

DEPARTMENT OF IRRIGATION  
AND DRAINAGE MALAYSIA

## Minutes of Meeting

# **The 39<sup>th</sup> Meeting of Thailand - Malaysia Joint Technical Working Group on the Golok River Mouth Improvement Project**

12 September 2023

Sunsuri Hotel, Phuket, Thailand

Hybrid conference

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**Minutes of Meeting**  
**The 39<sup>th</sup> Meeting of Thailand - Malaysia**  
**Joint Technical Working Group**  
**On The Golok River Mouth Improvement Project**  
**12 September 2023**  
**Sunsuri Hotel, Phuket, Thailand**  
**Hybrid conference**

**AGENDA 1: OPENING ADDRESS**

Mr. Wittaya Kaewmee, Deputy Director General for Engineering, Royal Irrigation Department, Thailand, the leader of the Thai delegates welcomed the Malaysian delegates to the 39<sup>th</sup> Meeting of Thailand - Malaysia Joint Technical Working Group on the Golok River Mouth Improvement Project which was held on 11-14 September 2023 in Phuket, Thailand.

Dato' Ir. Sabri bin Abdul Mulok, Deputy Director General (Business Sector), Department of Irrigation and Drainage Malaysia, the leader of the Malaysian delegates expressed his appreciation for the warm welcome and arrangements for the Meeting.

Both sides introduced their delegates to the Meeting. The list of delegates is shown in **APPENDIX A**.

**AGENDA 2: ADOPTION OF PROPOSED AGENDA**

The Meeting adopted the proposed agenda as shown in **APPENDIX B**.

**AGENDA 3: MATTERS FOR INFORMATION**

**3.1 Report of Monitoring and Evaluation of Golok River Mouth**

The Malaysian side reported the result of the pre-monsoon survey, which was done by the Malaysian side in September 2022, and found that the sea bed level at the

Malaysia breakwater tip increased from -2.7m MSL (Post-Monsoon in April 2022) to -3.0m MSL (Pre-Monsoon in September 2022) while erosion at Thailand breakwater tip decreased from -5.9 m MSL (Post-Monsoon in April 2022) to -5.8m MSL (Pre-Monsoon in September 2022). The deepest riverbed level around Transit Point B also increased from -7.3m MSL (Post-Monsoon in April 2022) to -7.4m MSL (Pre-Monsoon in September 2022).

The Thai side presented to the Meeting about the background, objective, and component of task force team. The revised member and timeline of task force team as shown in **APPENDIX C** and **APPENDIX D**.

### **Discussion by JTWG**

The Meeting acknowledged:

1. The report of pre-monsoon survey in 2022 – 2023 done by Malaysian side.
2. The revised member and timeline of task force team.

The Meeting agreed that:

1. The monitoring survey is to be continued and the Joint Evaluation Team (JET) will continue analyzing the dynamic phenomenon at the river mouth, sedimentation, and the erosion at the tip of breakwater in Thailand.

## **3.2 Maintenance Dredging of Golok River Mouth**

### **Criteria For Maintenance Dredging**

As agreed in the 25<sup>th</sup> JET, 32<sup>nd</sup> JTWG, and 14<sup>th</sup> JSC meetings, the maintenance dredging is required based on the following criteria:

- (1) When the cross-section area of the river mouth between Thai and Malaysian breakwater tips is blocked by sediment up to 30% (based on Thai study); or
- (2) When the riverbed level of the river mouth is at -2.0 m MSL or shallower (based on Malaysian study);

The sediment patterns are to be monitored for at least 2 consecutive monsoon seasons to identify the need for maintenance dredging.

### **Report by JET**

The Malaysian side reported that the result based on the pre-monsoon (September 2022) surveys as shown in **APPENDIX E**, **APPENDIX F**, and **APPENDIX G** that no maintenance dredging is required for the time being at Golok River Mouth.

### **Discussion by JTWG**

The Meeting agreed that:

1. According to the pre-monsoon survey (September 2022), there is no need for the maintenance dredging at Golok River Mouth.

## **3.3 Mutual Calibration of Golok River Mouth**

### **Report by JET**

The Thai side reported that:

1. 16 mutual gauging had been done in 2022. The results of 2022 mutual gauging data as shown in **APPENDIX H**. The record of maximum discharge was **307.679 m<sup>3</sup>/s** at the **9.240 m** stage on 12 December 2022.
2. The engineering cross-section survey, which carried out annually in March, showed that there is no significant change in Golok riverbed at the cableway station as shown in **APPENDIX I**.
3. The mutual rating curve of year 2022 was completed as shown in **APPENDIX J**.

### **Discussion by JTWG**

The Meeting acknowledged that:

1. The results of 2022 mutual gauging data and the maximum discharge recorded.
2. The result of Cross-section survey at cable way station.

The Meeting agreed that:

1. The mutual rating curve of year 2022

### **3.4 Real-Time Monitoring System and Joint Website for Golok River Basin**

#### **Report by JET**

1. The Thai side reported that fourteen (14) telemetry stations and hydrological datum have been shared on the Golok joint website (<http://h2o.water.gov.my>).

2. The Thai side reported that Thai six (6) hydrological stations are offline due to the equipment failure, and the Thai side planned for their maintenance in 2024 – 2025.

3. To gain additional hydrological information, the Thai side proposes to install four (4) small scale telemetry stations in Golok River basin. The positions for these new telemetry stations are shown in **APPENDIX K**.

