

MRC TECHNICAL eBULLETIN

RAISING STANDARDS FOR THE AUTOMOTIVE INDUSTRY



PROTON RECALLS X90
FOR WIRING DEFECT

MRC REAL TIMES
PROJECT 2023

MRC MALAYSIA
IN BRIEF 2023

Thank you for reading this MRC Technical eBulletin issue #03/2023/009. If you have any questions regarding the content, or suggestion for improvement, please contact MRC Malaysia via

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... Introduction



Steve Miller
Chief Executive Officer, MRC Malaysia

Merry Christmas

Hello everyone,

We bring insight into our latest database releases along with information pertaining to our Real Times project and the MRC Vehicle Information (MVI) Fact Sheet for new vehicles in Malaysia i.e. Chery Omoda 5 2023, Toyota Vios 2023, BMW X3 PHEV 2022 and Honda HR-V 2022.

Besides, in this edition, you may find the information pertaining to various recalls involving Proton X90 for wiring defects, various Mercedes Benz vehicles for faulty airbags and Audi's application update.

Furthermore, we would like to share briefly our fascinating journey, achievements and activities throughout the year of 2023 inclusive of MRC Academy programs and MRC Sport Club events. I would like to express our gratitude for your unwavering trust in our company and contributions to the industry, and thank you for all your undivided support to MRC Malaysia.

In this festive season, I would like to take this opportunity to wish you "Merry Christmas and Happy New Year" and may this season be full of light and happiness for you and your family. All the best 2024. Happy New Year!



09



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Database Releases at a Glance

Summary of the past four months of MRC database releases.

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MRC Real Times Project 2023

Sharing the latest news and updates of MRC Real Times Project 2023.

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MVI Fact Sheet

MRC Vehicle Information Fact Sheet for Chery Omoda 5 2023, Toyota Vios 2023, BMW X3 PHEV 2022 and Honda HR-V 2022.

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Recalls

Proton X90 recalls for wiring defects, Audi's application update and other recalls highlight.



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MRC Malaysia in Brief 2023

An overview of MRC Malaysia 2023 milestones including MRC Academy programs and MRC Sport Club activities.

Database Release at a Glance



AUGUST 2023

New Vehicle Released



Honda Civic 2022



Kia Sorento 2023



Peugeot 2008 (2022 & 2023)



