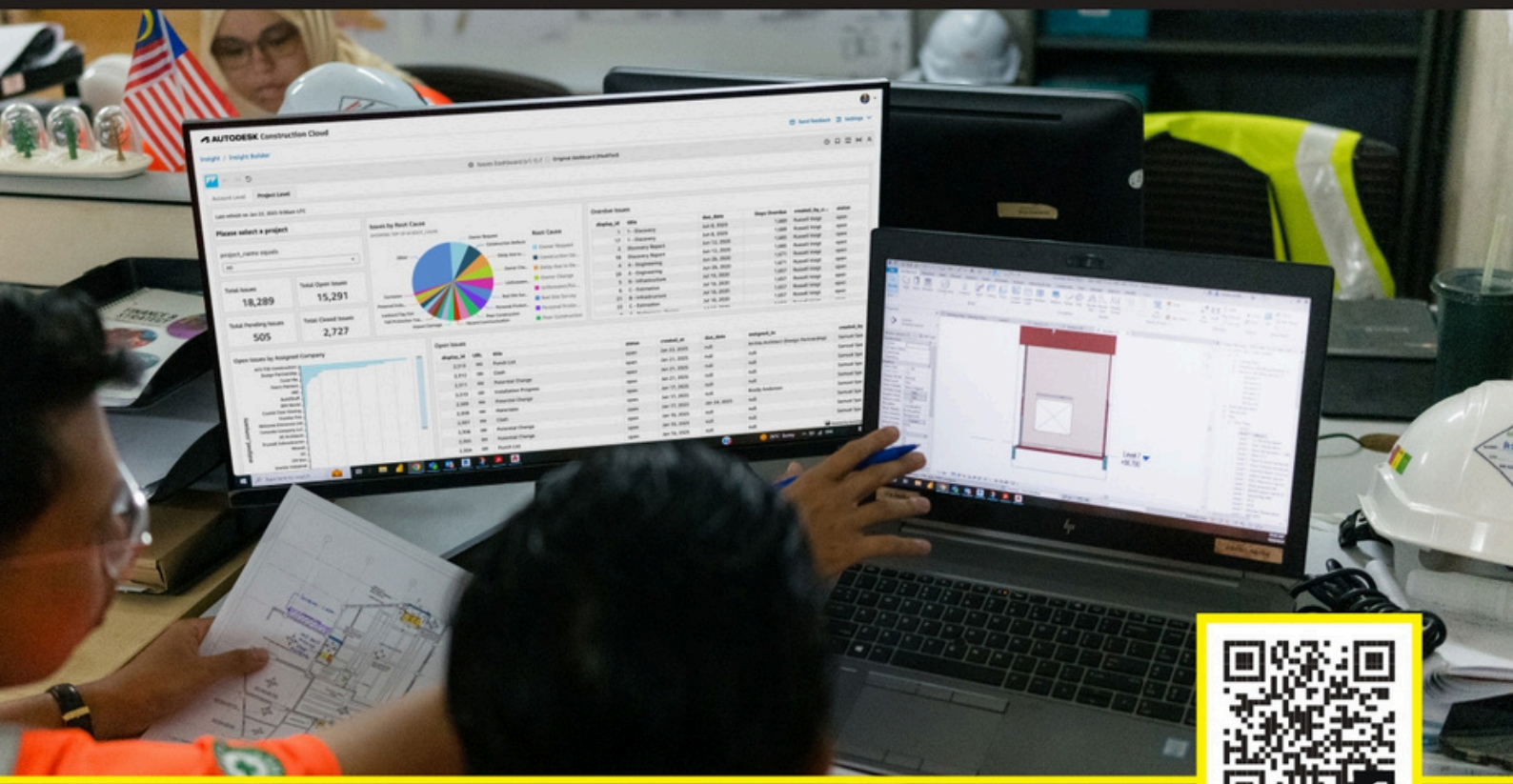
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- Reduce rework and risks
- Improve quality, safety and efficiency



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KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI

Overview of NTIS



National Technology & Innovation Sandbox (NTIS)

The National Technology and Innovation Sandbox (NTIS) was first announced as part of the Short-Term Recovery Plan (PENJANA) in June 2020 and subsequently launched on 19 August, 2020 by the Prime Minister. A programme that allows researchers, innovators and entrepreneurs to test their products and services in a live environment and qualify for grants to bring those products and services to market. NTIS relaxes certain regulatory requirements to accelerate the development of innovation from the R&D stage to being commercially ready.