#### **Discussion by JTWG**

The meeting acknowledged that:

1. There are fourteen (14) telemetry hydrological telemetry stations shared on the joint website.

2. Thai six (6) hydrological stations are offline due to equipment failure and are planned to be maintenance in 2024 – 2025.

3. The Thai side planned to install new four (4) small scale telemetry stations to gain additional hydrological information

### **3.5 Flood Problem in Golok River Basin**

#### **Report by JET**

Both sides reported that they finished exchanging their necessary information on the flood wall on 14 November 2022. The 38<sup>th</sup> JET Meeting was proposed and agreed to drop this agenda from the next JET Meeting.

#### **Discussion by JTWG**

The Meeting acknowledged that:

1. Both sides finished exchanging their necessary information on the flood wall on 14 November 2022.

The Meeting agreed that:

1. The JTWG Meeting will drop this agenda from the next Meeting.

### **3.6 Integrated River Basin Management (IRBM) Plan for Golok River Basin**

The Meeting noted that the 17<sup>th</sup> JSC Meeting agreed to remove the agenda of the Integrated River Basin Management (IRBM) Plan for Golok River from the JSC Meeting. And this matter would be further discussed in the different platform.

#### **Discussion by JTWG**

The Meeting acknowledged that:

1. JSC dropped agenda on IRBM from their meeting since it should be discussed in another platform.

The Meeting adopted that:

1. The agenda about IRBM will be dropped from the next JTWG Meeting.

### **AGENDA 4: MATTERS FOR CONSIDERATION**

#### **4.1 Rehabilitation and Protection Works at Golok River Mouth**

##### **Refer to Minutes of JSC-17 (JUNE 2023)**

1. The Thai side informed that the EIA report was approved in August 2021. The budget request for the project is already approved, and the construction is expected to start in the third quarter of 2023 (August/September 2023) in order to avoid the monsoon season.

2. The Malaysian side agreed with the proposed date for the construction and the construction will commence simultaneously with Thailand as per agreed.

#### **Report by JET**

After the 17<sup>th</sup> JSC Meeting on 22 June 2023, the roadmap was revised as shown in **APPENDIX L**, and both sides agreed to start their construction in 2023.

In detail, the Thai side would mobilize construction equipment and machinery to prepare the site until the end of the monsoon season, and then start the construction in 2024.



The Malaysian side accepted the revised roadmap and expected both sides could process their construction following the roadmap.

#### **Discussion by JTWG**

The Meeting acknowledges that:

1. Construction timeline was endorsement by JSC.

The Meeting agreed that:

1. JET will conduct the construction following the roadmap.

#### **4.2 Protection Works at Transit Point B**

Refer to Minutes of JSC-17 (JUNE 2023)

The Meeting acknowledged and agreed that the Malaysian side needed more time to study and prepare the proposed supplementary agreement to the Thai side and would report to the next JSC meeting.

#### **Discussion by JTWG**

The Meeting acknowledged that:

1. Malaysian side informed the meeting that:
  - Transit Point B is another name for Boundary Point B
  - Coordinates Boundary Point B were stated in Treaty Between Malaysia and the Kingdom of Thailand Relating to the Delimitation of the Territorial Seas of the Two Countries dated 24 October 1979
  - Boundary Point B is the end point of the land boundary and the starting point of the maritime boundary between Malaysia and Thailand
  - The position of Boundary Point B was marked in July 1988 while construction was completed in June 1989
  - Department of Survey and Mapping of Malaysia and the Hydrographic Department of Thailand are the competent authorities to determine the position of the points mentioned in the 1979 Treaty

- The accuracy of Boundary Point B was checked in 2000 and confirmed to be in the original position where the displacement is less than 5 cm.

- In this regard, any protection works to strengthen Boundary Point B that will be carried out later shall not disturb its position.

The Meeting agreed that:

1. Malaysian side proposed to visit the Transit Point B to gather information from the actual site and invited representatives from Thailand to join site visit to provide additional information. The Thai side accepted the invitation.

2. Thai side proposed three (3) options about arrangement after the completion of the site visit. They are:

(i) use existing agreement of 1997

(ii) draft supplementary agreement, attached with the existing agreement

(iii) Malaysian side draft an all-new agreement, and forward to Thai side for consideration.

## **AGENDA 5: OTHER MATTERS**

### **5.1 Date and venue for the next JTWG meeting**

The Meeting agreed to venue the 40<sup>th</sup> JTWG Meeting as follows:

Host: Malaysia

Proposed date: August 2024

Proposed venue: **1) Melaka**

2) Johor Bahru

3) Pulau Langkawi

## **5.2 Date and venue for the next JSC meeting**

The Meeting proposed to venue the 18<sup>th</sup> JSC Meeting as follows:

Host: Malaysia  
Proposed date: October 2025  
Proposed venue: **Pulau Pinang**

## **AGENDA 6: MATTERS TO BE REFERRED TO THE JSC**

### **Matters for information**

1. Report of Monitoring and Evaluation of Golok River Mouth
2. Maintenance Dredging of Golok River Mouth
3. Mutual Calibration of Rating Curve at Cableway Station
4. Real Time Monitoring System and the Joint Website for Golok River Basin
5. Rehabilitation and Protection Works at Golok River Mouth

### **Matters for Consideration**

1. Protection Work at Transit Point B

## **AGENDA 7: ADOPTION OF MINUTES OF THE MEETING**

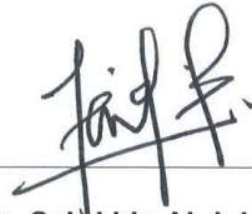
The Meeting agreed to adopt the minutes of meeting of the 39<sup>th</sup> Meeting of Thailand – Malaysia Joint Technical Working Group (JTWG) on the Golok River Mouth Improvement Project.