4

MODELS



9

DERIVATIVES



6,071

TOTAL LINE ITEM
ATTACHED

Manufacturer's Price Updates



13

TOTAL VEHICLE
MANUFACTURERS



336,098

TOTAL PARTS
PRICE CHANGES



6,202

TOTAL
NEW PARTS



14,060

TOTAL
SUPERSESSION

SEPTEMBER 2023

New Vehicle Released



BMW i3 2019



BMW X3 2020 & 2021



Toyota Vios 2023



Volvo S60 PHEV 2019 & 2020



6

MODELS



8

DERIVATIVES



6,572

TOTAL LINE ITEM
ATTACHED

Manufacturer's Price Updates



14

TOTAL VEHICLE
MANUFACTURERS



63,077

TOTAL PARTS
PRICE CHANGES



8,179

TOTAL
NEW PARTS



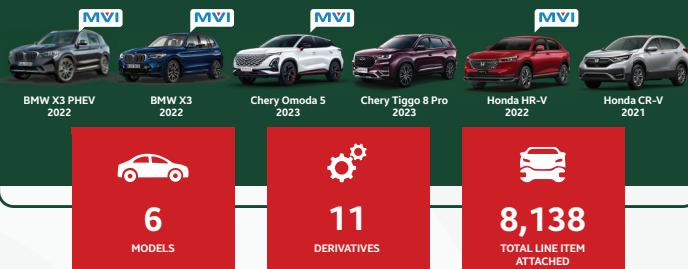
13,164

TOTAL
SUPERSESSION

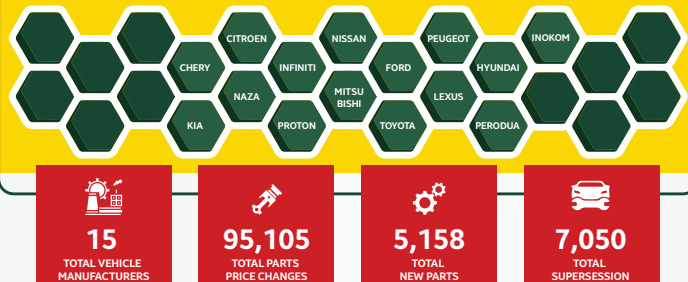
Database Release at a Glance

OCTOBER 2023

New Vehicle Released

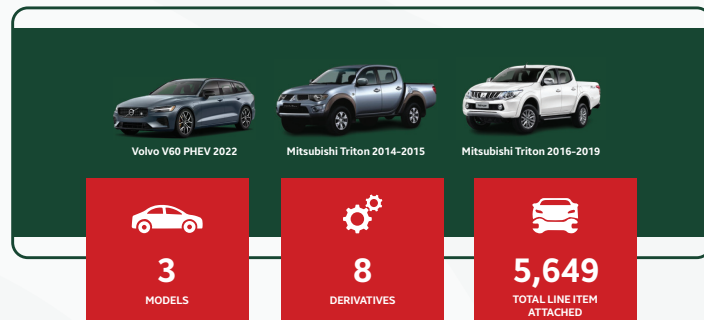


Manufacturer's Price Updates

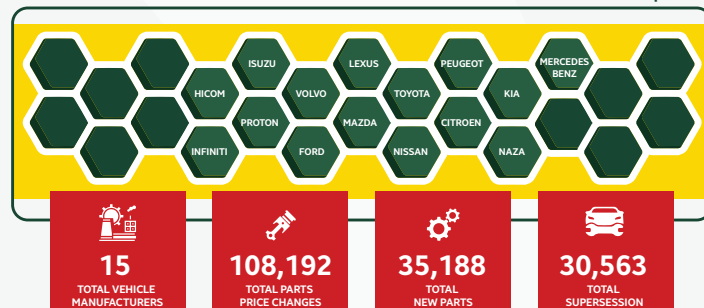


NOVEMBER 2023

New Vehicle Released



Manufacturer's Price Updates



... MRC Real Times Project 2023



New MRC Real Times projects have been carried out to replace previously used Thattham Composite Times. This MRC Real Times are based on vehicle specific make and model, comprises locally research times with local vehicle manufacturers and data acquired directly from Thattham Research, UK.

Although composite times are acceptable and accurate, there are some instances that the actual repair times values deviate slightly from the grouped value. These deviations can be further improved in these vehicle specific real times.

The repair times for every task and its sub-operation will be transparent and visible in real times. It would be beneficial for future audits and can also be used as a reference for resolving any dispute on claim estimates.

Motor insurers, takaful operators, loss adjusters and vehicle repairers can confidently produce accurate vehicle repair estimates using this actual manufacturer vehicle model with better quality repair estimates.

MRC Malaysia has continuously acquired vehicle specific real times to accommodate similar vehicle models in Malaysia and also collaborated with the local vehicle manufacturers to build locally research real times since 2018.

In 2023, MRC Malaysia has successfully completed the locally research real times for Perodua Ativa 2021 & 2022, Proton Exora 2009, Proton Gen-2 2004 and Proton Savvy 2005.

Also, the acquired vehicle models from Thattham Research, UK are Mitsubishi Triton 2019, Mitsubishi Triton 2021, Mazda 6 2004-2010, Mazda 6 2010-2013, Subaru XV 2017 and Subaru XV 2019.



The current times database status as of November 2023, out of 2,644 derivatives of car model variants in the MRC Database, 1,082 derivatives (41.0%) are vehicle specific real times and 1,562 derivatives (59.0%) are Thattham Composite Times.

