



DEPARTMENT OF IRRIGATION
AND DRAINAGE MALAYSIA



Minutes of Meeting

The 35th Meeting of Malaysia - Thailand Joint Evaluation Team on Golok River Mouth Improvement Project

**17 – 18 September 2019
Langkawi, Kedah, Malaysia**

Minutes of Meeting
The 35th Meeting of Malaysia - Thailand Joint Evaluation Team
on The Golok River Mouth Improvement Project
17th – 18th September 2019
Langkawi, Kedah, Malaysia

AGENDA 1: OPENING ADDRESS

Ir. Amiruddin bin Alaldin, the leader of Malaysian delegates, welcomed the Thai delegates to the 35th Meeting of Malaysia - Thailand Joint Evaluation Team (JET) on Golok River Mouth Improvement Project on 17th to 18th September 2019.

Mr. Prinya Kamolsin, the leader of the Thai delegates, expressed his appreciation for the warm welcome and arrangements for the Meeting.

Both sides introduced their delegates and the list of delegates is as shown in **APPENDIX A**.

AGENDA 2: ADOPTION OF AGENDA

The Malaysia team presented the proposed agenda for the Meeting. The Meeting agreed to proceed according to the proposed agenda as shown in **APPENDIX B**.

AGENDA 3: MATTERS FOR CONSIDERATION

3.1 Report on Monitoring and Evaluation of Golok River Mouth

The Malaysian team was carried out the post monsoon survey in June 2019 which the result shows the sea bed level is increased from -3.1m MSL (Post Monsoon in April 2018) to -2.8m MSL. While the sea bed level at the tips of Thai Breakwater and Transit Point B is increased from -5.2m to -4.6m, -7.6m to -6.1m respectively as shown in **APPENDIX C**.

The Malaysian team reviewed the 2019 post-monsoon survey shown that there is some sedimentation has accumulated at the river mouth in channel 0+350 to 0+400.

Referring to JSC 16th meeting, both sides agreed that JET to form a task force team. The members from both sides for the task force team as follows:

MALAYSIAN task force

1. Deputy Director, Division of Water Resources Management and Hydrology, Department of Irrigation and Drainage
2. Deputy Director, Department of Irrigation and Drainage Kelantan, Department of Irrigation and Drainage
3. Engineer, Division of Coastal Zone Management, Department of Irrigation and Drainage
4. Engineer, Division of Water Resources Management and Hydrology, Department of Irrigation and Drainage (Secretariat)

THAI task force

1. Director, Hydrology Irrigation Center (Southern Region), Royal Irrigation Department
2. Survey Engineer, Survey and Mapping Division, Marine Department
3. Senior Irrigation Engineer, Golok River Basin Operation and Maintenance Project, Regional Irrigation Office 17, Royal Irrigation Department
4. Civil Engineer, Professional Level, Bureau of Project Management, Royal Irrigation Department (Secretariat)

The first meeting has been done on 16th Sept 2019, the meeting proposed the objective, scope of study and activities to carry out by the task force to the 35th JET meeting for consideration.

Objective of The Task Force Team

- a. To study the existing hydrological station network in Golok River Catchment. If necessary, the task force team will decide on new telemetry station location and parameter.
- b. To determine the suitable measuring instrument for river discharge and other related hydrological parameters if necessary.
- c. To apply the existing hydrological and hydrodynamic models if available from previous study to determine discharge at the river mouth or to develop simple hydrological and hydraulic model if the existing model is unavailable.
- d. The Meeting agreed the proposal by the task force team and will report to JTWG meeting.

The minutes of the first task force meeting as shown in **APPENDIX D**

3.2 Maintenance Dredging of Golok River Mouth

As agreed in the JET 25, JTWG 32 and JSC 14, the maintenance dredging is required based on the following criteria:

- i. When the cross section area of the river mouth between Thailand and Malaysia breakwater tip is blocked up to 30% (for drainage purpose); or
- ii. When the bed level of the river mouth is at -2.0 m MSL or shallower (for navigation purpose);

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

The Malaysian team reviewed the 2019 post-monsoon survey that no need for the maintenance dredging of Golok River Mouth at the time being. The cross section as shown in **APPENDIX E**

3.3 Protection Work of Transit Point B

The Meeting acknowledged the Agenda 3.1 of the JSC 16th Meeting took note that:

- i. Based on the presentation of the detailed design, the Malaysian side observed that the proposed protection works involve new specifications and components which need to be further deliberated since it is not in line with the provisions in the 1997 Agreement. Hence, Malaysia proposed that a new agreement to be drafted and negotiated between both sides; and
- ii. The Thai side confirmed that the 1997 Agreement includes the proposed protection works which is stated as protection works to transit point B under ANNEX 1 Paragraph 3.0 (b) of the 1997 Agreement.

