



## **REPORT OF THE 36<sup>th</sup> MALAYSIA-THAILAND BORDER JOINT GEOLOGICAL SURVEY WORKING GROUP MEETING**

**Park Avenue Hotel, Sungai Petani, Kedah, Malaysia**

**7<sup>th</sup> March 2023**

### **INTRODUCTION**

The 36<sup>th</sup> Malaysia-Thailand Border Joint Geological Survey Working Group Meeting was held on 7<sup>th</sup> March 2023 in Park Avenue Hotel, Sungai Petani, Kedah, Malaysia. The meeting was attended by delegates of the Malaysia and Thailand Working Groups. Lists of delegates appear as per **ANNEX A**.

### **CHAIRMAN AND CO-CHAIRMAN**

The meeting was chaired by Mr. Azemi bin Haji Eki, Department of Mineral and Geoscience Malaysia (JMG) and co-chaired by Mr. Suwith Kosuwan, Department of Mineral Resources (DMR), Thailand.

### **ADOPTION OF AGENDA**

The meeting considered and adopted the Agenda, which appears as per **ANNEX B**.

### **APPOINTMENT OF RAPORTEURS**

Mr. Muhammad Sufi bin Musa and Mr. Muhammad Falah bin Zahri, Malaysian delegates and Ms. Janram Putthasem and Ms. Sirikorn Tawai, Thai delegates were appointed as rapporteurs for the meeting.

**CONFIRMATION POINTS OF DISCUSSION OF THE 35<sup>th</sup> MALAYSIA-THAILAND  
BORDER JOINT GEOLOGICAL SURVEY WORKING GROUP MEETING, HELD  
ON 9<sup>th</sup> AUGUST 2022 VIA VIDEO CONFERENCE HOSTED BY DEPARTMENT OF  
MINERAL AND GEOSCIENCE, MALAYSIA.**

## **POINTS OF DISCUSSION**

1. The meeting revised the activities of the work plan (the year 2021–2025) as appear in **ANNEX C**.
2. The meeting confirmed that the compilation of Malaysia-Thailand metallogenic maps including strategic minerals (REE) carried out in the year 2020-2025 and reported its progress annually.
3. The meeting confirmed that the geoheritage mapping and geopark development in Malaysia and Thailand carried out in 2023-2025. The Malaysian and Thai Working Group will share their activities on Geoheritage Mapping and Geopark Development in both countries. Format of the report will be discussed later via online meeting.
4. The meeting confirmed that the Stratigraphic Correlation and Fossil Assemblages between the Chuping Formation and the Khao Rub Chang Formation is carried out in 2023-2025.
5. The meeting confirmed that the Case Study on Geological Hazard: Debris Flow has been carried out in the year 2022 and will continue until 2024.
6. The meeting confirmed that the Training on Remote Sensing will be held on 15<sup>th</sup> June 2023 virtually hosted by Thailand via zoom application. The link will be provided later.
7. The meeting confirmed that the Training on Palynology will be held on 8<sup>th</sup> May 2023 virtually hosted by Malaysia. The Thailand and Malaysian resource persons will be invited to conduct the training virtually.
8. The meeting agreed that the Training on Geoheritage Mapping will be held on 5<sup>th</sup> – 9<sup>th</sup> June 2023 hosted by Malaysia virtually.

