

MINISTRY OF WATER, LAND AND NATURAL
RESOURCES
MALAYSIA



MINISTRY OF AGRICULTURE
AND COOPERATIVES
THAILAND

REPORT

THE SIXTEENTH MEETING OF THE MALAYSIA–THAILAND JOINT STEERING COMMITTEE ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN

GENTING HIGHLANDS, MALAYSIA
23 – 24 APRIL 2019

REPORT

THE SIXTEENTH MEETING OF THE MALAYSIA–THAILAND JOINT STEERING COMMITTEE ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN

Genting Highlands, Malaysia

23 – 24 April 2019

INTRODUCTION

The Sixteenth Meeting of the Malaysia–Thailand Joint Steering Committee (JSC) on the Development of the Golok River Basin was held at The Awana Genting Highlands Resorts, Genting Highlands, Malaysia from the 23rd to 24th April 2019.

The Meeting was co-chaired by Mdm. Azizah binti Ariffin, Deputy Secretary General, Ministry of Water, Land and Natural Resources Malaysia and Mr. Anut Visetrojana, Inspector General, Ministry of Agriculture and Cooperatives, Thailand.

AGENDA 1 OPENING REMARKS

- 1.1 Mdm. Azizah binti Ariffin, as the Head of the Malaysian Delegation welcomed both delegates from Malaysia and Thailand to the 16th JSC Meeting. She expressed her honor to be co-chairing this Meeting with Mr. Anut Visetrojana. She hopes that the Meeting would be conducted in the most efficient manner with the support and commitment from both sides.
- 1.2 Mr. Anut Visetrojana the Head of the Thai Delegation expressed sincere thanks and heartfelt appreciation for the warm welcome and kind hospitality accorded to the Thai delegates.
- 1.3 The Opening Address of Mdm. Azizah binti Ariffin and the Opening Remarks of Mr. Anut Visetrojana are as in **Annex A1** and **A2**.
- 1.4 Both side introduced their delegates as shown in **Annex B1** and **B2**

AGENDA 2 ADOPTION OF THE PROPOSED AGENDA

- 2.1 The Meeting agreed to adopt the proposed agenda as in **Annex C**.

AGENDA 3 MATTERS FOR INFORMATION

3.1 Monitoring and Evaluation of Golok River Mouth

The Meeting was informed that:

- a) The pre and post monsoon survey carried out in October 2017 and April 2018 respectively shows that there is no changes to the maximum sea bed level along the navigation channel. The surveys of the seabed level at the river mouth is as shown in **Annex D1**.
- b) The monitoring survey also shows that there is no sedimentation within the navigation channel (> -3.00 MSL).
- c) A task force team have been formed to determine the method of measurement for river discharge and finalised matters of the hydrological station at Golok River and its tributaries. The team is led by a hydrologist from both sides and the team members as shown in **Annex D2**.

Endorsement by JSC

The Meeting agreed to endorse the need to continue the monitoring survey with more detail analysis and the formation of the task force team as recommended by JTWG.

3.2 Maintenance Dredging of Golok River Mouth

The Meeting was informed that the need for maintenance dredging is based on the following criteria from the Joint Hydraulics Studies:

- a) The design cross section of the river mouth between Thai and Malaysian breakwater tips are blocked up to 30% (for upstream flood control);
- b) The bed level at the river mouth is -2m MSL or shallower (for navigation);
- c) The sediment patterns are to be monitored for at least 2 consecutive monsoon seasons in order to identify the need for maintenance dredging.

The Meeting was informed that the results of the post-monsoon survey 2018:

- a) The design cross section area is not blocked as shown in **Annex E1**.
- b) The shallowest sea bed level is at -3.1m MSL as shown in **Annex E2**.
- c) Nett erosion is occurring at the Thai breakwater where the current level is at -5.2m MSL as shown in **Annex E3**.

Based on the above, the Meeting was informed that at present, maintenance dredging is not required at the Golok River Mouth.

Endorsement by JSC

The Meeting acknowledged the results of the post-monsoon survey 2018 and agreed that maintenance dredging is not required at the Golok River Mouth.

3.3 Protection Work at Transit Point B

The Meeting was informed that the Malaysian side has received the report of the design of protection work at Transit Point B from Thai side. The report is currently being reviewed by Malaysian side.

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.

The Thai side has their opinion 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 Thai side proposed that the Supplementary Agreement be prepared in line with Article 9 1997 Agreement.

Endorsement by JSC

The Meeting agreed that JET and JTWG will discuss further on this matters and report in the next JSC.

3.4 Rehabilitation and Protection Works at Golok River Mouth

The Meeting was informed that:

The 2D and 3D physical modeling works have been completed and agreed by both sides; and both sides to proceed with the revised roadmap for implementation of the rehabilitation works.

The revised road map for the joint implementation works is as shown in **ANNEX F**.

Endorsement by JSC

The Meeting acknowledged the new roadmap for construction of the protection works at Golok River Mouth.

3.5 Mutual Calibration of Rating Curve at Cableway Station

Discussion by JTWG

The Meeting acknowledged that:

The need to continue mutual gauging measurements at Golok Cableway Station;

The establishment of mutual rating curve (2017) by JET. The mutual rating curve will be used for any study and improvement works related to the joint program of the Golok River in the future. The rating curve 2017 is shown in **Annex G**

Refer to Minutes of JET 34 (Feb 2019)

In 2018, nine (9) mutual gauging measurements were done monthly except in Jun, July and individual gauging in December. The mutual and individual gauging measurements are as shown in **Annex H**.