**(Mr. Wittaya Kaewmee)**

Co-Chairman

Joint Technical Working Group, Thailand  
Deputy Director General  
for Engineering  
Royal Irrigation Department  
Thailand



**(Dato' Ir. Sabri bin Abdul Mulok)**

Co-Chairman

Joint Technical Working Group, Malaysia  
Deputy Director General  
(Business Sector)  
Department of Irrigation and Drainage  
Malaysia

## APPENDIX A

### THE 39<sup>TH</sup> MEETING OF THAILAND - MALAYSIA JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

#### LIST OF THAI DELEGATES

1.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Wittaya Kaewmee</b> Deputy Director General for Engineering Royal Irrigation Department +669 4693 9155 wittaya.shell48@gmail.com
2.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Surachat Marasri</b> Director Bureau of Project Management, Royal Irrigation Department +668 1871 9703 surachatmalasri39@gmail.com
3.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Kerksak Lee Na Non</b> Director, Phuket Provincial Irrigation Office Royal Irrigation Department +666 1963 5542 maew_50@hotmail.com
4.		Name: Designation: Department: Contact no. : E-mail:	<b>Acting Lt. Tanasakda Tuptone</b> Director, Hydrology Irrigation Center (Southern Region) Royal Irrigation Department +669 9481 5558 ridmanhydro@gmail.com
5.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Kanchadin Srpratoom</b> Advisor (Foreign Relations) Royal Irrigation Department +668 1721 0034 kanchadin@yahoo.com

## APPENDIX A

### THE 39<sup>TH</sup> MEETING OF THAILAND - MALAYSIA JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

#### LIST OF THAI DELEGATES

6.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Attapan Diloksopon</b> Director, Foreign Project Management and International affairs Division Bureau of Project Management Royal Irrigation Department +668 0270 9997 atpdlk@gmail.com
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8.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Thisawat Kasetsinsombat</b> Plan and Policy Analyst, Practitioner Level, Bureau of Foreign Agricultural Affairs Office of The Permanent Secretary for Ministry of Agriculture and Cooperatives, Ministry of Agriculture and Cooperation +669 2205 0571 thitsawat@moacbofaa.com
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## APPENDIX A

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#### LIST OF THAI DELEGATES

10.		Name: Designation: Department: Contact no. : E-mail:	<b>Ms. Chitchaya Tissaro</b> Foreign Relations Officer, Practitioner Level Bureau of Project Management Royal Irrigation Department +668 1969 1872 chitchaya.tis@gmail.com
11.		Name: Designation: Department: Contact no. : E-mail:	<b>Ms. Chalobon Nuntitrakarn</b> Foreign Relations Officer, Practitioner Level Bureau of Project Management Royal Irrigation Department +668 4405 0555 Chalobon.rid@gmail.com
12.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Jakrawat Ananchotwong</b> Foreign Relations Officer, Practitioner Level Bureau of Project Management Royal Irrigation Department +669 4424 3364 jakrawat2526@gmail.com
13.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Kanis Mahittimahawong</b> Foreign Relations Officer, Practitioner Level Bureau of Project Management Royal Irrigation Department +668 9992 2673 kanism@rid.go.th

## APPENDIX A

### THE 39<sup>TH</sup> MEETING OF THAILAND - MALAYSIA JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

#### LIST OF MALAYSIA DELEGATES

1.		Name: Designation: Department: Contact no. : E-mail:	<b>Dato' Ir. Sabri bin Abdul Mulok</b> Deputy Director General (Business Sector) Department of Irrigation and Drainage +603 2616 1503 irsabri@water.gov.my
2.		Name: Designation: Department: Contact no. : E-mail:	<b>Ir. Mohd. Sha'ri bin Mohammed</b> Deputy Director (Development), Coastal Zone Management Department of Irrigation and Drainage +601 9945 4689 mohdshari@water.gov.my
3.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Epyzul Akmal bin Mohd Shahali</b> Senior Engineer, Coastal Zone Management Department of Irrigation and Drainage +601 2255 0318 epyzul@water.gov.my
4.		Name: Designation: Department: Contact no. : E-mail:	<b>Ms. Roshana Alma Binti Mohd Ali</b> Under Secretary, Water Resources, Drainage And Hydrology Division Ministry of Natural Resources, Environment and Climate Change +601 2614 0784 alma@nrecc.gov.my
5.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Mohd. Faizal bin Jalil</b> Assistant Secretary, Water Resources, Drainage And Hydrology Division Ministry of Natural Resources, Environment and Climate Change +601 2953 3957 faizaljalil@nrecc.gov.my



## APPENDIX A

### THE 39<sup>TH</sup> MEETING OF THAILAND - MALAYSIA JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT


#### LIST OF MALAYSIA DELEGATES

6.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Mohamed Rashafizzuddin bin Che Rosdi</b> Assistant Director of Survey, Department of Survey and Mapping Malaysia Ministry of Natural Resources, Environment and Climate Change +601 7975 6950 rashafizzuddin@jupem.gov.my
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8.		Name: Designation: Department: Contact no. : E-mail:	<b>Ms. Norizan binti Che Meh</b> Head of Unit (Environment, Space, Civil Aviation and Private International Law) Attorney General's Chamber Malaysia +603 8872 2061 norizan.chemeh@agc.gov.my
9.		Name: Designation: Department: Contact no. : E-mail:	<b>Ms. Shanur Farrahin Binti Shapri</b> Federal Counsel, Environment, Space, Civil Aviation and Private International Law Unit Attorney General's Chamber Malaysia +603 8872 2229 shanur.farrahin@agc.gov.my
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## APPENDIX A