Release Notes for MRC Database Version T9.0



5
VEHICLES
MANUFACTURERS



11
VEHICLES
MODELS RANGE



42
VEHICLES
DERIVATIVES



Perodua Ativa 2021



Perodua Ativa 2022



Proton Gen-2 2004



Proton Exora 2009



Subaru XV 2017



Subaru XV 2019



Proton Savvy 2005



Mazda 6 2004-2010



Mazda 6 2010-2013



Mitsubishi Triton 2019

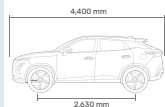


Mitsubishi Triton 2021

VEHICLE

Manufacturer : Chery
Model : Omoda 5
Year : 2023 On
MVI Code : CH011 & CH012
MRC Times : TC031
Version : MVI230901_R1

DIMENSION



CRASH SAFETY RATING

ASEAN NCAP
NOT TESTED
















OTHER NCAP



VEHICLE SPECIFICATIONS

Variant	Omoda 5 C	Omoda 5 H
Price	RM 108,800	RM 118,800
Engine	16-valve DOHC with Turbocharger, Variable Valve Timing	
Capacity	1,498 cc	
Power	156 hp at 5,500 rpm	
Torque	230 Nm at 1,750 rpm	
Transmission Type	CVT Automatic	
MVI Code	CH011	CH012
TTS Code	TC031	

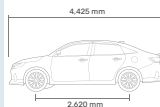
VEHICLE FEATURES

 AEB AUTONOMOUS EMERGENCY BRAKING ALL VARIANTS	 LKA LANE-KEEPING ASSIST ALL VARIANTS	 BSD BLIND SPOT DETECTION ALL VARIANTS	 FCW FORWARD COLLISION WARNING ALL VARIANTS	 VDC VEHICLE DYNAMIC CONTROL ALL VARIANTS
 ACC ADAPTIVE CRUISE CONTROL ALL VARIANTS	 SRS AIRBAGS ALL VARIANTS	 360° 360-DEGREE CAMERA ALL VARIANTS	 AHB AUTO HIGH BEAM ALL VARIANTS	 SUNROOF H VARIANT ONLY
 CRS/ISOFIX ALL VARIANTS	 HSA HILL START ASSIST ALL VARIANTS	 AUTO START STOP ALL VARIANTS	 POWER TAILGATE ALL VARIANTS	 EPB ELECTRONIC PARKING BRAKE ALL VARIANTS

VEHICLE

Manufacturer : Toyota
Model : Vios
Year : 2023 On
MVI Code : TY296 & TY297
MRC Times : TC020
Version : MVI230901_R1

DIMENSION



CRASH SAFETY RATING


















Overall Score
78.70



VEHICLE SPECIFICATIONS

Variant	1.5E	1.5G
Price	RM 89,600	RM 95,500
Engine	16-valve DOHC, Naturally-aspirated with Dual Variable Valve Timing	
Capacity	1,496 cc	
Power	104 hp at 6,000 rpm	
Torque	138 Nm at 4,200 rpm	
Transmission Type	CVT Automatic	
MVI Code	TY296	TY297
TTS Code	TC020	

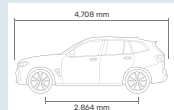
VEHICLE FEATURES

 AEB AUTONOMOUS EMERGENCY BRAKING ALL VARIANTS	 LKA LANE-KEEPING ASSIST 1.5G ONLY	 BSD BLIND SPOT DETECTION ALL VARIANTS	 FCW FORWARD COLLISION WARNING ALL VARIANTS	 RTA REAR TRAFFIC ALERT ALL VARIANTS
 ACC ADAPTIVE CRUISE CONTROL 1.5G ONLY	 SRS AIRBAGS ALL VARIANTS	 PMC MISOPERATION CONTROL ALL VARIANTS	 AHB AUTO HIGH BEAM 1.5G ONLY	 FDA FRONT DEPARTURE ALERT ALL VARIANTS
 HSA HILL START ASSIST ALL VARIANTS	 360° 360-DEGREE CAMERA ALL VARIANTS	 EPB ELECTRONIC PARKING BRAKE ALL VARIANTS	 CRS/ISOFIX ALL VARIANTS	 VSC VEHICLE STABILITY CONTROL ALL VARIANTS

VEHICLE

Manufacturer : BMW
Model : X3 PHEV & X3
Year : 2022 On
MVI Code : BM183, BM187
& BM188
MRC Times : BM130
Version : MVI230901_M1

DIMENSION



CRASH SAFETY RATING

ASEAN NCAP
NOT TESTED

OTHER NCAP



VEHICLE SPECIFICATIONS

Variant	sDrive20i M Sport	xDrive30i M Sport	xDrive30e M Sport
Price	RM 329,800	RM 374,800	RM 370,800
Engine	16-valve DOHC with Twin-Scroll Turbocharger		
Capacity	1,998 cc		
Power	181 hp at 5,000 rpm	249 hp at 5,200 rpm	181 hp + 108 hp at 5,000 rpm
Torque	300 Nm at 1,350 rpm	350 Nm at 1,450 rpm	300 Nm + 265 Nm at 1,350 rpm
Transmission Type	Conventional Automatic		
MVI Code	BM187	BM183	BM188
TTS Code	BM130		