The meeting agreed that the mutual gauging shall be scheduled during the last week of every month. If any additional gauging required, then both sides should be informed prior to the event.

The Thai side informed that the cross-section survey will be done on March 2019 and Thai side will send official invitation letter to Malaysian side.

The Meeting agreed to present the 2018 rating curve in the next JET meeting.

Endorsement by JSC

The meeting acknowledged that:

1. The need to continue mutual gauging measurements at Golok Cableway Station;
2. The mutual gauging shall be scheduled during the last week of every month;
3. The cross-section survey will be done on March 2019;
4. The 2018 rating curve will be presented in the next JET meeting.

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

Report by JTWG

The Meeting acknowledged that:

1. The Thai side will setup two (2) small scale telemetry stations which are expected to be completed in October 2018;
2. The Thai side shall report the development progress of the remaining four (4) stations in the next meeting;
3. Both sides agreed to proceed with the revised schedule for new telemetry stations; and
4. Both sides further agreed that data from the telemetry stations will be shared between both sides when the system is ready.

The Meeting informed that three (3) new Malaysia telemetry stations and six (6) new Thai telemetry stations was completed and already been shared on the website. The location of all stations as shown in **Annex I**. Both side hydrological online data are ready for viewing at the joint website.

Endorsement by JSC

The meeting acknowledged that the telemetry stations was completed and already been shared on the website <http://h2o.water.gov.my> (as shown in **Annex J**)

AGENDA 4 MATTERS FOR CONSIDERATION

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

Endorsement by JSC15 (March 2016)

- 1) The meeting in principle agreed that the scope of work of JTWG and JET should be expanded to cover the development of Golok River Basin. The name of JTWG and JET should be changed to conform to the scope of work.
- 2) Both sides agreed to seek approval from respective government in consultation with relevant agencies.
- 3) Both sides agreed that JET can proceed with the discussion on IRBM but the implementation must be conforming to regulation of both countries.

Report by JET

The new Agreement for the IRBM for Golok River is still in progress by the Malaysian working committee. The first draft of the Agreement is still in consultation internally with relevant departments and ministries.

The Meeting agreed that the JTWG to decide whether the IRBM Agenda is to be continued under the Golok River Mouth working Committee.

Discussion by JTWG

The IRBM Agenda to be continued and discussed under the Golok River Mouth working committee; and

The IRBM working committee from both sides will further discuss on the contents of the new IRBM agreement and shall report in the next JSC meeting for consideration.

The Meeting informed that:

The new 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 have been drafted by Malaysia side;

The draft MOU will be submitted to Thai side during the 16th Joint Steering Committee Meeting for review and further action.

Endorsement by JSC

The Meeting acknowledges that the draft MoU has been received by the Thai side for review and further action.

AGENDA 5 OTHER MATTERS

5.1 Date and venue of the next JSC meeting

The Meeting agreed to convene the 17th Meeting of the JSC as follows:

- Host: Thailand
- Proposed Date: 2021 or as and when necessary
- Proposed Venue:

AGENDA 6 ADOPTION OF THE REPORT OF THE MEETING

- 6.1 The Meeting acknowledged and adopted the Report of the 16th Meeting of the JSC on the Development of the Golok River Basin

AGENDA 7 CLOSING SESSION

- 7.1 The Deputy Secretary General, Ministry of Water, Land and Natural Resources Malaysia expressed her appreciation to all delegates for their contributions to successful conducting of the Meeting and wished the Thai delegates a safe journey home.

The Inspector General, Ministry of Agriculture and Cooperatives Thailand expressed his appreciation to the Malaysian delegation and the Secretariat for their valuable cooperation and excellent arrangements for the Meeting.

**OPENING ADDRESS
BY
MDM. AZIZAH BINTI ARIFFIN
DEPUTY SECRETARY GENERAL
MINISTRY OF WATER, LAND AND NATURAL RESOURCES,
MALAYSIA**

**AT 16TH MEETING OF MALAYSIA – THAILAND
JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN
23RD APRIL 2019, GENTING HIGHLANDS, MALAYSIA**

Your Excellency, Mr. Anut Visetrojana
Inspector General,
Ministry of Agriculture and Cooperatives, Thailand

Dato'-Dato', Excellencies, Ladies and Gentleman,

Good Morning, Sawadee Ka and Selamat Pagi,

Today, I'm very glad to be able to Co-Chair this meeting with Mr Anut Visetrojana this morning. I hope it is not too late for me to welcome all delegates, especially to our special guest from Thailand to Genting Highlands, in the state of Pahang Darul Makmur.

First of all, on behalf of the Government of Malaysia, please allow me to extend to all delegates the most cordial and warmest welcome to Genting Highlands, Malaysia. It is indeed a great honor to the Ministry and to Malaysia to host this 16th meeting of Malaysia-Thailand Joint Steering Committee (JSC) on the Development of Golok River Basin this year. Three years ago in March 2016, we met in Bangkok, Thailand for the 15th JSC Meeting. We would like to take this opportunity again to thank you for your warm welcome and great hospitality during our stay there, in Bangkok, Thailand.