The JSC meeting on April 2019 agreed that the JET meeting to discuss the matter.

The Malaysian team proposes to classify the works to be done as an upgrading of the existing facility of Transit Point B. This matter will be discussed further with the Malaysian legal adviser, and will be reported in the next JTWG meeting.

3.4 Rehabilitation and Protection Works at Golok River Mouth

The Thai team informed that the EIA approval in progress and expected to be obtained in the middle of year 2020.

The Thai team presented the revised implementation schedule as shown in **APPENDIX F**.

The Malaysian team informed that the detailed design of additional dyke was completed in October 2018, the EIA approval obtained in March 2019 and the budget has been approved by government. As hydraulically necessary both constructions should be started at the same time, therefore the construction of the Malaysian dyke will commence once the Thai side is ready.

3.5 Mutual Calibration of Rating Curve at Cableway Station

The Malaysian team informed that eleven (11) mutual gauging have been done from January until August 2019, the Maximum Discharge is recorded 118.54 cumecs on January 2019 as shown in **APPENDIX G**.

Both teams presented the 2018 rating curve, the Malaysian team developed the rating curve by using two (2) years mutual gauging data (2017 and 2018). And the Thai team developed the rating curve using one (1) year gauging data (2018). The rating curve was similar. Due to flood mitigation purpose, the meeting agreed to adopt Malaysian rating curve which the value is slightly higher. The Rating Curve as shown in **APPENDIX H**.

The meeting agreed for the next mutual rating curve, both sides should use one (1) engineering cross section and one (1) year mutual gauging data for one (1) rating curve. Any deviation from this agreed method shall be discussed and approved by committee.

3.6 Real Time Monitoring System and Joint Website for Golok River Basin

The meeting acknowledged the fifteen (15) telemetry hydrological data that has been shared on the Golok Joint Website (<http://h2o.water.gov.my>)

The Thai team proposed for the Malaysian team to share hydrological data from the station located at the lower part of the Golok River Basin. Both teams will consider from time to time to share more data.

AGENDA 4: OTHER MATTERS

4.1 Integrated River Basin Management (IRBM) Plan for Golok River

The Malaysian side reported that: -

- (a) Malaysia has prepared a draft of Memorandum of Understanding (“MoU”) between the Government of Malaysia and the Government of the Kingdom of Thailand in the field of Integrated River Basin Management between two countries;
- (b) Government of Malaysia has forwarded the draft MoU at the 16th Joint Steering Committee Meeting, Malaysia – Thailand on the Golok River Basin in April 2019.
- (c) The JSC meeting acknowledged that the draft MoU has been received by the Thai team.
- (d) The Thai team informed that the draft MoU has been given to Ministry of Agriculture and Cooperatives (MOAC) and been forwarded to National Water Resources Office (ONWR) for further action.
- (e) Contact person on the Malaysian team regarding the draft MoU as follows;
 - i. Mr. Md. Khairi bin Selamat , email: mdkhairi@water.gov.my
 - ii. Mr. Mohamad Radzi Bin Abdul Talib , email: radzi@water.gov.my
 - iii. Mr. Ahmad Shahrir Bin Md. Naziri , email: a_shahrir@water.gov.my
 - iv. Mr. Azril Fitri bin Zaabah , email: azrilfitri@water.gov.my

4.2 Date and venue for next JET meeting

The meeting proposed the date and venue for the next JET meeting is as follows:

Date: February 2020
Venue: Chiang Mai, Thailand.

AGENDA 5: MATTERS TO BE REFERRED TO THE JTWG

Matters for information

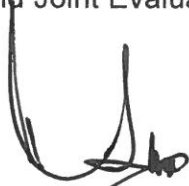
1. Report of Monitoring and Evaluation of Golok River Mouth
2. Maintenance Dredging of Golok River Mouth
3. Rehabilitation and Protection Works at Golok River Mouth
4. Mutual Calibration of Rating Curve at Cableway Station
5. Real Time Monitoring System and the Joint Websites for Golok River Basin

Matters for Consideration

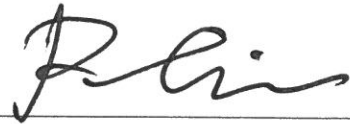
1. Protection Work at Transit Point B
2. Integrated River Basin Management (IRBM) Plan for Golok River

AGENDA 6: ADOPTION OF MINUTES OF THE MEETING

The Meeting agreed to adopt the minutes of meeting of the 35th Meeting of Malaysia - Thailand Joint Evaluation Team on the Golok River Mouth Improvement Project.



