



REPORT OF THE 37th MALAYSIA-THAILAND BORDER JOINT GEOLOGICAL SURVEY WORKING GROUP MEETING

Seesea Resort, Satun, Thailand

22nd August 2023

INTRODUCTION

The 37th Malaysia-Thailand Border Joint Geological Survey Working Group Meeting was held on 22nd August 2023 in Seesea Resort, Satun, Thailand. 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 Dr. Apsorn Sardsud, Department of Mineral Resources (DMR), Thailand, and co-chaired by Mr. Mat Niza bin Abdul Rahman, Department of Mineral and Geoscience Malaysia (JMG).

ADOPTION OF AGENDA

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

APPOINTMENT OF RAPORTEURS

Dr. Sasiwimol Nawawitphisit and Mr. Jakrapun Khamboonruang, Thai delegates and Mr. Farid bin Zainudin and Assoc. Prof. Dr. Meor Hakif bin Amir Hassan were appointed as rapporteurs for the meeting.

**CONFIRMATION POINTS OF DISCUSSION OF THE 36th MALAYSIA-THAILAND
BORDER JOINT GEOLOGICAL SURVEY WORKING GROUP MEETING, HELD
ON 7th MARCH 2023 BY DEPARTMENT OF MINERAL AND GEOSCIENCE
MALAYSIA (JMG) IN PARK AVENUE HOTEL, SUNGAI PETANI, KEDAH,
MALAYSIA.**

POINTS OF DISCUSSION

1. The meeting revised the activities of the work plan (the year 2022–2026) 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 2020–2024 and final report will be completed in 2024.
3. Case study on REE in Malaysia and Thailand will be carried out in 2025–2026.
4. 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. Joint report editing will be carried out in 2025.
5. Case study on Geopark development in Malaysia and Thailand will be carried out in 2026.
6. 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. Joint report editing will be carried out in 2025.
7. Granite correlation along Malaysia-Thailand border will be carried out in 2026.
8. The meeting confirmed that the Case Study on Geological Hazard: Debris Flow has been carried out in the year 2022–2024 and final report will be completed in 2024.
9. Case study on Geological Hazard: Coastal erosion will be carried out in 2025–2026.
10. The meeting confirmed capacity buildings will be carried out as follows:
 - Training on Foraminifera will be held in 2024 hosted by Thailand (Online).
 - Training on Dinosaur Study will be held in September 2024 hosted by JMG Malaysia. The Thailand resource person will be invited to conduct the training. Actual date and venue will be confirmed later.
 - Training Gemology (practical) in Thailand, September 2024.
 - Training on REE survey in Thailand in 2025 (invite 1-2 experts from Malaysia).
 - Training on igneous petrography & petrology hosted by Malaysia in 2025 (online).
11. The meeting took note the information sharing and outreaching:
 - GEOTHAI National Conference (Online), 5th -7th September 2023

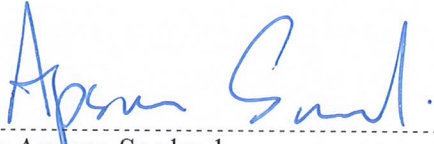
- National Geoscience Conference in Putrajaya, Malaysia, 7th -10th November 2023
 - Regional Geoheritage Conference (RGC) in Indonesia (depends on host)
 - 10th GGN Conference in Morocco, 7th -9th September 2023
 - CCOP Thematic Session in Thailand, 1st November 2023
 - GEOTHAI National Conference (2024-2026)
 - National Geoscience Conference in Malaysia (2024-2026)
 - 18th GEOSEA 2024 Conference in Khon Kaen, Thailand (20th -23rd February 2024)
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 agreed that the Malaysia-Thailand Border Joint Geological Survey Working Group Meeting will be held online in March every year, beginning in 2024 and hosted alternately by Malaysia and Thailand.
 14. The meeting confirmed that the upcoming 38th Malaysia-Thailand Border Joint Geological Survey Working Group Meeting will be hosted by Thailand (online), 14th March 2024.
 15. The meeting confirmed Joint report editing will be carried out online by separating into 2 working groups in May:
 - Metallogenic map (hosted by Malaysia side, 2nd week of May 2024)
 - Debris flow (hosted by Thai side, 3rd week of May 2024)
 16. The meeting confirmed that the upcoming 39th Malaysia-Thailand Border Joint Geological Survey Working Group Meeting and 21st Committee Meeting will be held in Kangar, Perlis, Malaysia in August 2024. Actual date and venue will be confirmed later.