### THE 39<sup>TH</sup> MEETING OF THAILAND - MALAYSIA JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

#### LIST OF MALAYSIA DELEGATES

11.		Name: Designation: Department: Contact no. : E-mail:	<b>Mr. Muhammad Khairil Izwan Bin Md Resadi</b> Assistant Director, Department of Irrigation and Drainage Kelantan State +60 9741 9755 khairilizwan@water.gov.my
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## **APPENDIX B**

### **THE 39TH MEETING OF THAILAND - MALAYSIA JOINT TECHNICAL WORKING GROUP (JTWG) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT**

#### **AGENDA**

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##### **Agenda 1: Opening Session**

##### **Agenda 2: Adoption of the Agenda**

##### **Agenda 3: Matters for Information**

- 3.1 Report of Monitoring and Evaluation of Golok River Mouth**
- 3.2 Maintenance Dredging of Golok River Mouth**
- 3.3 Mutual Calibration of Rating Curve at Cableway Station**
- 3.4 Real Time Monitoring System and Joint Website for Golok River Basin**
- 3.5 Flood Problem in Golok River Basin**
- 3.6 Integrated River Basin Management (IRBM) Plan for Golok River**

##### **Agenda 4: Matters for Consideration**

- 4.1 Rehabilitation and Protection Works at Golok River Mouth**
- 4.2 Protection Work at Transit Point B**

##### **Agenda 5: Other Matters**

- 5.1 Date and venue for next JTWG meeting**
- 5.2 Date and venue for next JSC meeting**

##### **Agenda 6: Matters To Be Referred To JSC**

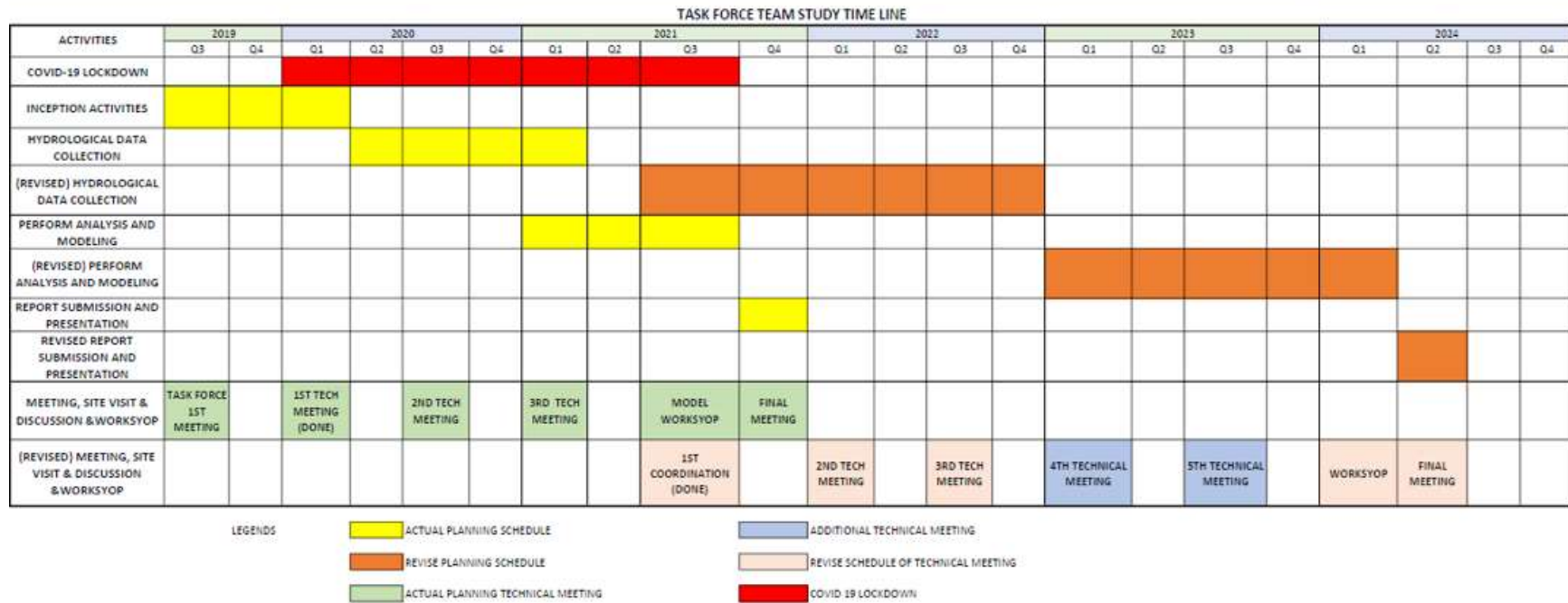
##### **Agenda 7: Adoption Of Minutes Of Meeting**