Overview

From July 2020 - September 2025

966
Complete Applications Received

62
Cohorts

220
Approved Applications

48
Regulatory Cases Facilitated with 19 Ministries Collaborations

65
Innovation Acceleration Network (IAN) Partners

RM 135.2mil
Funding Approved

16 National Sandboxes

- Agriculture Sandbox with FELDA
- Robotics & Automation Sandbox with Drone & Robotics Zone (DRZ) Medini Iskandar
- Logistics Sandbox with Capital A
- DroneTech Sandbox with AREA57 MRANTI
- High-Tech Education Sandbox with MMU
- SportsTech Sandbox with ISN
- Smart Highway Sandbox with PLUS
- Digital IoT Sandbox with KSTI
- Sustainable Smart Cities Sandbox with Sunway iLabs
- HealthTech Hub Sandbox with KKM
- Construction Sandbox with CREAM
- Food Security Sandbox with NCIA
- Artificial Intelligence Sandbox with NVIDIA
- Sarawak Technology & Innovation (STI) Sandbox with SDEC, TEGAS, & SIGHT Digital
- Property Technology Sandbox with S P Setia
- Biotechnology Sandbox with NIBM

NATIONAL TECHNOLOGY & INNOVATION SANDBOX

NTIS Secretariats: MRANTI, MIMOS, FUTURISE

Main Funding Partner: MTDC

MALAYSIA MADANI kemampanan

ASEAN MALAYSIA 2025

YOUR GO-TO INDUSTRIAL EXPERTS

BANDAR UNIVERSITI PAGOH

Shaping The Future of Industry

Bandar Universiti Pagoh Industrial Park offers a strategic gateway to Johor's dynamic economy, with direct access to the North–South Expressway for seamless logistics and regional connectivity. Positioned between Kuala Lumpur and Johor Bahru, it features a unique industrial–academia ecosystem that drives innovation, talent development, and long-term business growth. Anchor your operations in a future-ready industrial ecosystem.

Strategic Location. Customised Solutions. Future-Ready.



**Artist's Impression of Bandar Universiti Pagoh Industrial Park Aerial View*

For Industrial Land Enquiries:

06-984 2222

sdp-industrial.com

Sime Darby Property

Sime Darby Property Berhad (197301002148)



Bakun Hydroelectric Plant
2,520MW
Available Capacity

sarawak energy

Power to Grow

As Sarawak's primary power provider and Malaysia's largest renewable energy developer, Sarawak Energy is lighting up and powering our communities.

About Sarawak Energy

- Sarawak Energy is powered by a multidisciplinary workforce of over 6,000, serving a population of 3 million, covering 790,000 domestic, commercial, industrial and export customers through an extensive transmission and distribution network.
- Our mission is to deliver reliable, renewable and affordable energy for the people of Sarawak and beyond.

Follow us on

Sarawak Energy Berhad

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- Largest Hydropower Sustainability Standard Certified Hydropower Plant In Southeast Asia (Silver Rate)
- Winner of International Hydropower Association's Blue Planet Prize 2025

Glodon



Digital Building Platform Service Provider

Providing End-to-End Solutions for the Building Life Cycle

Driving Construction Digitalization Since 1998

100+ Countries and Regions	**80+** Global Branches	**8** Global R&D Centers
390K+ Corporate Customers	**7 million+** Construction Projects	**10 million+** End Users

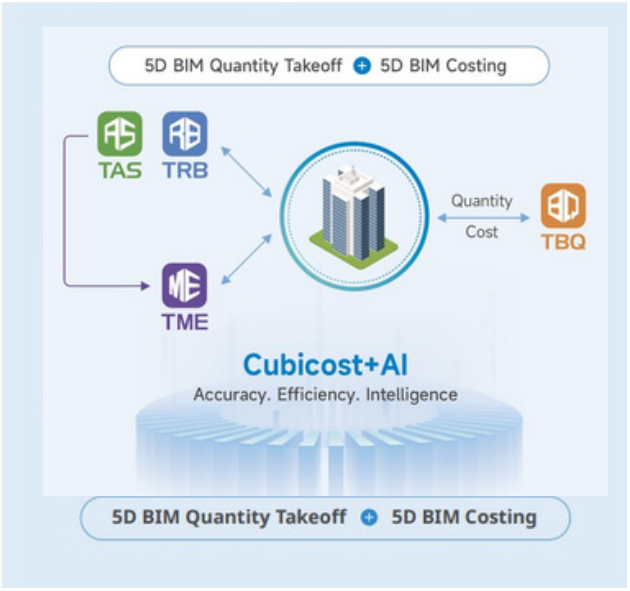
Glodon Cubicost 5D BIM Digital Cost Management Solution