Other Matters:


None.

COMPLETION OF THE MEETING

The meeting completed and adjourned at 5:00 pm (Thai time).



Dr. Apsorn Sardud
For the Department of Mineral
Resources,
Ministry of Natural Resources and
Environment, Thailand.
22nd August 2023



Mr. Mat Niza bin Abdul Rahman
For the Department of Mineral and
Geoscience,
Ministry of Natural Resources,
Environment and Climate Change,
Malaysia.
22nd August 2023

**THE 37th MALAYSIA-THAILAND BORDER JOINT GEOLOGICAL SURVEY
WORKING GROUP MEETING**

DATE : **Tuesday 22nd August 2023**
TIME : **08:00-17:00 (Thai Time)**
VENUE : **Sea-2 Meeting Room, 2nd Floor, Seesea Resort, La-gu, Satun, Thailand**

THAI DELEGATION

No.	Name	Position
1	Dr. Apsorn Sardsud	Director of Geological Survey Division (Head of Thai Delegation)
2	Dr. Dhiti Tulyatid	Senior Expert on International Cooperation
3	Prof. Emeritus Dr. Punya Charusiri	Senior Expert on Mineral Management
4	Mr. Chaiporn Siripornpibul	Senior Expert on Geo-conservation
5	Dr. Doungrutai Saesaengseerung	Geologist (Senior Professional Level) (Thai Working Group Leader)
6	Mr. Terapon Wongprayoon	Geologist (Senior Professional Level)
7	Ms. Janram Putthasem	Policy and Plan Analyst (Senior Professional Level)
8	Mr. Jirasak Charoenmit	Mineral Resources Technical Officer (Senior Professional Level)
9	Dr. Sasiwimol Nawawitphisit	Geologist (Senior Professional Level)
10	Ms. Chanchana Khamcha	Geologist (Senior Professional Level)
11	Mr. Jakrapun Khamboonruang	Scientist (Professional Level)

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MALAYSIAN DELEGATION

No.	Name	Position
1	Mr. Mat Niza bin Abdul Rahman	Deputy Director (Geoscience), JMG Perak State (Malaysian Working Group Leader/Head of Delegation)
2	Mr. Farid bin Zainudin	Senior Assistant Director, JMG Perak State
3	Assoc. Prof. Dr. Meor Hakif bin Amir Hassan	Associate Professor, Department of Geology, University of Malaya (UM)



**THE 37th MALAYSIA-THAILAND BORDER JOINT GEOLOGICAL SURVEY
WORKING GROUP MEETING**

AGENDA

- ITEM 1 Assumption of the Chairmanship
- ITEM 2 Adoption of Agenda
- ITEM 3 Confirmation of Points of Discussion of the 36th Malaysia-Thailand Working Group Meeting
- ITEM 4 Matters arising from the Points of Discussion of the 36th Malaysia-Thailand Border Joint Geological Survey Working Group Meeting
- ITEM 5 Review of Work Plan for the year 2022-2026
- ITEM 6 Date and venue of the oncoming 38th Malaysia-Thailand Border Joint Geological Survey Working Group Meeting, hosted by DMR, Thailand in March 2024
- ITEM 7 Date and venue of the oncoming 39th Malaysia-Thailand Border Joint Geological Survey Working Group Meeting and 21th MT-JGSC Meeting, hosted by JMG, Malaysia in August 2024
- ITEM 8 Other matters