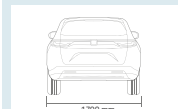
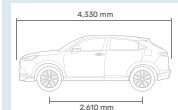
VEHICLE FEATURES

 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS
 ALL VARIANTS	 xDrive30e & xDrive30i	 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS
 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS

VEHICLE

Manufacturer : Honda
Model : HR-V
Year : 2022 On
MVI Code : HD187, HD188
HD189 & HD190
MRC Times : HD128
Version : MVI230901_M1

DIMENSION



CRASH SAFETY RATING



Overall Score
81.38



VEHICLE SPECIFICATIONS

Variant	1.5 S	1.5 Turbo E	1.5 Turbo V	RS e:HEV
Price	RM 114,800	RM 129,800	RM 134,800	RM 140,800
Engine	16-valve DOHC Naturally Aspirated	16-valve DOHC with Turbocharged		16-valve DOHC with Atkinson Cycle and Li-E
Capacity		1,498 cc		1,498 cc + 1.1 kWh
Power	119 hp at 6,600 rpm	174 hp at 6,000 rpm		104 hp + 129 hp at 6,000 rpm
Torque	145 Nm at 4,300 rpm	240 Nm at 1,700 rpm		127 Nm + 235 Nm at 4,500 rpm
Transmission Type	CVT Automatic			eCVT Automatic
MVI Code	HD187	HD188	HD189	HD190
TTS Code	HD128			

VEHICLE FEATURES

 E, V & e-HEV	 ALL VARIANTS	 ALL VARIANTS	 V & e-HEV	 ALL VARIANTS
 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS	 E, V & e-HEV	 ALL VARIANTS
 e-HEV ONLY	 ALL VARIANTS	 ALL VARIANTS	 ALL VARIANTS	 E, V & e-HEV

... Recalls

Proton Recalls X90 for Wiring Defect

Proton has announced a product recall of its X90 model over a wiring defect that could lead to a "Thermal Incident". The incident was investigated by expert teams from Proton and Geely to rectify the grounding connection to the body of the vehicle that led to a viral video of the X90's luggage area emitting smoke.



STATEMENT FROM PROTON

Proton would like to release the following statement regarding the Proton X90.

After a thorough investigation conducted by a team of product experts from PROTON and Geely, an issue has been identified regarding the grounding connection to the body of the vehicle.

This can cause overheating in the connecting area when a continuous large current passes through it and can result in a thermal incident due to its proximity to the sound proofing material.

As a safety measure, all Proton X90 owners will be contacted individually by PROTON 3S/4S dealers to bring their vehicles for inspection and if required, remedial action will be taken by the service centre to eliminate any thermal risk.

Owners can also either call the nearest 3S/4S service centre for an appointment or contact PROTON's helpline at 1-800-88-8398 for more information.

Additionally, PROTON and its vendors have taken countermeasures by enhancing our supplier process control and incoming inspections on the PROTON X90's production line.

Finally, PROTON would like to confirm the mild hybrid (48V) battery used by the Proton X90 is not a source for the incident and would like to reassure everyone, the quality of our products and the safety of our customers is the company's top priority.

According to Proton, this can cause overheating in the connecting area when a continuous large current passes through it and can result in a thermal incident due to the proximity to the soundproofing material.

All Proton X90 owners will be contacted for a preventive inspection by Proton, or they can refer to the nearest service center or helpline for further inspection.

Audi Owners in Malaysia are Urged to Sign Up for the Audi Recognition Plan to be Notified of Recalls.

PHS Automotive Malaysia (PHSAM) is encouraging its customers to register in the Audi Recognition Plan and utilize the myAudi-World apps (iOS, Android, Huawei). According to Deenan Nadar, PHSAM's director of after-sales and network development, this is to ensure owners are notified of any recalls and service actions related to safety while providing them with benefits.