Cubicost TAS
Takeoff for Architecture and Structure

Cubicost TRB
Takeoff for Rebar

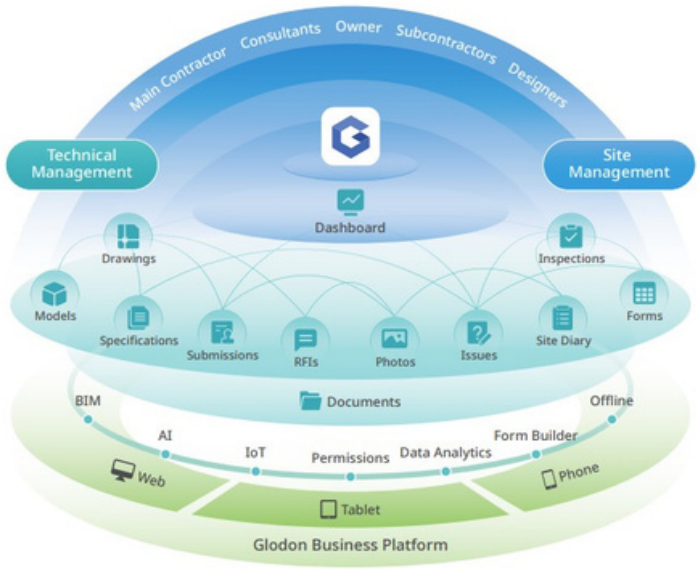
Cubicost TME
Takeoff for Mechanical and Electrical

Cubicost TBQ
Tender Series for Bill of Quantity



- Intelligent Identification
- Build-in Local Rules
- Customizable Report
- Visual Quantity Validation
- Integrated Quantity & Cost

Glodon Construction Project Management Platform



- Streamlined Collaboration Process
- Centralized Data Hub
- Visualized Site Management
- Seamless Data Interoperability

Asia Website

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AS ONE WITH THE NATION

Rail Transportation | **Airpor ts** | **Commercial & Residential** | **Security Complexes**



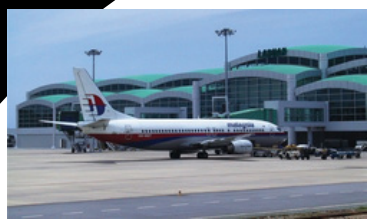














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THE MAKERS OF TOMORROW

FBG has long been a trusted name in Malaysia's construction industry, renowned for delivering complex, high-value projects with precision, safety, and uncompromising quality. Established in 1976, the Group has grown into one of the country's leading G7-certified contractors, with a proven track record that includes landmark developments such as the Low-Cost Carrier Terminal (LCCT), Tampin Hospital, and the Ampang LRT Depot. With nearly five decades of expertise, FBG continues to shape Malaysia's built environment through excellence in construction.

Beyond construction, FBG has strategically diversified into property development, plantation, logistics, and related sectors - driving progress through innovation, operational excellence, and sustainable growth.

At the heart of our journey is a clear purpose: to build with intent today, so we may become the Makers of Tomorrow.



- CONSTRUCTION
- PROPERTY DEVELOPMENT
- LOGGING & TIMBER TRADING
- LOGISTICS
- TRADING OF BUILDING MATERIALS
- PLANTATION

FBG HOLDINGS BERHAD
(formerly known as Fajarbaru Builder Group Bhd)

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Price from RM 381,000



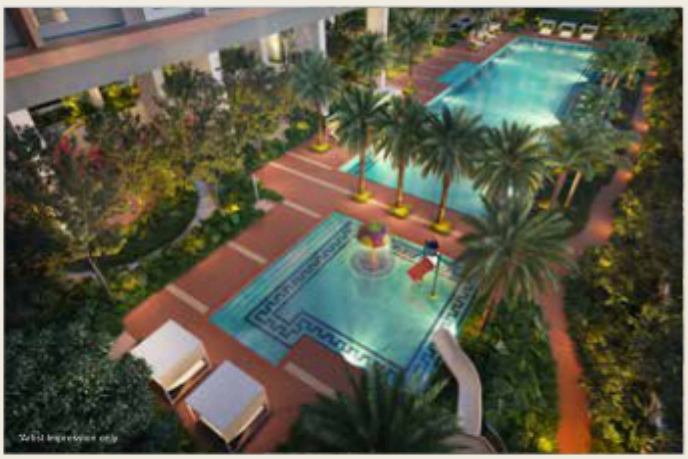
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SERVICED RESIDENCE
2,3 & 4 Bedrooms

FOR THE URBAN FAMILIES
700, 850 & 1000 SQFT

LOCATION MAP





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Reinvent Spaces. Enhance Life.