Dato'-Dato', Excellencies, Ladies and Gentleman

The joint cooperation meetings between Malaysia and Thailand have gone its long way in fostering understanding, goodwill and cooperation between us. The meetings provide us with a forum to share and exchange our experiences and expertise through joint cooperation programs.

In this Biennial JSC meeting, the agreed matters discussed in the recent 36th Joint Technical Working Group (JTWG) meeting held in Penang Island, Malaysia in July

this year will be referred to this meeting for information and consideration. I am confident that this meeting will be conducted in the most efficient manner with the support and commitment from both sides of delegations.

The matters for information are:

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

For the matters for consideration are;

1. Integrated River Basin Management (IRBM) Plan for Golok River

Your Excellency, Ladies and Gentleman,

I am sure and confident that this spirit of cooperation through friendly and fruitful meetings will enhance our deepest relationship that exists between two countries, which eventually provide mutual benefits for both sides and hopefully leads to more joint projects in the future. We hope that this meeting will be conducted in the most efficient manner with the support and commitment from both sides of the delegations.

Last but not least, I would like to wish a pleasant and memorable stay in Genting Highlands. We have arranged a series of programmes such as a site visit to Water intake and Pump Station JBA and Genting Cable Car.

May our efforts be blessed and may this session be a productive one. With that note, I end my opening remarks.

Thank you.

**OPENING ADDRESS
BY
MR. ANUT VISETROJANA
INSPECTOR GENERAL
MINISTRY OF AGRICULTURE AND COOPERATIVES, THAILAND**

**AT 16TH MEETING OF MALAYSIA – THAILAND
JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN
23RD APRIL 2019, GENTING HIGHLANDS, MALAYSIA**

Selamat Pagi

Mdm. Azizah binti Ariffin
Deputy Secretary General, Ministry of Water, Land and Natural Resources Malaysia

Distinguished Delegates,

Ladies and Gentlemen,

On behalf of The Ministry of AG and Coop of the Kingdom of Thailand, it is indeed a great pleasure of my delegation to be here in Genting Highlands attending this sixteenth meeting of Malaysia – Thailand Joint Steering Committee on the Golok River Basin Development today. Your warm welcome and hospitality extended to all of us is highly appreciated.

The long lasting friendship between our two close countries have been witnessed through cooperation over the Golok River Basin Development. In particular, the progress and success of Golok River Mouth Improvement Project so far has been fostering understanding, goodwill and spirit of cooperation in the development and management of transboundary river for mutual benefits as well as happiness and well-being of our people.

I do hope that we will be continuing our best efforts for the very active implementation of the mentioned project in order to reflect this remarkable join cooperation between our two countries.

I look forward to the fruitful outcome of this very important meeting over these two days.





Wishing you all the best and success.







Thank you







Terima kasih banyak

**16TH MEETING OF MALAYSIA – THAILAND
JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN**

LIST OF MALAYSIA DELEGATES






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**16TH MEETING OF MALAYSIA – THAILAND
JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN**

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**AGENDA
FOR
THE FORTEEN MEETING OF THE
MALAYSIA–THAILAND JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN**

22 – 24 April 2019

Genting Highland, Malaysia

Agenda 1: Opening Session

Agenda 2: Adoption of 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 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 Joint Website for Golok River Basin