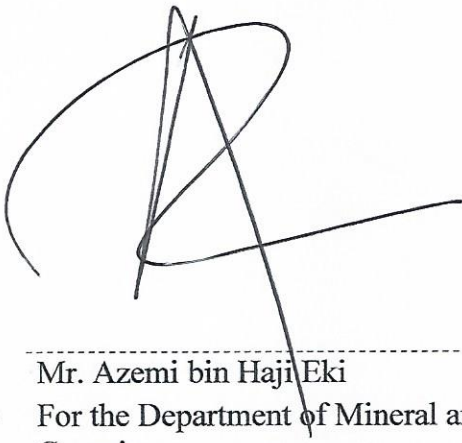
9. The meeting confirmed that the Training on Foraminifera will be held in 2024 hosted by Thailand.
10. The meeting confirmed that the Training on Dinosaur Study will be held in 2024 hosted by JMG Malaysia. The Thailand resource person will be invited to conduct the training.
11. The meeting acknowledged that Webinar on Geohazard Study using LANDSAT or other remote sensing techniques and some field evidences hosted by Thailand in 2023 is cancelled and will be combined with another conference/webinar.
12. The meeting confirmed that the Development of Database on Geological Resources along the Malaysia-Thailand border (geology, minerals, geosites/fossil sites and geohazards) is ongoing using the webGIS/GSi platform which has been developed under the initiative of CCOP from the year 2021-2025. The meeting agreed that Malaysia and Thailand will use the same portal.
13. The meeting confirmed that the upcoming 37<sup>th</sup> Malaysia-Thailand Border Joint Geological Survey Working Group Meeting and the 20<sup>th</sup> MT-JGSC Meeting will be held at Seesea Resort, Satun Province hosted by Thailand on 21<sup>st</sup> - 25<sup>th</sup> August 2023.
14. The meeting agreed that the Gemology Training (Practical) to be hosted by Thailand in 2023 will be postponed to 2024. The venue and the date will be confirmed later.

**Other Matters:**

None.

**COMPLETION OF THE MEETING**

The meeting completed and adjourned at 5.30 pm (Malaysia time).



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Mr. Azemi bin Haji Eki  
For the Department of Mineral and  
Geoscience,  
Ministry of Natural Resources, Environment  
and Climate Change, Malaysia.  
7<sup>th</sup> March 2023



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Mr. Suwith Kosuwan  
For the Department of Mineral  
Resources,  
Ministry of Natural Resources and  
Environment, Thailand.  
7<sup>th</sup> March 2023

**THE 36<sup>TH</sup> MALAYSIA-THAILAND BORDER  
JOINT GEOLOGICAL SURVEY WORKING GROUP MEETING  
Tuesday 7<sup>th</sup> March 2023, in Park Avenue, Sungai Petani, Kedah, Malaysia**

**MALAYSIAN DELEGATION**

No.	Name	Office
1.	Mr. Azemi bin Haji Eki	Senior Director, Technical Services Division, JMG ( <b>Head of Malaysian Delegation</b> )
2.	Mr. Mat Niza bin Abdul Rahman	Deputy Director (Geoscience), JMG Perak State ( <b>Malaysian Working Group Leader</b> )
3.	Mr. Hamdan bin Ariffin	Deputy Director (Mineral Resources), JMG Kedah/Perlis/Penang States
4.	Mr. Hamlee bin Ismail	Deputy Director (Geoscience), JMG Terengganu State
5.	Mrs. Nor Asmah binti Abdul Aziz	Principal Assistant Director, Technical Services Division, JMG
6.	Mr. Hamid bin Ariffin	Principal Assistant Director, JMG Sabah State
7.	Mrs. Nur Susila bt. Md Saaid	Senior Assistant Director, JMG Kedah/Perlis/Penang States
8.	Mrs. Suzannah bt. Akmal	Senior Assistant Director, GIS and Cartography Unit, Technical Services Division, JMG
9.	Mr. Farid bin Zainudin	Senior Assistant Director, JMG Perak State
10.	Mr. Razaidi Shah bin A Kadir	Senior Assistant Director, JMG Kedah/Perlis/Penang States
11.	Mr. Amir Mizwan bin Mohd Akhir	Senior Assistant Director, JMG Perak State
12.	Mr. Saiful Bin Abdullah	Senior Assistant Director, JMG Perak State
13.	Mr. Fakhrudin Afif bin Fauzi	Senior Assistant Director, JMG Kedah/Perlis/Penang States
14.	Mrs. Nurul Amalina binti Md. Nor	Assistant Director, JMG Perak State
15.	Mr. Muhamad Falah bin Zahri	Assistant Director, Technical Services Division, JMG
16.	Mr. Mohd Faiz bin Ahmad Rosdi	Assistant Director, JMG Head Quarters
17.	Ms. Atilia bt. Bashardin	Assistant Director, JMG Kelantan State
18.	Mr. Muhammad Sufi bin Musa	Assistant Director, Technical Services Division, JMG