(Ir. Amiruddin bin Aladdin)
Co-Chairman
Joint Evaluation Team, Malaysia





(Mr. Prinya Kamolsin)
Co-Chairman
Joint Evaluation Team, Thailand


APPENDIX A


THE 35th MEETING OF MALAYSIA - THAILAND JOINT EVALUATION TEAM (JET) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

LIST OF MALAYSIA DELEGATES

- | | | | |
|----|---|---|---|
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| 4. |  | Name
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APPENDIX A


THE 35th MEETING OF MALAYSIA - THAILAND JOINT EVALUATION TEAM (JET) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT

LIST OF THAI DELEGATES

- | | | | |
|----|---|---|--|
| 1. |  | Name
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APPENDIX B

THE 35th MEETING OF MALAYSIA - THAILAND JOINT EVALUATION TEAM (JET) ON THE GOLOK RIVER MOUTH IMPROVEMENT PROJECT PROPOSED AGENDA

AGENDA 1: OPENING SESSION

AGENDA 2: ADOPTION OF AGENDA

AGENDA 3: MATTERS FOR CONSIDERATION

- 3.1 Monitoring and Evaluation of Golok River Mouth
- 3.2 Maintenance Dredging of Golok River Mouth
- 3.3 Protection Work at Transit Point B
- 3.4 Rehabilitation and Protection Works at Golok River Mouth
- 3.5 Mutual Calibration of Rating Curve at Cableway Station
- 3.6 Real Time Monitoring System and The Joint Website for Golok River Basin

AGENDA 4: OTHER MATTERS

- 4.1 Integrated River Basin Management (IRBM) Plan for Golok River Basin
- 4.2 Date and Venue for Next Meeting

AGENDA 5: MATTERS TO BE REFERRED TO JTWG

AGENDA 6: ADOPTION OF MINUTES OF MEETING

APPENDIX D

THE MINUTES OF THE FIRST TASK FORCE MEETING



**DEPARTMENT OF IRRIGATION
AND DRAINAGE MALAYSIA**



Minutes of Meeting

The 1st Meeting of Malaysia – Thailand Task Force Team on the Golok River Mouth Improvement Project

**16 September 2019
Langkawi, Kedah**

Minutes of Meeting
The 1st Meeting of Malaysia – Thailand
Task Force Team on the Golok River Mouth Improvement Project

AGENDA 1: OPENING SESSION

Ir. Roslina binti Yusop, the leader of the Malaysian delegates, welcomed the Thai delegates to The 1st Meeting of Malaysia – Thailand Task Force Team on the Golok River Mouth Improvement Project.

Miss Kanokporn Boochabun, the leader of the Thai delegates expressed her appreciation for the warm welcome and arrangements for the Meeting.

Both sides introduced their delegates and the list of delegates is as shown in **APPENDIX A**.

The Malaysian team presented the proposed agenda for the Meeting. The Meeting agreed to proceed according to the proposed agenda as shown in **APPENDIX B**.

AGENDA 2: MATTERS FOR DISCUSSION

2.1 OBJECTIVE OF THE TASK FORCE

Report by Task Force Team

The Objective of the Task Force

1. To study the existing hydrological station network in Golok River Catchment. If necessary, the task force team will decide on new telemetry station location and parameter.
2. To determine the suitable measuring instrument for river discharge and other related hydrological parameters, if necessary.
3. To apply the existing hydrological and hydrodynamic models if available from the previous study to determine discharge at the river mouth or to develop simple hydrological and hydraulic model if the existing model is unavailable.

2.2 SCOPE OF STUDY

Report by Task Force Team

The scope of this study includes:

1. Review of available studies and report related to Golok River Catchment.
2. Collect and collate available data information related to Golok River Catchment.
3. Decide on suitable measuring instrument for river discharge/tide level near river mouth if necessary.
4. Perform analysis and/or modelling for accurate discharge estimation at river mouth.
5. Preparation of Task Force Team Report

2.3 PROPOSE TIMELINE-GANTT CHART

Report by Task Force Team

ACTIVITIES	2019				2020				2021			
	Q3	Q4			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
	SEP	OCT	NOV	DEC	J - M	A - J	J - S	O - D	J - M	A - J	J - S	O - D
Inception Activities												
Hydrological Data Collection												
Perform Analysis and Modeling												
Report Submission & Presentation												

Note:

 Task Force Team Progress

The detailed Timeline-Gantt Chart for work program is as per **APPENDIX C**

2.4 VENUE AND FREQUENCY OF MEETING

Report by Task Force Team

No.	Type of Meeting	Date	Venue
1.	1 st Task Force Team	September 2019	Langkawi, Malaysia
2.	Technical Meeting & Discussion No.2	July 2020	Thailand
3.	Technical Meeting & Discussion No.3	February 2021	Malaysia
4.	Workshop for Model Development	July 2021	Malaysia
5.	Final Meeting	December 2021	Thailand



AGENDA 3: ADOPTION OF MINUTES OF MEETING

The Task Force Team agreed to adopt the minutes of the 1st Meeting of Malaysia – Thailand Task Force Team on the Golok River Mouth Improvement Project