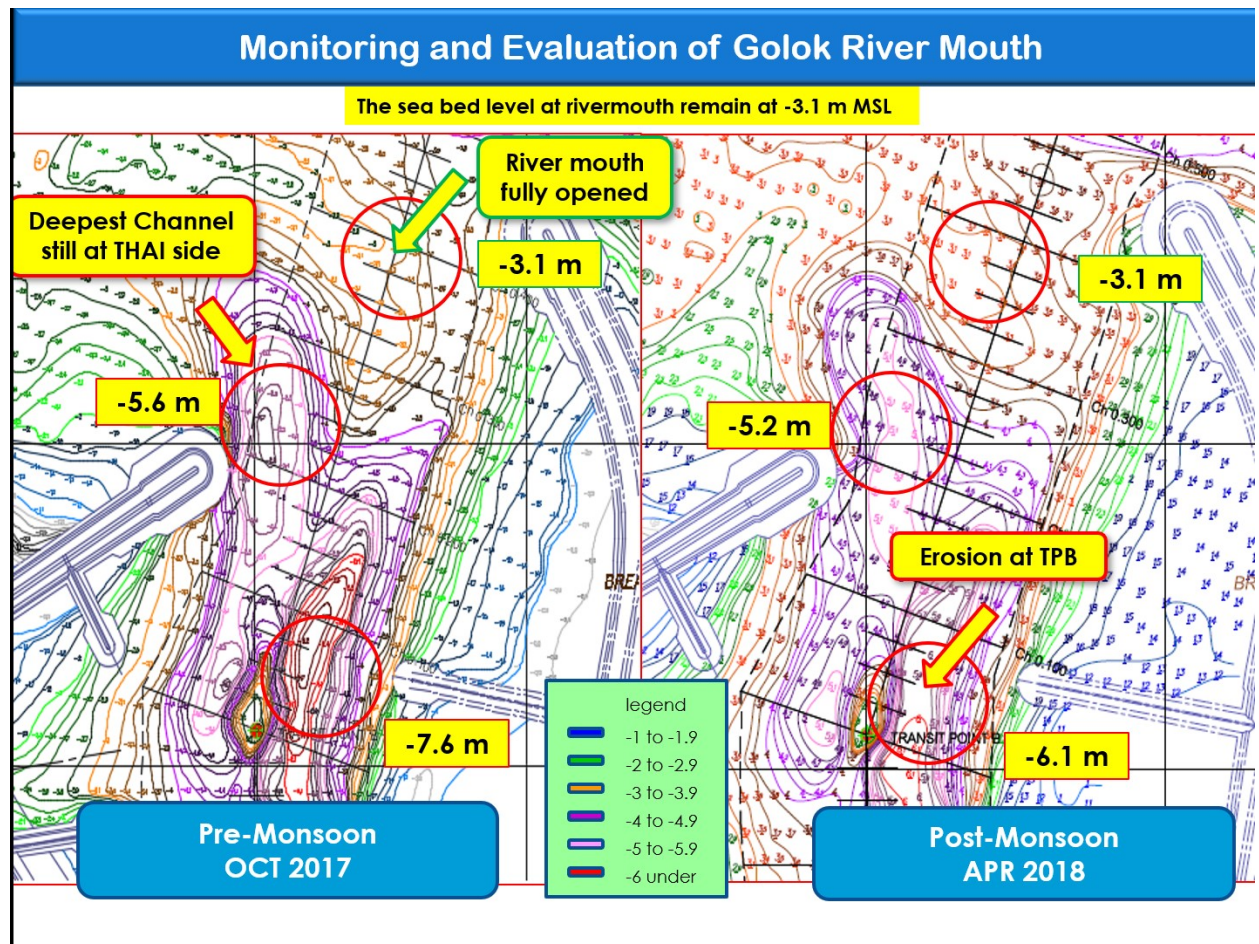
Agenda 4: Matters for Consideration

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




Agenda 5: Date and venue for next Meeting

Agenda 6: Adoption of the report of the Meeting

Agenda 7: Closing Session

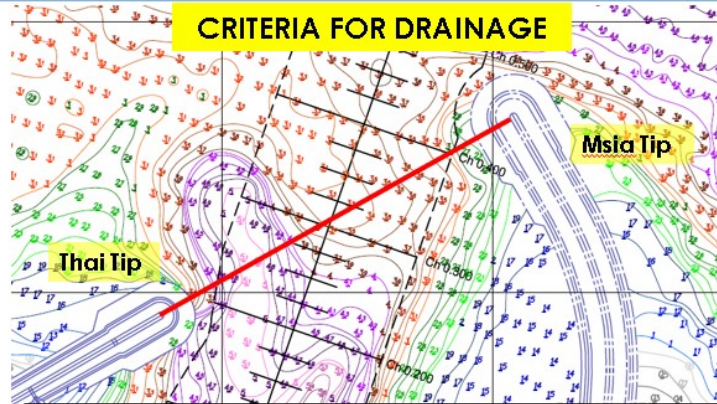


Task force team to determine the method of measurement for river discharge and finalised matters of the hydrological station at Golok River and its tributaries

THAILAND TEAM		MALAYSIA TEAM	
	Miss Kanokporn Boochabun Director, Hydrology Irrigation Center (Southern Region), Royal Irrigation Department		Deputy Director Water Resources Management and Hydrology Division, Department of Irrigation and Drainage Malaysia
	Mr. Abdultoleb Hemhoh Senior Irrigation Engineer, Golok River Basin Operation and Maintenance Project Regional Irrigation Office 17, Royal Irrigation Department		Deputy Director Department of Irrigation and Drainage Kelantan
	Mr. Tawat Seenuel Civil Engineer Survey and Engineering Bureau, Marine Department		Engineer Coastal Zone Management Division, Department of Irrigation and Drainage Malaysia
	Mr. Attapan Diloksopon Civil Engineer, Professional Level Bureau of Project Management, Royal Irrigation Department		Engineer Division of Water Resources Management and Hydrology, Department of Irrigation and Drainage Malaysia (Secretariat)

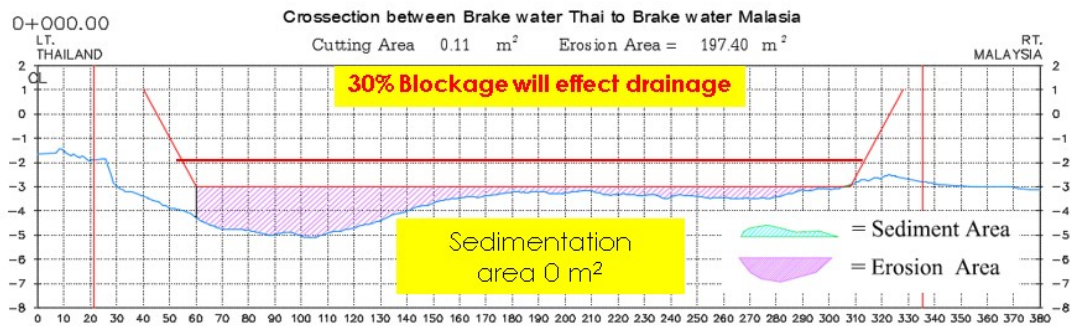
Maintenance Dredging of Golok River Mouth