##### **Agenda 8: Closing Session**

## APPENDIX C

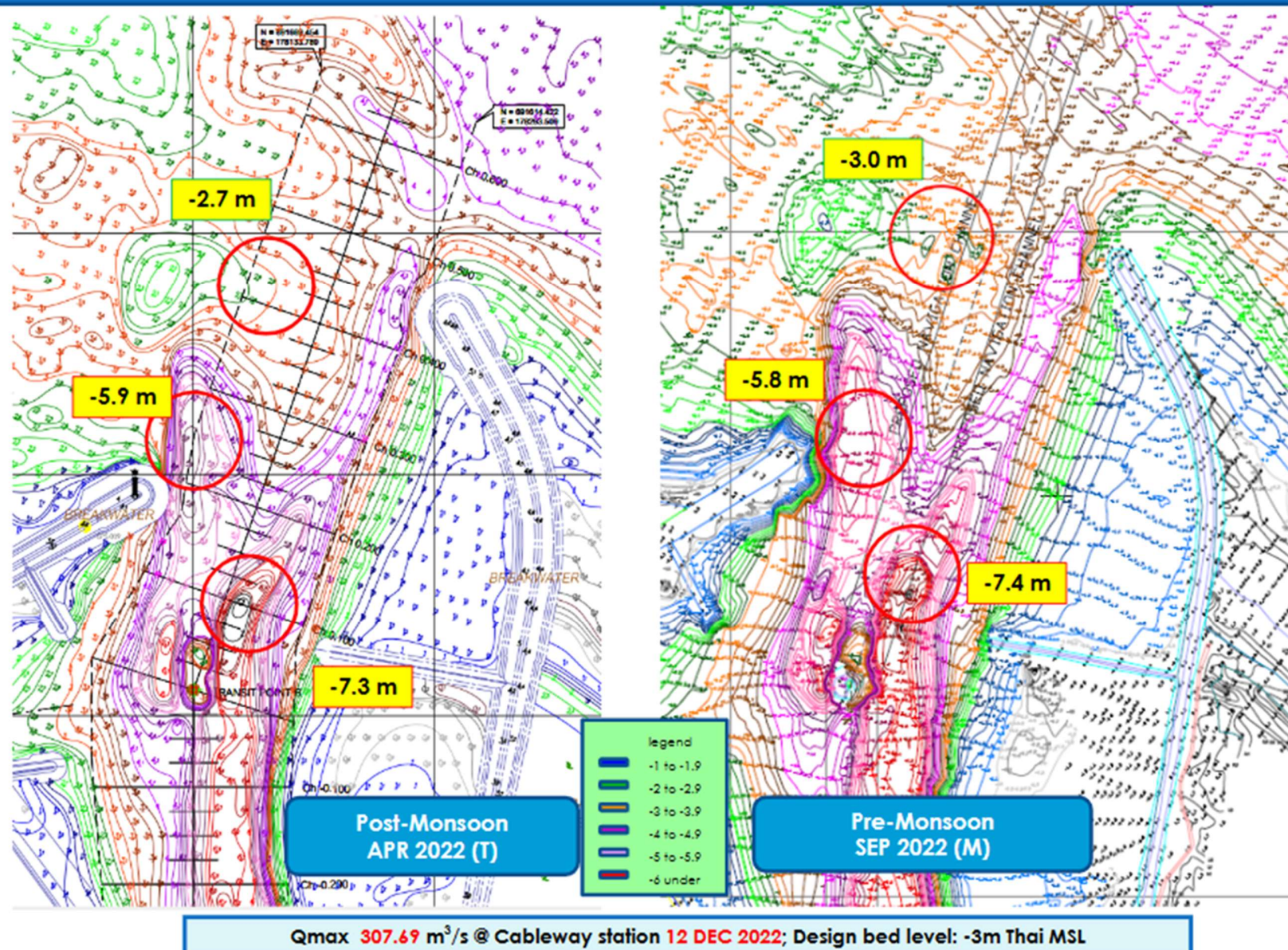
Task Force Team			
THAILAND TEAM		MALAYSIA TEAM	
	<b>Acting Lt. Tanasakda Tuptone</b> Director, Hydrology Irrigation Center (Southern Region), Royal Irrigation Department		<b>Ir. Yuhaslin bin Yusof</b> Acting Deputy Director Water Resources Management and Hydrology Division, Department of Irrigation and Drainage Malaysia
	<b>Mr. Chinnawat Prommanop</b> Director, Golok River Basin Operation and Maintenance Project Regional Irrigation Office 17		<b>Mr. Zaidi bin Deraman</b> Engineer Department of Irrigation and Drainage Kelantan
	<b>Mr. Soratorn Panluan</b> Survey Engineer Professional Level Survey and Engineering Bureau, Marine Department		<b>Mrs. Kalsom binti Mean</b> Senior Engineer Coastal Zone Management Division, Department of Irrigation and Drainage Malaysia
	<b>Mr. Attapan Diloksopon</b> Civil Engineer, Professional Level Royal Irrigation Department (Secretariat)		<b>Mr. Mohd Eizam bin Yusof</b> Engineer Division of Water Resources Management and Hydrology, Department of Irrigation and Drainage Malaysia (Secretariat)