APPENDIX A

THE 1ST MEETING OF MALAYSIA – THAILAND TASK FORCE TEAM ON THE GOLOK RIVERMOUTH IMPROVEMENT PROJECT

LIST OF MALAYSIA DELEGATES

1.		Name Designation Department Contact No. Email	Ir. Roslina binti Yusop Senior Engineer Division of Water Resources Management and Hydrology Department of Irrigation and Drainage +6019-3555149 lina@water.gov.my
2.		Name Designation Department Contact no. Email	Mrs. Kalsom binti Mean Senior Engineer Division of Coastal Zone Management Department of Irrigation and Drainage +6019-3034624 kalsom@water.gov.my
3.		Name Designation Department Contact no. Email	Ir. Shardani bin Salleh Senior Engineer Department of Irrigation and Drainage Kelantan +6019-400 4658 shardani@water.gov.my
4.		Name Designation Department Contact no. Email	Mr. Mohd Eizam bin Yusof Engineer Division of Water Resources Management and Hydrology Department of Irrigation and Drainage +6016 4844359 eizam@water.gov.my

APPENDIX B

THE 1ST MEETING OF MALAYSIA-THAILAND TASK FORCE TEAM ON THE GOLOK RIVERMOUTH IMPROVEMENT PROJECT

LIST OF THAILAND DELEGATES

1.		Name Designation Department Contact no. Email	Miss Kanokporn Boochabun Director, Hydrology Irrigation Center (Southern Region), Royal Irrigation Department +6681 695 0743 kboochabun@gmail.com
2.		Name Designation Department Contact no. Email	Mr. Abdultoleb Hemhoh Senior Irrigation Engineer Golok River Basin Operation and Maintenance Project Regional Irrigation Office 17 ,Royal Irrigation Department +667 353 8041 dultoleb@gmail.com
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APPENDIX B

THE 1ST MEETING OF MALAYSIA-THAILAND TASK FORCE TEAM ON THE GOLOK RIVERMOUTH IMPROVEMENT PROJECT

PROPOSED AGENDA

AGENDA 1: OPENING SESSION

AGENDA 2: MATTERS FOR DISCUSSION

- 2.1 OBJECTIVE OF THE TASK FORCE
- 2.2 SCOPE OF STUDY
- 2.3 PROPOSE TIMELINE-GANTT CHART
- 2.4 VENUE AND FREQUENCY OF MEETING

AGENDA 3: OTHER MATTER

AGENDA 4: MATTERS TO BE REFERRED TO JET

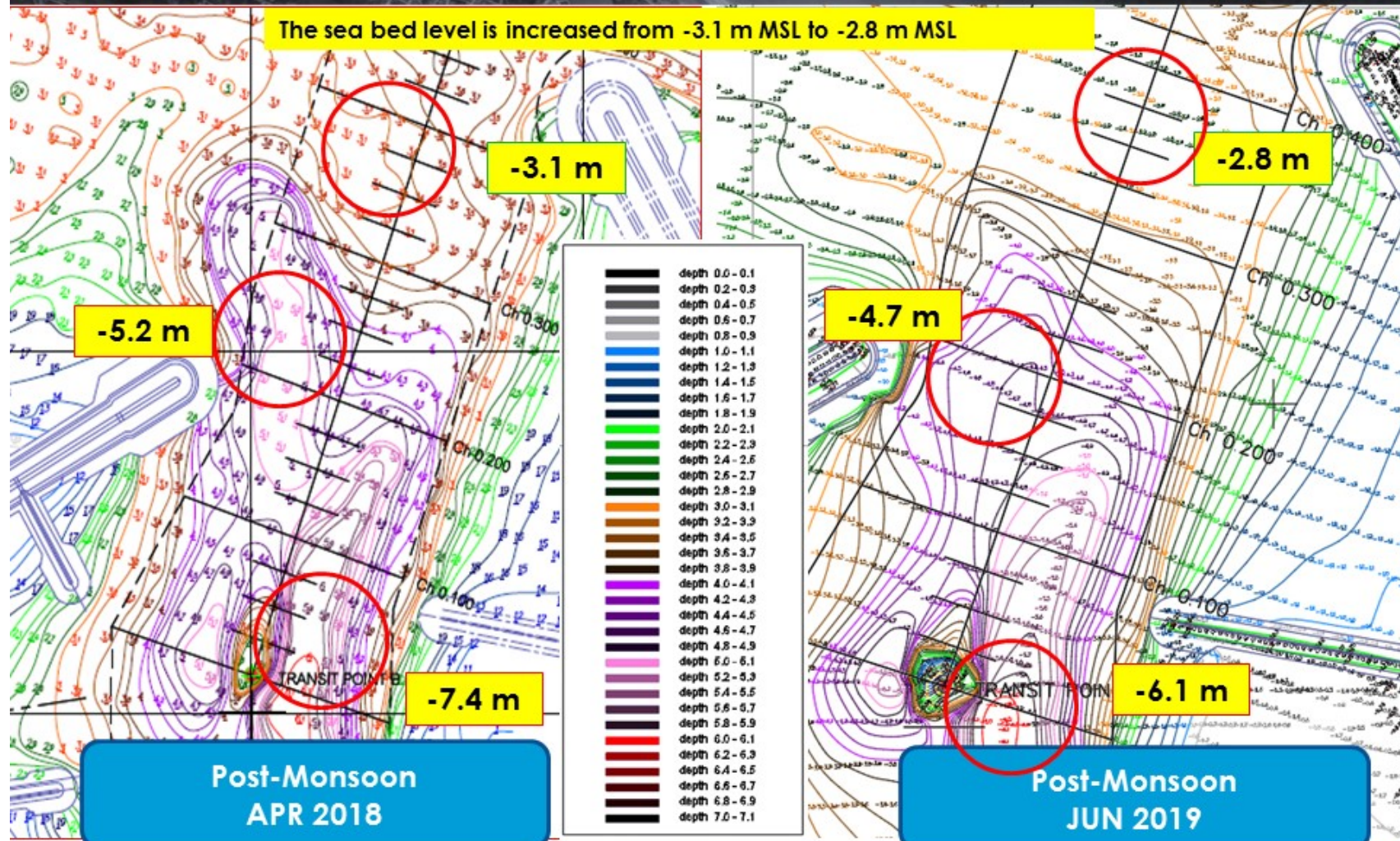
AGENDA 5: ADOPTION OF MINUTES OF MEETING