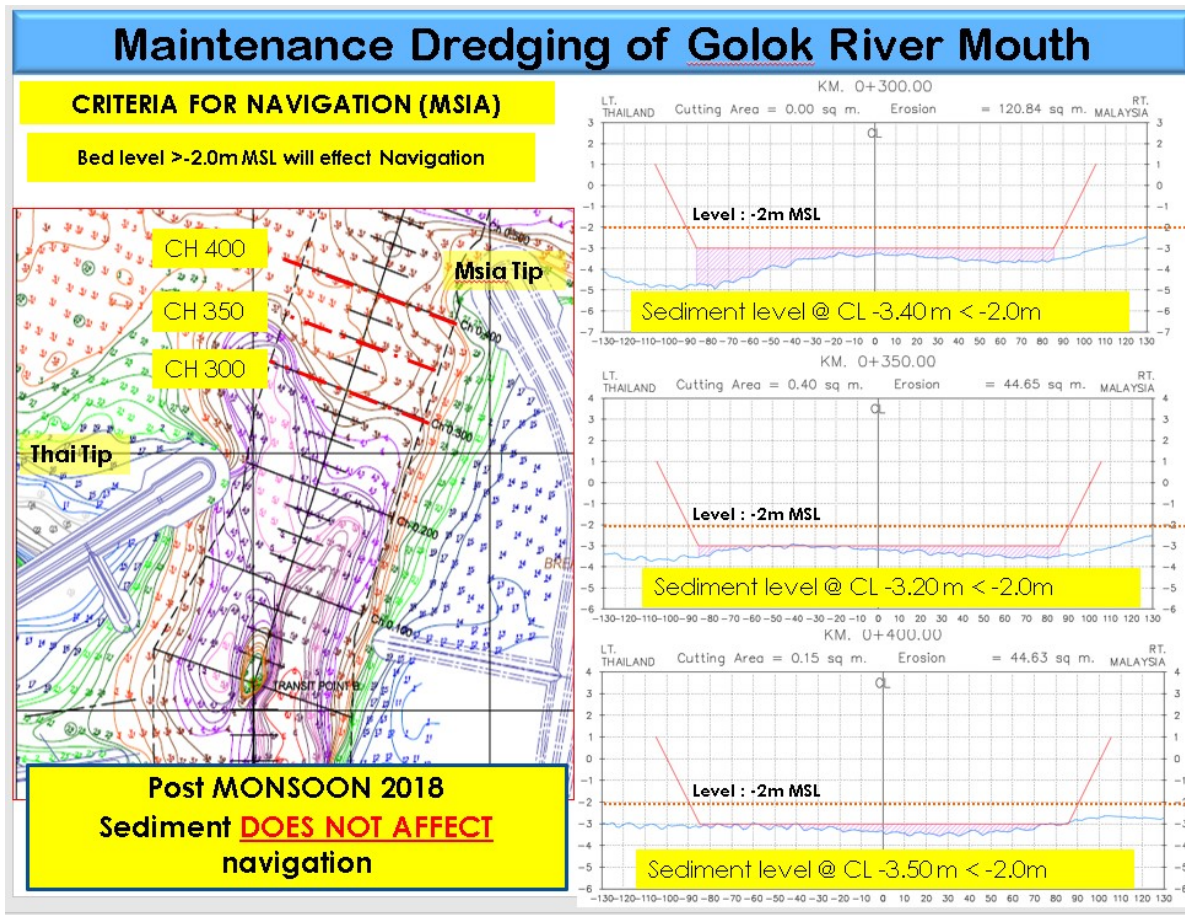
CRITERIA FOR DRAINAGE

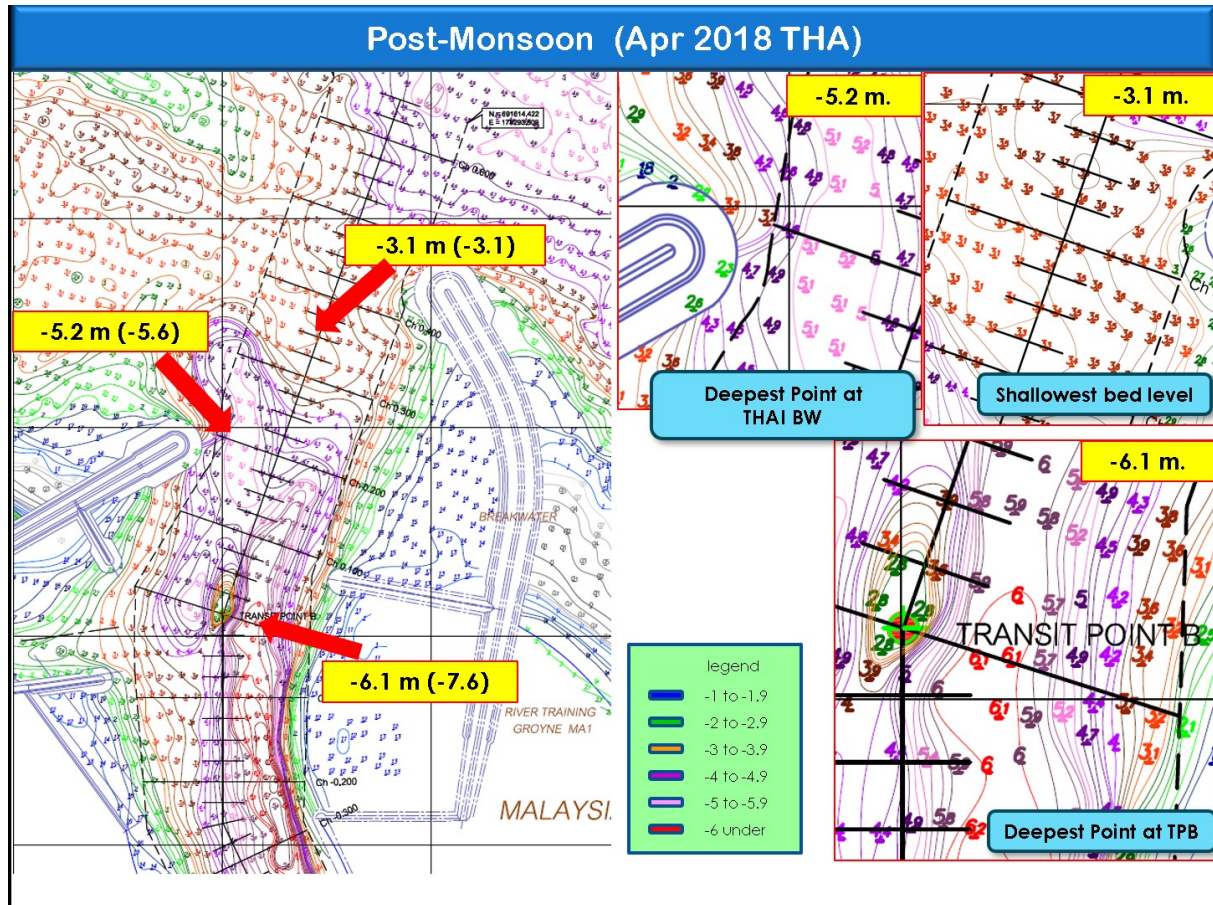


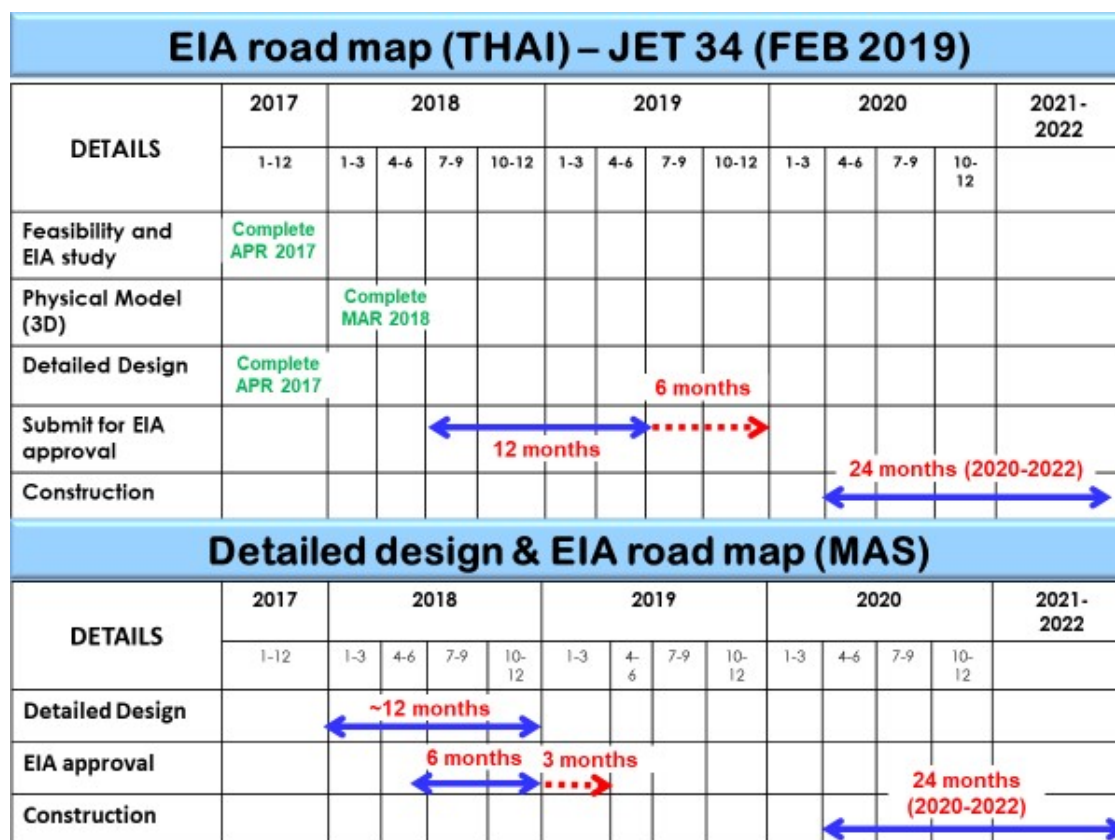
POST MONSOON APR 2018

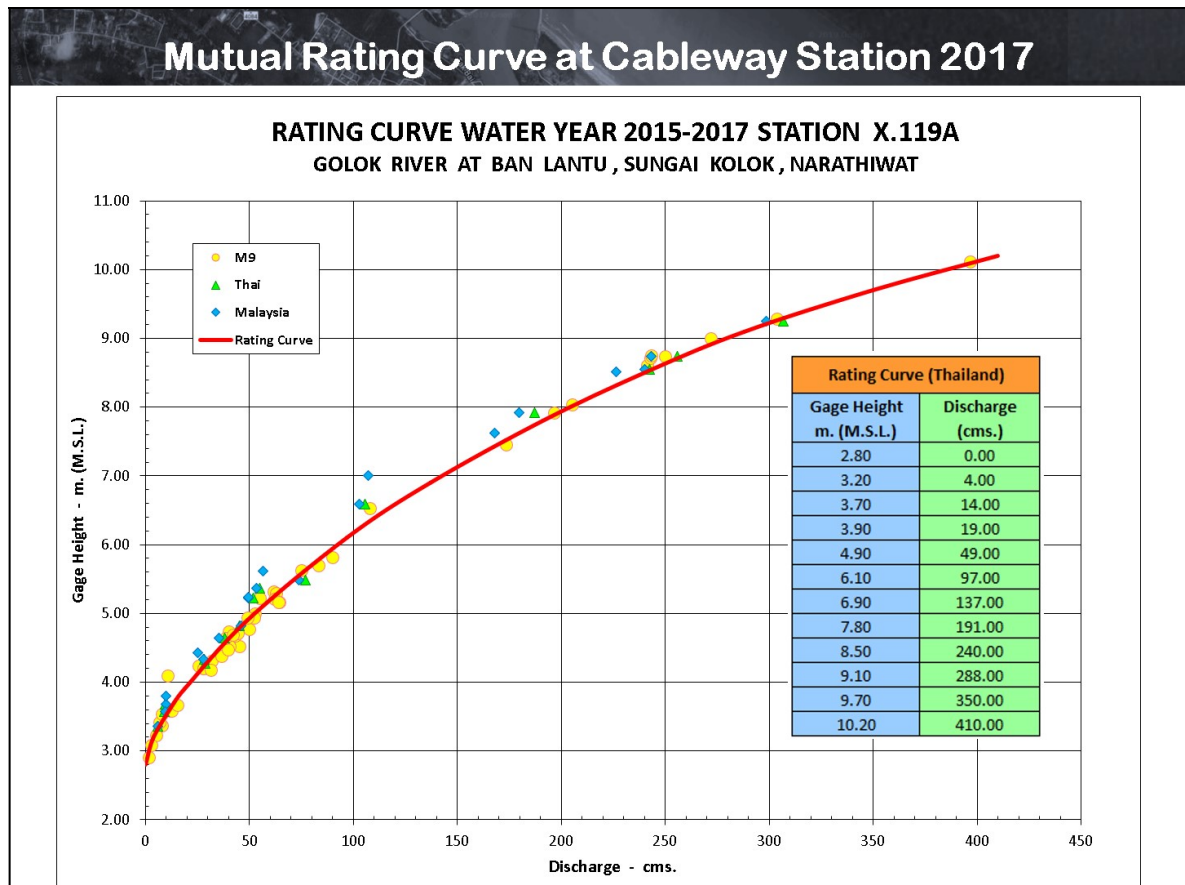
Sediment **DOES NOT AFFECT** Drainage





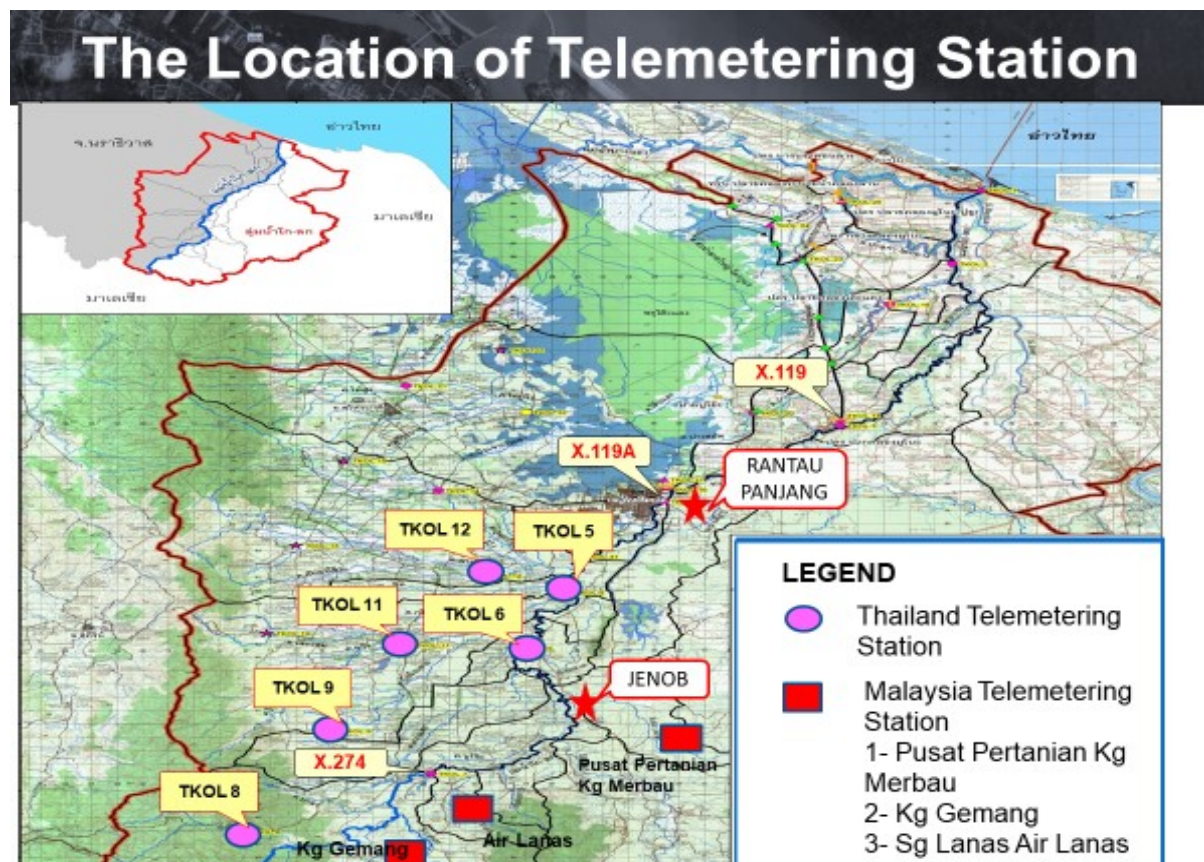






2018 Mutual Gauging Data

No.	Date	Level (m)	Discharge (CMS.)	Area, A (Sq.m.)	Velocity (m/s)
1.	30 Jan 2018	4.930	49.636	105.60	0.470
2.	15 Feb 2018	4.08	11.118	20.295	0.548
3.	29 Mar 2018	3.40	7.277	24.70	0.295
4.	26 Apr 2018	4.17	31.725	73.92	0.429
5.	24 May 2018	3.50	8.263	25.178	0.328
6.	30 Aug 2018	4.51	39.645	78.332	0.506
7.	24 Sept 2018	4.69	38.236	79.675	0.480
8.	30 Oct 2018	4.31	34.954	72.133	0.484
9	28 Nov 2018	4.51	39.612	83.868	0.472
10.*	16 Dec 2018	8.54 (T)	227.010	265.863	0.854
11.*	17 Dec 2018	8.85 (M)	220.236	261.351	0.843
* Individual Gauging					



Malaysia – Thailand Joint Website on the Golok River Basin Information System