"This is really to support the customers because, from the grey importers, the car is purchased without an official warranty or support from the manufacturer. What we have now is when the car comes in, we do a detailed 133-point check free of charge to check the condition of the car," said Deenan.



"The car then comes into our program and the VIN of the vehicle is added to the system. The benefit to the customer is if the grey import is not registered with Audi, and there is a recall campaign, especially a safety campaign, it will not be known if this car is affected or not," he continued.

"So, it is to the customers' benefit to make sure they take their vehicles to an Audi dealer and get onto the Audi Recognition Plan. The car will be registered in Audi's system and if there are any campaigns, recall campaigns or service action, only then will the VIN be recognized," he added.

According to Deenan, sending a parallel import Audi to an official dealer will also ensure the vehicle is maintained by trained technicians who meet Audi standards and only genuine parts are used. Additionally, vehicles that pass inspection, known as Audi Condition Check (ACC), will also qualify for Audi Plus+, which provides discounts on maintenance services. Other benefits and features of the myAudiWorld apps will also be available to such customers.

Recalls Highlight

Mercedes-Benz Malaysia Recalls for Models Equipped with Takata Airbags

Mercedes-Benz Malaysia (MBM) is conducting a safety recall of potentially affected Takata airbag modules from specific models in compliance with the European-type approval. This measure serves to ensure customers' safety and gain a deeper understanding of the condition of airbag modules in the vehicle after a prolonged period.

Under this exercise, the affected Mercedes-Benz models involved are GLC 300 4Matic (2022-2023), EQS 450+ (2021 - 2023), EQS 450+ and EQS 500 4Matic (2007 - 2023) and C200, C300, E200, E300, GLC200, GLC300 4Matic, GLC300e 4Matic, Maybach S580 4Matic and S580e (2021 - 2023).

According to MBM, the safety of our customers is our top priority. In mid-2019, they decided to execute a worldwide recall of the affected models of Mercedes-Benz Cars, Vans, and MB Trucks. They continue to work closely together with the authorities and Joyson Safety Systems (successor organization Takata) to exchange the latest findings and insights.



Road Transport Department Malaysia (JPJ) announces new list of recalls from vehicle Manufacturers:

- Mercedes-Benz Malaysia - Faulty Takata airbags.
- Audi Malaysia - Faulty Takata airbag.
- Peugeot - Faulty Takata airbag.
- Citroen - Faulty Takata airbag.
- DS - Faulty Takata airbag.
- Nissan - Recall for Airbag Inflator, Spark Plug, Engine Room Harness, and vehicle control module (VCM) software.
- Boon Siew Honda - CBR600RR Fuel Pump: Fuel Pressure Drops.

MRC MALAYSIA IN BRIEF 2023



MRC Kick-off and Business Plan 2023 was held from February 9 to February 13. Concurrent with this event was also held the MRC Team Building 2023.

JALAN SEHALA



MRC Malaysia has initiated the Paint Material Cost Project and had meetings with PPG Coatings in July 31, 2023, Nippon Paint in October 31, 2023 and Axalta Coating in November 6, 2023.



MRC Malaysia has presented in the Asia Motor Insurance and Claims Management Conference organized by Asia Insurance Review which was held at Grand Millennium Hotel, Kuala Lumpur from August 28 to 29, 2023.



MRC Malaysia has visited the Automechanika Shanghai 2023 at National Exhibition and Convention Center, Shanghai, China from November 29 to December 2, 2023.



MRC Malaysia has met with Chery Auto Malaysia for new collaboration on October 10, 2023 at Bukit Damansara.



MRC Malaysia took part as an exhibitor in Malaysia Autoshow 2023, the largest Automotive Exhibition at MAEPS Serdang from May 5 to May 7, 2023.



MRC Malaysia participated in the INAPA 2023 (International Auto Parts, Accessories and Aftermarket Exhibition) which was held at the Jakarta International Expo, Kemayoran, Indonesia, from May 24 to May 26, 2023.



MRC Malaysia participated in the IBIS Global Summit 2023, which was held at the Sheraton Milan San Siro, Italy, from June 28 to June 30, 2023.



MRC Malaysia has presented at RCAR Annual Conference 2023 in Washington DC, USA, sharing the result of MRC Opinion Repair Times Study and MRC Malaysia's Industry Update, Initiatives and Solutions from September 10 to September 15, 2023.