APPENDIX C

TASK FORCE TEAM TIMELINE – GANTT CHART

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3.1 - Report of Monitoring and Evaluation of Golok River Mouth



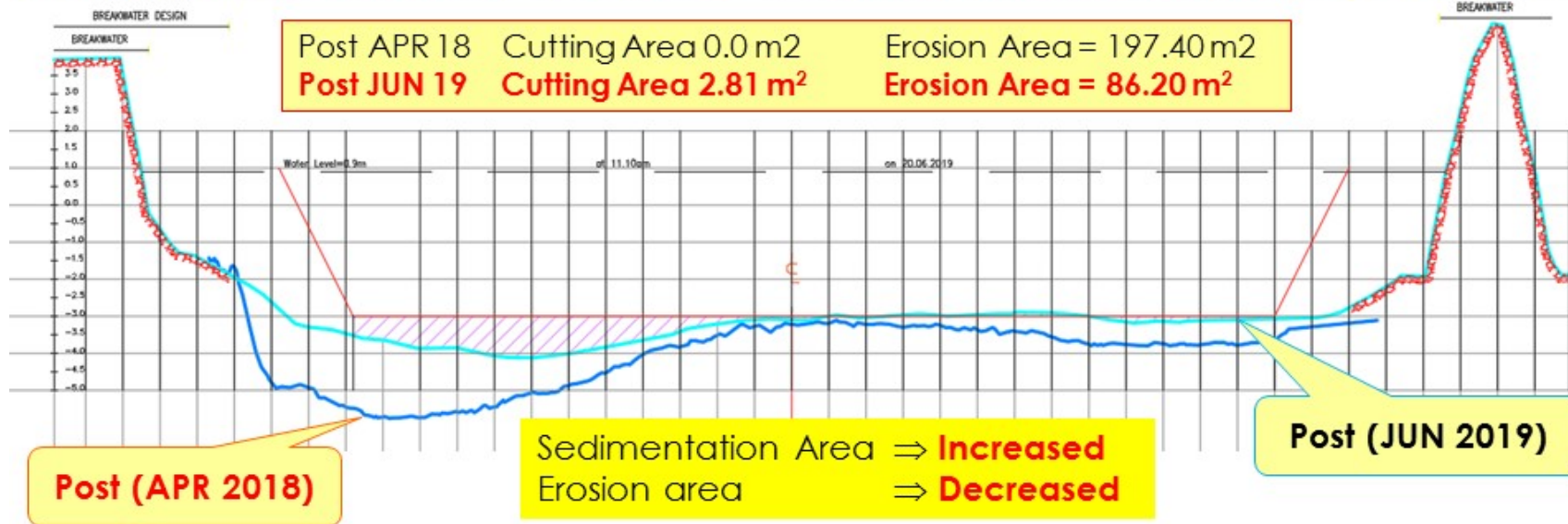
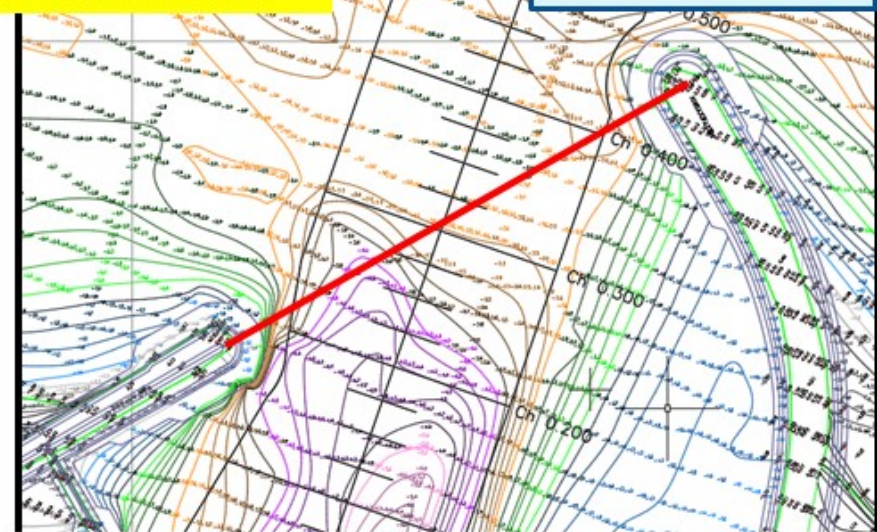
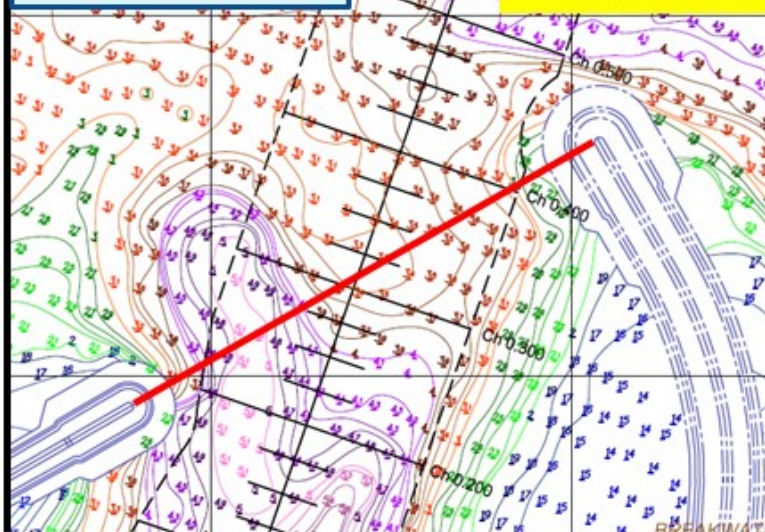
Qmax **397.19** m³/s @ Cableway station 30 NOV 2018; Design bed level: -3m Thai MSL