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MATRIX Property

Prestige Living within Golf Course Vicinity

Welcome to Suria Heights - a secure residential development strategically located in the prime area of Bandar Sri Sendayan. Spanning 116 acres of freehold land, it offers a variety of homes equipped with smart home technology for seamless living. At its heart, a 4.6-acre lake park provides serene spaces for relaxation and recreation. With excellent connectivity to major highways, Suria Heights blends modern comfort, suburban tranquility, and sustainable living.

A diverse selection of home types tailored for different lifestyles and family needs.

- TERRACES
- CLUSTER HOMES
- SEMI-DETACHED HOMES



Artist's Impression

- Versatile Home Layouts
- Smart Home Integration for Effortless Living
- Secured Enclave
- Complimentary Clubhouse Membership
- Sustainable Features for a Future-Ready Home

Developed by:
BSS DEVELOPMENT SDN BHD
200501012590 (689638-X)

A Subsidiary of:
MATRIX CONCEPTS HOLDINGS BERHAD
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Artist's Impression

Bukit Suria Rumah Kluster (CH-P1) • No. Lesen Pemaju : 10613/11-2028/1282(A)• Tempoh Sah : 19/11/2023 – 18/11/2028 • No. Permit Iklan : 10613-61/11-2026/1071(N)-(L) • Tempoh Sah : 25/11/2024 – 24/11/2026 • Hakmilik Tanah : Kekal • Bebanan Tanah : Tiada • Pelan Bangunan Diluluskan oleh : Majlis Bandaraya Seremban • No. Rujukan : MBS.S.KB1-08/24 (B) • Tarikh Dijangka Siap : Disember 2026 • Jenis RKDT - 56 Unit, RM 1,126,999 (Min) - RM 1,692,364 (Max) • Bukit Suria Rumah Teres (LH-P1) • No. Lesen Pemaju : 10613/11-2028/1282(A)• Tempoh Sah : 19/11/2023 – 18/11/2028 • No. Permit Iklan : 10613-62/12-2026/1135(N)-(L) • Tempoh Sah : 12/12/2024 – 11/12/2026 • Hakmilik Tanah : Kekal • Bebanan Tanah : Tiada • Pelan Bangunan Diluluskan oleh : Majlis Bandaraya Seremban • No. Rujukan : BIL(14)DLM.MBS.KB1-04/24(B) • Tarikh Dijangka Siap : November 2026 • RTDT Jenis A1 - 8 Unit, RM 1,087,834 (Min) - RM 1,221,723 (Max) • RTDT Jenis A2 - 8 Unit, RM 1,010,999 (Min) - RM 1,134,888 (Max) • RTDT Jenis A3 - 60 Unit, RM 806,999 (Min) - RM 930,888 (Max) • Bukit Suria Rumah Berkembar (CH-P1) • No. Lesen Pemaju : 10613/11-2028/1282(A)• Tempoh Sah : 19/11/2023 – 18/11/2028 • No. Permit Iklan : 10613-66/04-2027/0280(N)-(L) • Tempoh Sah : 14/04/2025 – 13/04/2027 • Hakmilik Tanah : Kekal • Bebanan Tanah : Tiada • Pelan Bangunan Diluluskan oleh : Majlis Bandaraya Seremban • No. Rujukan : BIL (6) DLM MBS.S.KB1-25/24(B) • Tarikh Dijangka Siap : Februari 2027 • RBDT Jenis A - 14 Unit, RM 1,620,999 (Min) - RM 2,078,568 (Max) • Sekatan-Sekatan Kepentingan : Tanah yang diberimilik ini tidak boleh dipindahmilik, dipajak, digadai melainkan dengan kebenaran bertulis daripada Pihak Berkuasa Negeri. • All renderings contained in this advertisement are artist's impressions only. The information contained herein is subject to change without notification as may be required by the relevant authorities or developer's project consultant. Whilst every care is taken in providing this information, the owner, developer and manager cannot be held responsible for any variations. This is not a gated and guarded development. For avoidance of doubt on the specifications and development status, please always refer to the Sale and Purchase Agreement. THIS ADVERTISEMENT HAS BEEN APPROVED BY THE NATIONAL HOUSING DEPARTMENT. THE DEVELOPMENT INFORMATION CAN BE CHECKED THROUGH THE PORTAL TEDUH.KPKT.GOV.MY.

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