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**THAI DELEGATION**

No.	Name	Position
1.	Mr. Suwith Kosuwan	Senior Expert on Mineral Resources Management <b>(Head of Thai Delegation)</b>
2.	Dr. Apsorn Sardud	Director of Geological Survey Division
3.	Prof. Emeritus Dr. Punya Charusiri	Senior Expert on Mineral Management
4.	Dr. Doungrutai Saesaengseerung	Senior Professional Geologist <b>(Thai Working Group Leader)</b>
5.	Ms. Janram Putthasem	Senior Professional Policy and Plan Analyst
6.	Dr. Tawatchai Chualaowanich	Senior Professional Geologist
7.	Mr. Kitti Khaowiset	Senior Professional Geologist
8.	Mr. Jirasak Charoenmit	Senior Professional Mineral Resources Technical Officer
9.	Dr. Sasiwimol Nawawitphisit	Senior Professional Geologist
10.	Ms. Sirikorn Tawai	Practitioner Geologist



**THE 36<sup>th</sup> MALAYSIA-THAILAND BORDER JOINT GEOLOGICAL SURVEY  
WORKING GROUP MEETING: PARK AVENUE HOTEL, SUNGAI PETANI,  
KEDAH, MALAYSIA**

**AGENDA**

- ITEM 1 Confirmation of point of discussion on the 35<sup>th</sup> Malaysia-Thailand Border Joint Geological Survey Working Group Meeting
- ITEM 2 Matters arising from the point of discussion of the 35<sup>th</sup> Malaysia-Thailand Border Joint Geological Survey Working Group Meeting
- ITEM 3 Review of work plan for the years 2021 - 2025
- ITEM 4 Date and venue of 37<sup>th</sup> Malaysia-Thailand Border Joint Geological Survey Working Group Meeting and the 20<sup>th</sup> MT-JGSC Meeting to be held in Satun, Thailand, August 2023
- ITEM 5 Other Matter