3.2 - Maintenance Dredging of Golok River Mouth

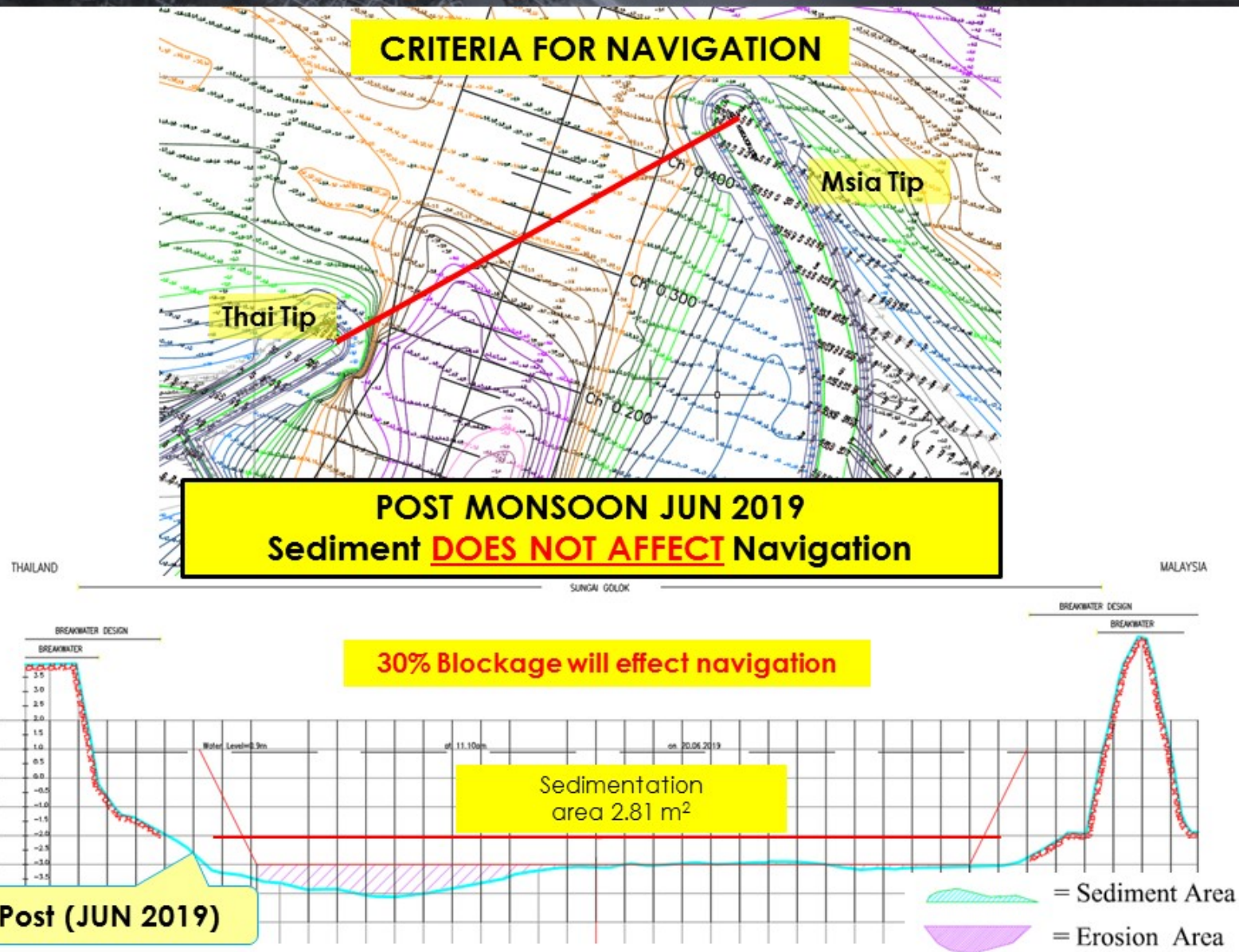
POST APR 2018

CRITERIA FOR DRAINAGE

POST JUN 2019



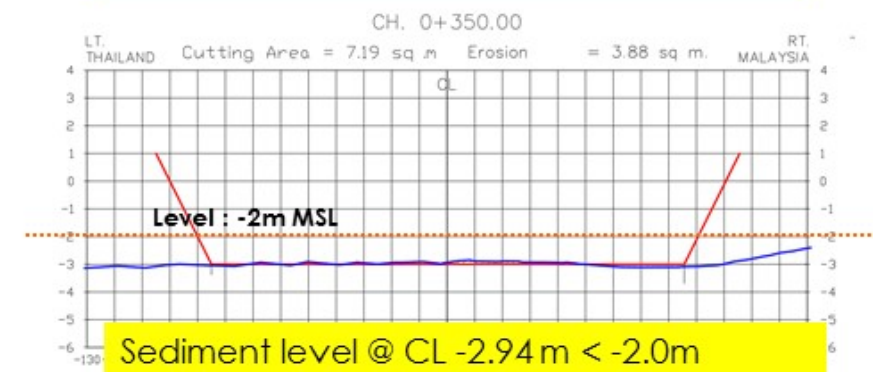
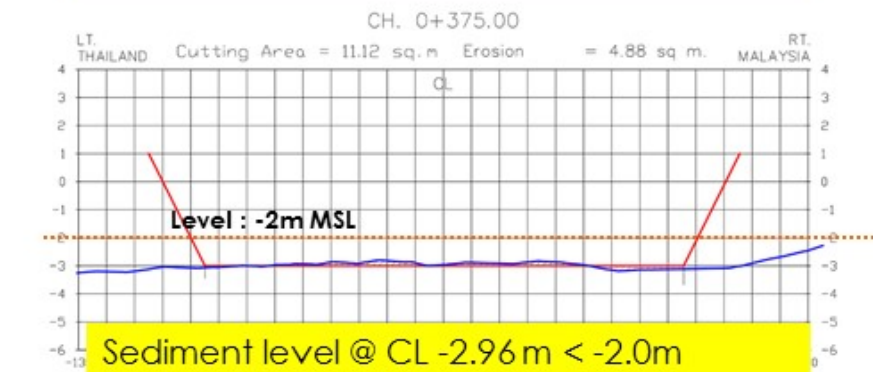
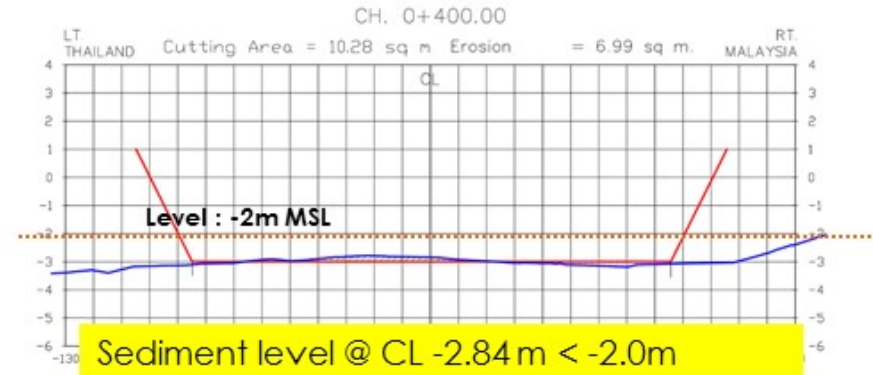
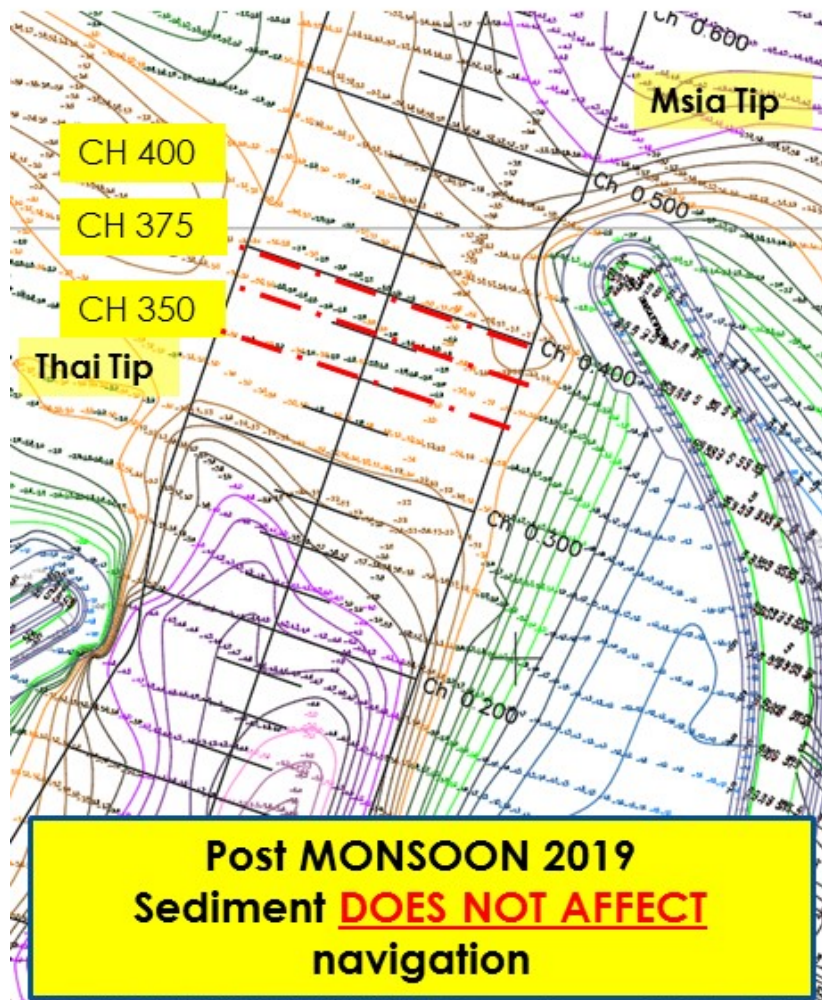
3.2 - Maintenance Dredging of Golok River Mouth



3.2 - Maintenance Dredging of Golok River Mouth

CRITERIA FOR NAVIGATION (MSIA)

Bed level $> -2.0\text{m MSL}$ will effect Navigation