MRC Malaysia has co-organized the IBIS ASEAN 2023 which was held at KL Convention Centre on March 16, 2023. MRC Awards to the industry were also presented during the event.

1 JLN. K. LUMPUR
- IPOH

1 Tg. Malim 21 km
Slim River 42 km
Ipoh 147 km



MRC ACADEMY HIGHLIGHT 2023



MRC Academy has organized an Electric/Hybrid Vehicle Awareness and Hazard Management course from January 10 to 11, 2023 for AmGeneral Insurance's first responders and tow truck personnel.



MRC Academy and the Perak Automobile Workshop Owners' Association (PAWOA) organised a training session for ESnet Academy students at the ESnet Jelapang Campus on May 23, 2023, contributing to National Training Week 2023.



MRC Academy has organised Carsome Apprenticeship course for Carsome Academy on the Automotive Parts Removing and Assembling course from July 31 to August 3, 2023.



The Federal Territory & Selangor Automobile Repairs' Association members attended Level 1 & Level 2: Working Safely on Hybrid/Electric Vehicles program from October 24 to 25, 2023, and from November 8 to 9, 2023.



The Terengganu Foundation's strategic collaboration with MRC Malaysia, YDSM and TESDEC for Electric Vehicle Maintenance program. Sultan Mizan Zainal Abidin witnessed the MoU signing ceremony at The St. Regis, Kuala Lumpur on September 21, 2023.



MRC Academy received students from Kolej Kemahiran Tinggi MARA, Masjid Tanah, Melaka on March 20, 2023, enabling them to explore educational facilities and learn more on industrial practices.



AmGeneral Insurance's Claims Accessors attended Level 3: Award in Electric/Hybrid System Repair and Replacement course from May 10 to 11, 2023.



Carsome Academy participated in the Train The Trainer (TTT) program on Electric/Hybrid Vehicle Awareness and Hazard Management for Emergency and Recovery Personnel from June 20 to 22, 2023.



Insurers and repairers have participated in the Level 3: Award in Electric/Hybrid System Repair and Replacement course, from August 10 to 11, 2023.



MRC Malaysia took part in the EV Safety Awareness, Product Introduction and Technical Highlight Briefing by BAUTO Training School at Glenmarie, Shah Alam on January 18, 2023, together with participants from PIAM, NICS, AMLA and JPI.



MRC MALAYSIA SPORTS CLUB ACTIVITIES 2023



MRC Sport Club has appointed a fresh committee to organise activities, programs and new initiatives throughout the tenure of the Sport Club for the year 2023/2024 on January 9, 2023.



MRC Sport Club arranged a cinema outing at CITTA Mall, Petaling Jaya on June 21, 2023. The cinema provided a chance to enjoy 3D movie experience.



MRC Sport Club hosted an event at District 21, IOI City Mall, Putrajaya on July 8, 2023, taking advantage of the renowned indoor adventure park as an ideal setting for thrilling game.



MRC Sport Club has organised BBQ Staff Lunch and Birthday Celebration on October 26, 2023. All MRC's departments cooperated to prepare the food and beverages during this gathering.



MRC Sport Club's members have participated in the 13th 916 Cycle for Health 2023 event organized by Isuzu Alor Setar on September 16, 2023.



MRC Sport Club has organised a Tazkirah Ramadhan by Ustaz Fauzi at MRC Malaysia on April 4, 2023. The tazkirah offered spiritual enrichment during the month of Ramadhan.



MRC Sport Club has organised an Iftar Ramadhan at Acapella Suite Hotel, Shah Alam on April 15, 2023. It offered a time for reflection, gratitude and bonding among MRC Malaysia's staff and families.



MRC Sport Club hosted Table Tennis Tournament at MRC Malaysia on June 8, 2023. This tournament to promoting active engagement, fun and healthy competition among staff.



MRC Sport Club has arranged Badminton Fun Play Game at TJH Sport Centre, Glenmarie on September 9, 2023 & November 22, 2023. The events created a platform for MRC staff to display skills and enjoy friendly matches.



MRC Sport Club's members have participated and won first place for both men and women categories in the wall climbing competition held on February 12, 2023.