Programmes	Year 2021 (2564)	Year 2022 (2565)	Year 2023 (2566)	Year 2024 (2567)	Year 2025 (2568)
1. Geology and mineral resources along Malaysia-Thailand border	Compilation of Malaysia - Thailand metallogenic maps including strategic minerals (REE)				Extend REE or new kind of minerals
2. Geo-conservation and Geo-Tourism Activities	Compilation of geological sites potential for geotourism along Malaysia-Thailand border		Geoheritage mapping and geopark development in Malaysia and Thailand		
3. Cooperative study and geological research in term of stratigraphy, paleontology, and sedimentology.	Stratigraphic correlation and fossil assemblages between the Timah Tasoh Formation and the Pa Samed Formation.		Stratigraphic correlation and fossil assemblages between the Chuping Formation and the Khao Rub Chang Formation		
4. Study on geological hazards	Case study on Geological Hazard in Karst Areas				
		Case study on Geological Hazard: Debris Flow			
5. Capacity building		<ul style="list-style-type: none"> <li>• Training on Karst Morphology Mapping using LIDAR Technology in Bangkok, Thailand -expert from Malaysia</li> <li>• Training on Gemology in Thailand</li> </ul>	<ul style="list-style-type: none"> <li>• Training on Remote Sensing in Thailand, online</li> <li>• Training on Palynology in Malaysia, online</li> <li>• Training on Geoheritage Mapping in Malaysia</li> <li>• Training on REE determination in geological samples</li> </ul>	<ul style="list-style-type: none"> <li>• Training on Foraminifera in Thailand</li> <li>• Training on Dinosaur in Malaysia – expert from Thailand</li> <li>• Training Gemology (practical)</li> </ul>	
6. Information sharing and outreaching	<ul style="list-style-type: none"> <li>• National Geoscience Conference 2021: 4-8 April 2021 (virtual)</li> <li>• Geotourism Research trend in Thailand and Asia: 23 July 2021 (virtual)</li> <li>• Geothai National Conference 2021: 4-6 August 2021(virtual)</li> </ul>	<ul style="list-style-type: none"> <li>• The 7<sup>th</sup> Asia Pacific Geoparks Network (APGN) Symposium in Satun, Thailand, 4<sup>th</sup> -11<sup>th</sup> September 2022</li> <li>• XVII GEOSEA 2022 &amp; 34<sup>th</sup> National Geoscience Conference in Langkawi, Malaysia, 17<sup>th</sup> -21<sup>st</sup> October 2022.</li> </ul>	<ul style="list-style-type: none"> <li>• Geothai National Conference (Online)</li> <li>• National Geoscience Conference in Malaysia</li> </ul>	Presenting papers at national and international seminars/conferences <ul style="list-style-type: none"> <li>• Geothai National Conference</li> <li>• National Geoscience Conference in Malaysia</li> </ul>	Presenting papers at national and international seminars/conferences <ul style="list-style-type: none"> <li>• Geothai National Conference</li> <li>• National Geoscience Conference in Malaysia</li> </ul>
7. Development of database on geological resources along the Malaysia-Thailand border	Development of database on: a. geology b. minerals c. geosites/fossil sites d. geohazards				
8. Working Group Meeting and Committee Meeting	<ul style="list-style-type: none"> <li>• The 32<sup>nd</sup> Working Group Meeting, 27 April 2021 – online, hosted by Malaysia</li> <li>• The 33<sup>rd</sup> Working Group Meeting, 14 September 2021 – online, hosted by Thailand</li> <li>• The 18<sup>th</sup> Committee Meeting, 15 September 2021 – online, hosted by Thailand</li> </ul>	<ul style="list-style-type: none"> <li>• The 34<sup>th</sup> Working Group Meeting, 24<sup>th</sup> March 2022, online, hosted by Thailand</li> <li>• Joint report editing in Malaysia, 5<sup>th</sup> -7<sup>th</sup> July 2022</li> <li>• The 35<sup>th</sup> Working Group Meeting, 9<sup>th</sup> August 2022, online, hosted by Malaysia</li> <li>• The 19<sup>th</sup> Committee Meeting, online, hosted by Malaysia</li> </ul>	<ul style="list-style-type: none"> <li>• The 36<sup>th</sup> Working Group Meeting, 6<sup>th</sup> – 10<sup>th</sup> March 2023, Sungai Petani, Kedah, Malaysia</li> <li>• The 37<sup>th</sup> Working Group Meeting and the 20<sup>th</sup> Committee Meeting, 21<sup>st</sup> – 25<sup>th</sup> August 2023, in Satun, Thailand</li> </ul>	<ul style="list-style-type: none"> <li>• The 38<sup>th</sup> Working Group Meeting in Thailand</li> <li>• Joint report editing in Malaysia</li> <li>• The 39<sup>th</sup> Working Group Meeting in Malaysia</li> <li>• The 21<sup>st</sup> Committee Meeting in Malaysia</li> </ul>	<ul style="list-style-type: none"> <li>• The 40<sup>th</sup> Working Group Meeting in Malaysia</li> <li>• Joint report editing in Thailand</li> <li>• The 41<sup>st</sup> Working Group Meeting in Thailand</li> <li>• The 22<sup>nd</sup> Committee Meeting in Thailand</li> </ul>