## Task Force Team Revised Timeline

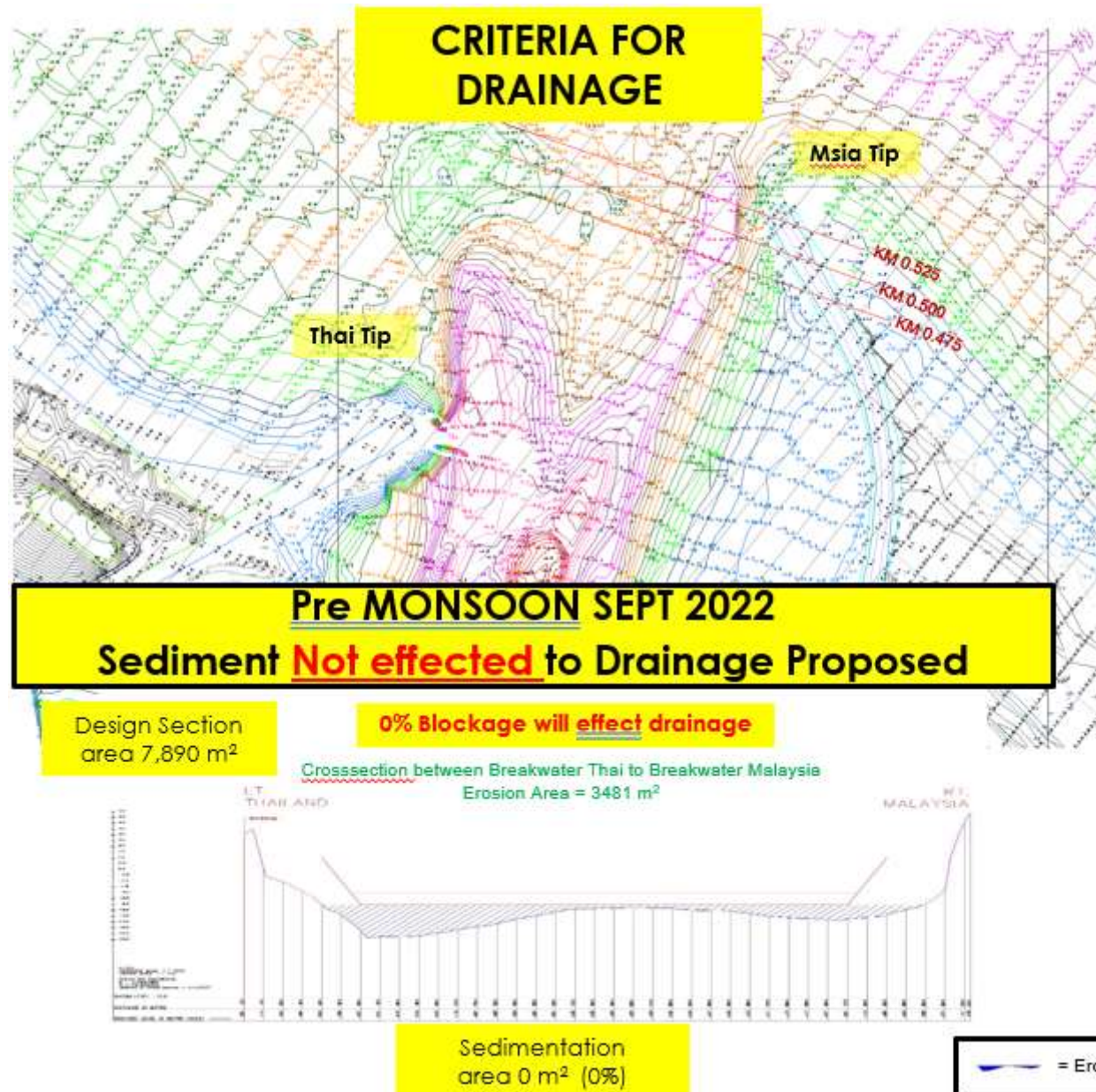




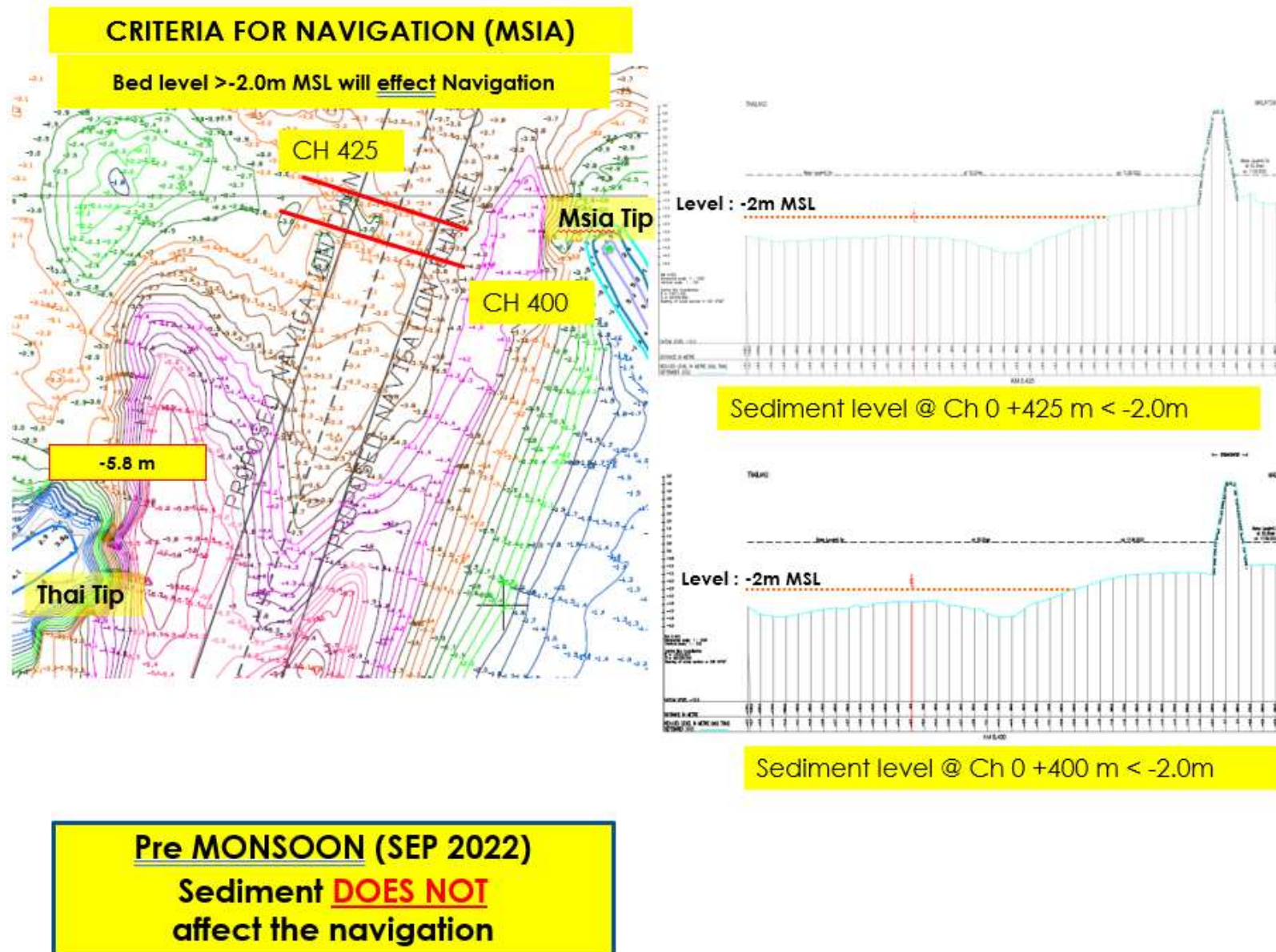
## Monitoring and Evaluation of Golok River Mouth