http://h2o.water.gov.my/golok/main.html



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HOME
DEVELOPMENT OF THE GOLOK RIVER BASIN
GOLOK RIVER MOUTH IMPROVEMENT PROJECT
CABLEWAY STATIONS ACROSS THE GOLOK RIVER
GOLOK RIVER HYDROLOGICAL INFORMATION
MALAYSIA-THAILAND JOINT COMMITTEES



Development of the Golok River Basin



Golok River Mouth Improvement Project



Cableway Stations across the Golok River



Golok River Hydrological Information



Malaysia - Thailand Joint Committees

Announcements

The 16th Meeting of Malaysia-Thailand,
Joint Steering Committee (JSC) on The
Development of Golok River Basin on 22-25
April 2019 at Genting, Malaysia

News

Visitors

 3,113	 24
 997	 23
 398	 20
 30	 15






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

Malaysia three (3) and Thailand six (6) new telemetry stations already shared on the website



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HOME	DEVELOPMENT OF THE GOLOK RIVER BASIN	GOLOK RIVER MOUTH IMPROVEMENT PROJECT	CABLEWAY STATIONS ACROSS THE GOLOK RIVER	GOLOK RIVER HYDROLOGICAL INFORMATION	MALAYSIA-THAILAND JOINT COMMITTEES
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Pusat Pertanian Kg Merbau	Long - 5°48'37.29" Lat - 102°1'10.10"	1	Click here	Not Available	Not Available
Kg Gemang	Long - 5°44'48.13" Lat - 101°51'28.74"		Click here	Not Available	Not Available
Sg Lanas Air Lanas	Long - 5°47'5.23" Lat - 101°53'22.93" N.		Click here	Click here	Not Available

Stations in Thailand

Station	Longitude and Latitude	Realtime Rainfall Data	Realtime Water Level Data	Available Streamflow Gauging Summary
Bukaeta, Waeng , Narathiwat	Long - 101°53'07" E. Lat - 05°50'21" N.	Click here	Click here	Not Available
Rantau bridge , Sungai Golok , Narathiwat	Long - 101°58'40" E. Lat - 06°01'13" N.	Click here	Click here	Not Available
Muno, Sungai Golok , Narathiwat	Long - 102°02'25" E. Lat - 06°04'30" N.	Click here	Click here	Not Available
The secondary telemetering of Ko-Lok TM		2		

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



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HOME	DEVELOPMENT OF THE GOLOK RIVER BASIN	GOLOK RIVER MOUTH IMPROVEMENT PROJECT	CABLEWAY STATIONS ACROSS THE GOLOK RIVER	GOLOK RIVER HYDROLOGICAL INFORMATION	MALAYSIA-THAILAND JOINT COMMITTEES
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Station Name	Date Time	Water Level (m)	Flow (m3/s)	Rain (mm)					Trend Update
				07:04	08:04	09:04	03:04 To 09:04	10:03 To 09:04	
Level & Rain									
Rain									
Pusat Pertanian Kg Merbau	2019-04-10 12:10:50	-	-	0.0	0.0	0.0	0.0	112.0	2019-04-10 12:00:00
Station Name	Date Time	Water Level (m)	Flow (m3/s)	Rain (mm)					Trend Update
				07:04	08:04	09:04	03:04 To 09:04	10:03 To 09:04	
Level & Rain									
Rain									
Kampung Gemang	2019-04-10 09:11:03	-	-	1.5	0.0	0.0	13.0	36.0	2019-04-10 09:00:00

Malaysia new telemetry data on the
website