MALAYSIA-THAILAND JOINT BORDER GEOLOGICAL SURVEY PROPOSED WORK PLAN 2022-2026

ANNEX C

Programmes	Year 2022 (2565)	Year 2023 (2566)	Year 2024 (2567)	Year 2025 (2568)	Year 2026 (2569)
1. Geology and mineral resources along Malaysia-Thailand border	Compilation of Malaysia - Thailand metallogenic maps including strategic minerals (REE)			Case study on REE in Malaysia and Thailand	
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			Case study on 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			Granite Correlation along Malaysia-Thailand border
4. Study on geological hazards	Case study on Geological Hazard: Debris Flow			Case study on Geological Hazard: Coastal Erosion	
5. Capacity building	<ul style="list-style-type: none"> • Training on Karst Morphology Mapping using LIDAR Technology in Bangkok, Thailand -expert from Malaysia • Training on Gemology in Thailand 	<ul style="list-style-type: none"> • Training on Remote Sensing in Thailand, online • Training on Palynology in Malaysia, online • Training on Geoheritage Mapping in Malaysia • Training on REE determination in geological samples 	<ul style="list-style-type: none"> • Training on Foraminifera in Thailand (Online) • Training on Dinosaur in Malaysia – expert from Thailand (September) • Training Gemology (practical) in Thailand 	<ul style="list-style-type: none"> • Training on REE survey in Thailand (invite experts 1-2 persons from Malaysia) • Training on igneous petrography & petrology hosted by Malaysia (online) 	
6. Information sharing and outreaching	<ul style="list-style-type: none"> • The 7th Asia Pacific Geoparks Network (APGN) Symposium in Satun, Thailand, 4th -11th September 2022 • XVII GEOSEA 2022 & 34th National Geoscience Conference in Langkawi, Malaysia, 17th - 21st October 2022. 	<ul style="list-style-type: none"> • Geothai National Conference (Online), 5th-7th September 2023 • National Geoscience Conference in Putrajaya, Malaysia, 7th -10th November 2023 • Regional Geoheritage Conference (RGC) in Indonesia (depends on host) • 10th GGN Conference in Morocco, 7th-9th September 2023 • CCOP Thematic Session in Thailand, 1st November 2023 	Presenting papers at national and international seminars/conferences <ul style="list-style-type: none"> • Geothai National Conference • National Geoscience Conference in Malaysia • 18th GEOSEA 2024 Conference in Khonkaen, Thailand (20-23 February 2024) 	Presenting papers at national and international seminars/conferences <ul style="list-style-type: none"> • Geothai National Conference • National Geoscience Conference in Malaysia 	Presenting papers at national and international seminars/conferences <ul style="list-style-type: none"> • Geothai National Conference • National Geoscience Conference in Malaysia
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"> • The 34th Working Group Meeting, 24th March 2022, online, hosted by Thailand • Joint report editing in Malaysia, 5th -7th July 2022 	<ul style="list-style-type: none"> • The 36th Working Group Meeting, 6th – 10th March 2023, Sungai Petani, Kedah, Malaysia 	<ul style="list-style-type: none"> • The 38th Working Group Meeting hosted by Thailand (Online), 14 March 2024 	<ul style="list-style-type: none"> • The 40th Working Group Meeting hosted by Malaysia (Online) • Joint report editing in Thailand 	<ul style="list-style-type: none"> • The 42nd Working Group Meeting hosted by Thailand (Online) • Joint report editing in Malaysia

	<ul style="list-style-type: none"> • The 35th Working Group Meeting, 9th August 2022, online, hosted by Malaysia • The 19th Committee Meeting, online, hosted by Malaysia 	<ul style="list-style-type: none"> • The 37th Working Group Meeting and the 20th Committee Meeting, 21st – 25th August 2023, in Satun, Thailand 	<ul style="list-style-type: none"> • Joint report editing online by separating into 2 working groups in May: <ul style="list-style-type: none"> -Metallogenic map (hosted by Malaysia side, 2nd week of May) -Debris flow (hosted by Thai side, 3rd week of May) • The 39th Working Group Meeting in Kangar, Perlis, Malaysia in August 2024. • The 21st Committee Meeting in Malaysia 	<ul style="list-style-type: none"> • The 41st Working Group Meeting in Thailand • The 22nd Committee Meeting in Thailand 	<ul style="list-style-type: none"> • The 43rd Working Group Meeting in Malaysia • The 23rd Committee Meeting in Malaysia
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