## APPENDIX G





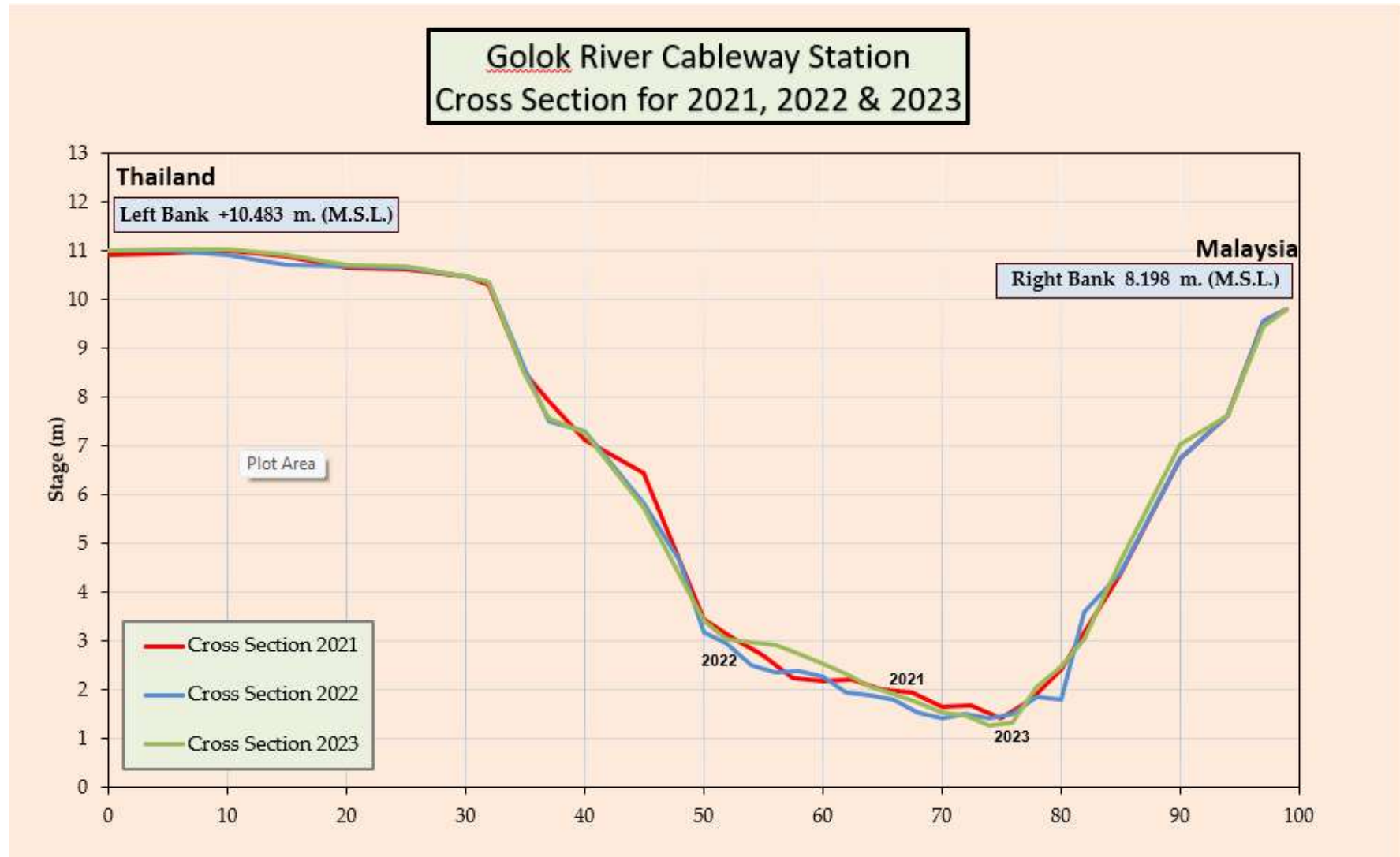
APPENDIX H

**Mutual Gauging Data at Golok River at Rantau Panjang Cableway Station**

Mutual Gauging 2022					
No.	Date	Stage (m)	Discharge (m <sup>3</sup> /s)	Velocity (m/s)	Area, A (m <sup>2</sup> )
1	21 APR 2022	5.310	114.592	0.586	67.143
2	22 MAY 2022	4.570	92.037	0.442	40.636
3	22 JUN 2022	4.750	97.163	0.520	50.483
4	20 JUL 2022	4.480	84.993	0.455	38.624
5	21 JUL 2022	4.200	71.418	0.419	29.903
6	18 AUG 2022	4.430	82.740	0.473	39.139
7	24 AUG 2022	4.200	76.267	0.385	29.415
8	22 SEP 2022	5.550	122.305	0.620	75.814
9	26 OCT 2022	5.280	92.169	0.637	55.514