Proposed EIA road map (THAI)

[illegible]

Detailed design & EIA road map (MAS)

DETAILS	2017	2018				2019				2020				2021-2022
	1-12	1-3	4-6	7-9	10-12	1-3	4-6	7-9	10-12	1-3	4-6	7-9	10-12	
Detailed Design		~12 months												
EIA approval			6 months			3 months								
Construction											24 months (2021-2023)			



2019 Mutual Gauging Data

No.	Date	Level (m)	Discharge (CMS.)	Area, A (Sq.m.)	Velocity (m/s)
1.	31 Jan 2019	4.25	31.114	72.163	0.432
2.	31 Jan 2019	4.25	30.850	75.243	0.410
3.	28 Feb 2019	3.46	11.709	47.624	0.246
4.	28 Feb 2019	3.65	7.090	46.674	0.152
5.	14 Mac 2019	3.18	5.717	36.201	0.158
6.	29 May 2019	4.04	26.10	67.230	0.388
7.	26 Jun 2019	4.56	38.784	85.600	0.453
8.	25 July 2019	4.63	48.539	90.351	0.537
9.	25 July 2019	4.56	47.598	87.433	0.544
10.	29 Ogos 2019	4.60	39.195	87.901	0.446
11.	29 Ogos 2019	4.65	40.581	91.100	0.446

Qmax= 118.54 cms, Wlevel=7.13 m (18/01/2019)

2018 Rating Curve (Malaysia)