10	14 NOV 2022	9.200	301.460	0.758	228.426
11	7 DEC 2022	6.410	161.687	0.520	84.011
12	12 DEC 2022	9.240	307.679	0.825	253.999
13	27 DEC 2022	7.240	197.443	0.667	131.731
14	11 JAN 2023	6.600	170.246	0.664	113.012
15	22 FEB 2023	4.620	92.991	0.458	42.602
16	23 MAR 2023	3.650	56.131	0.260	14.557

**Water year (APR2022- MAR2023)**

APPENDIX I

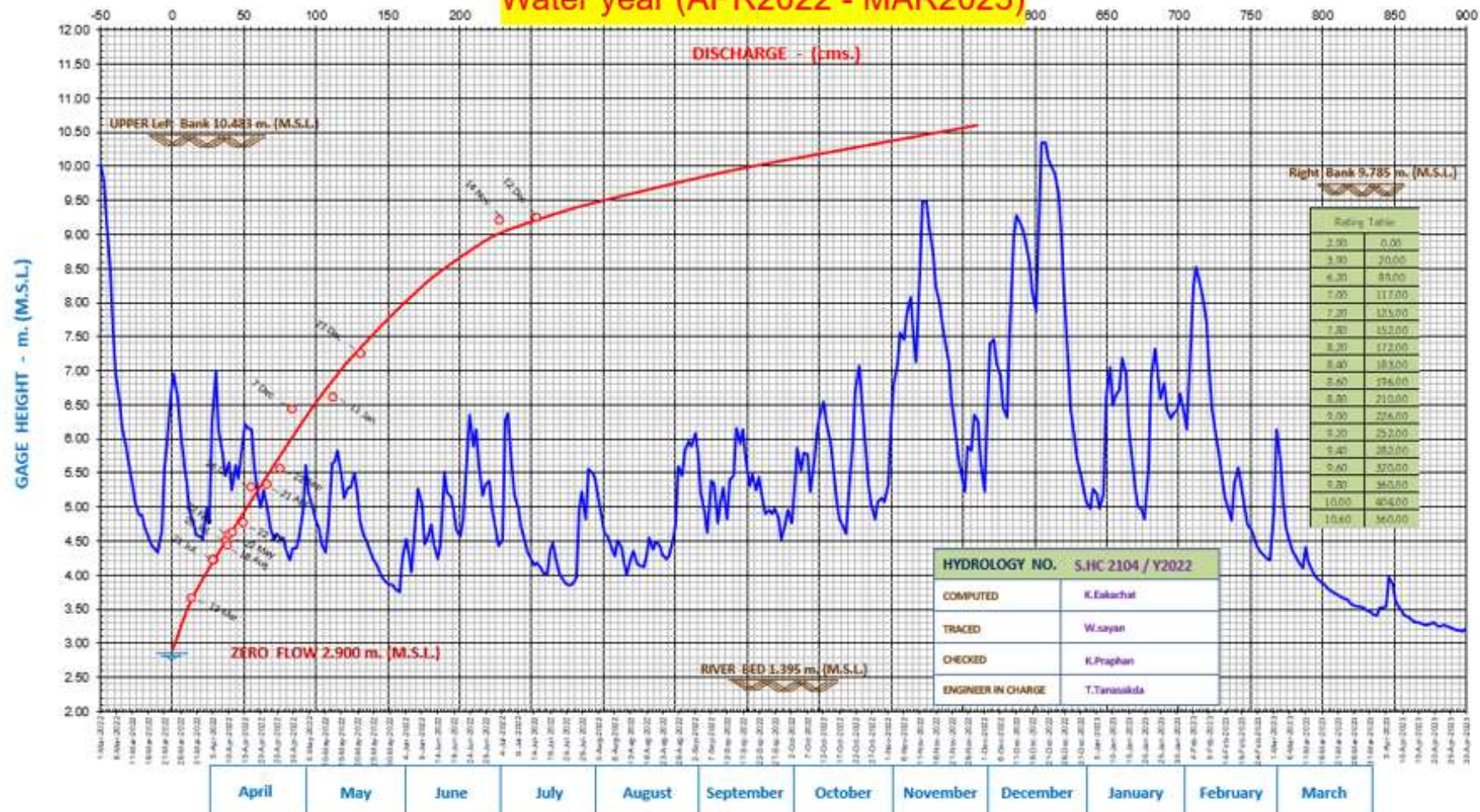


## Rating Curve at Cableway station 2022



DAILY MEAN GAGE HEIGHT AND RATING CURVE WATER YEAR 2022  
STATION X.119A KOLOK RIVER AT LAN TU BRIDGE , SU-NGAI KOLOK , NARATHIWAT

Water year (APR2022 - MAR2023)







APPENDIX L

