



### Minutes of Meeting

# The 32<sup>nd</sup> Meeting of Thailand – Malaysia Joint Evaluation Team

on Golok River Mouth Improvement Project

16 – 17 January 2018 Chiang Rai, Thailand

#### **Minutes of Meeting**

### The 32<sup>nd</sup> Meeting of Thailand - Malaysia Joint Evaluation Team on The Golok River Mouth Improvement Project 16 – 17 January 2018 Chiang Rai, Thailand

#### **AGENDA 1: OPENING ADDRESS**

Mr. Pradab Kladkempetch, the leader of Thai delegates, welcomed the Malaysian delegates to the 32<sup>nd</sup> Meeting of Thailand – Malaysia Joint Evaluation Team (JET) on Golok River Mouth Improvement Project on 16<sup>th</sup> to 17<sup>th</sup> January 2018.

Capt. (R) Dato' Ir. Haji Anuar Bin Haji Yahya, the leader of the Malaysian delegates, expressed his appreciation for the warm welcome and arrangements for the Meeting.

The leader of Thai delegates congratulated the award of Dato' to the leader of Malaysian delegates.

Both sides introduced their delegates and the list of delegates is as shown in APPENDIX A. The Thai side presented the proposed agenda for the Meeting.

#### AGENDA 2: ADOPTION OF AGENDA

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 2018 pre-monsoon survey was carried out by the Thai side in October 2017, as shown in APPENDIX C. It was observed that no sedimentation area in the navigation channel same as post-monsoon survey, whilst erosion area on the Thai side has increased compared to the post-monsoon survey (March 2017).

The sedimentation volume (where bed level is shallower than -3.0m MSL within the navigation channel) have decreased compared to the condition in during post-monsoon (March 2017) whereby no sedimentation was observed inside the navigation channel.

The maximum bed level at the river mouth was observed to be -3.1m MSL, located at the navigation channel; the observed bed level was deeper than previous survey which was -3.0m MSL (March 2017).

The deepest bed level around tip of Thai breakwater is observed to be -5.6 m MSL which may lead to instability of Thai breakwater. This level is deeper compared to previous survey in March 2017.

#### 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:

- (1) When the cross section area of the river mouth between Thailand and Malaysia breakwater tip is blocked up to 30% (for drainage purpose); or
- (2) 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.

#### Section across Thai breakwater and Malaysian breakwater

The pre-monsoon survey (October 2017) as shown in APPENDIX D showed that:

- (a) The cross section of the river mouth is fully open (0% blockage).
- (b) The shallowest sea bed level at the navigation channel is at -3.1m MSL, which is deeper than the dredging criteria (-2.0m MSL).
- (c) Maintenance dredging is not required based on the pre-monsoon survey (March 2017)

The Meeting agreed that based on the results of the post-monsoon (March 2017) and pre-monsoon (October 2017) surveys, the river mouth was not affected by

sedimentation since it did not meet the dredging criteria. Hence, there is no need for the maintenance dredging of Golok River Mouth at the time being.

The meeting agreed to form a committee to discuss regarding method of measurement for river discharge at Golok River Mouth. Both sides agreed to share the discharge value for river tributaries of Golok River in order to predict the river discharge at the river mouth.

#### 3.3 Protection Work of Transit Point B

The Thai side presented the Detail Design of Transit Point B protection work hexagonal shape as shown in APPENDIX E.

The Malaysian side commented that there is difference on the scouring protection level of gabion mattress between the detailed design (+0.00 m MSL) and 2D Physical Model (-3.00 m MSL).

The Thai side agreed to re-design the scouring protection level of transit point B at -3.00 m MSL and the Thai side will present the new design on the next JET meeting.

#### 3.4 Rehabilitation and Protection Works at Golok River Mouth

The Thai side presented the 3D physical model result based on the comments during the Joint Technical Meeting for Golok River Mouth Physical Modelling Work No.3 held on 6 July 2017 as shown in APPENDIX F.

The Malaysian side commented that the wave condition readings need to be calibrated and verified with previous study results. Both sides agreed that the calibration and verification results to be discussed separately by end of March 2018. The final result of the 3D physical modelling works to be presented in the next JET meeting.

The Thai side reported that the approval of the Environmental Impact Assessment (EIA) study is expected to be obtained by January 2019.

The Malaysian side informed that a consultant for detailed design of additional dyke has been appointed in September 2017 and the detailed design period will take ten (10) months.

The rehabilitation works for Golok River Mouth shall start in April 2019.

The revised schedule of work for both sides is as shown in APPENDIX G.

#### 3.5 Mutual Calibration of Rating Curve at Cableway Station

In 2017, ten (10) mutual gauging measurements were done monthly except in May and October. The mutual gauging measurements are as shown in APPENDIX H.

However, gauging measurements were also done using current meter by Malaysian side except for the month of June, July, November and December.

The Meeting agreed to present the 2017 rating curve in the next JET meeting.

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

#### New Telemetry stations and joint website

The Thai side informed that the data sharing of six (6) new telemetry stations are under progress. The new expected completion date is December 2018. The meeting agreed that data will be shared when both sides are ready. The revised schedule for new telemetering stations is as shown in APPENDIX J.

#### **AGENDA 4: OTHER MATTERS**

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

The Malaysian side reported that:-

(a) Malaysian side working committee is still working on the amendments to the principal Agreement. The first draft on the amendments to the principal Agreement is not ready to be discussed in this JET meeting. (b) The Meeting agreed that the first draft on the amendments to the principal Agreement will be presented in the 33<sup>rd</sup> JET meeting.

#### 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: April / May 2018
Venue: Langkawi, Malaysia.

#### **AGENDA 5: MATTERS TO BE REFERRED TO THE JTWG**

#### **Matters for Consideration**

- 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 the Joint Websites for Golok River Basin

#### **Other Matters**

1. 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 thirty second Meeting of Malaysia – Thailand Joint Evaluation Team on the Golok River Mouth Improvement Project.

(Mr. Pradab Kladkempetch)
Co-Chairman

PKladkempetch

Joint Evaluation Team, Thailand

(Capt. (R) Dato' Ir. Haji Anuar Bin Haji Yahya)

Co-Chairman

Joint Evaluation Team, Malaysia

### **LIST OF THAI DELEGATES**

1.	Name Designation Department  Contact no. Email	Mr. Pradab Kladkempetch Director Bureau of Project Management Royal Irrigation Department Thailand +668 4700 0541 pradab_kla@hotmail.com
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7.		Name	Mr. Abdultoleb Hemhoh				
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#### **APPENDIX B**

# THE 32<sup>ND</sup> MEETING OF THAILAND - MALAYSIA 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**

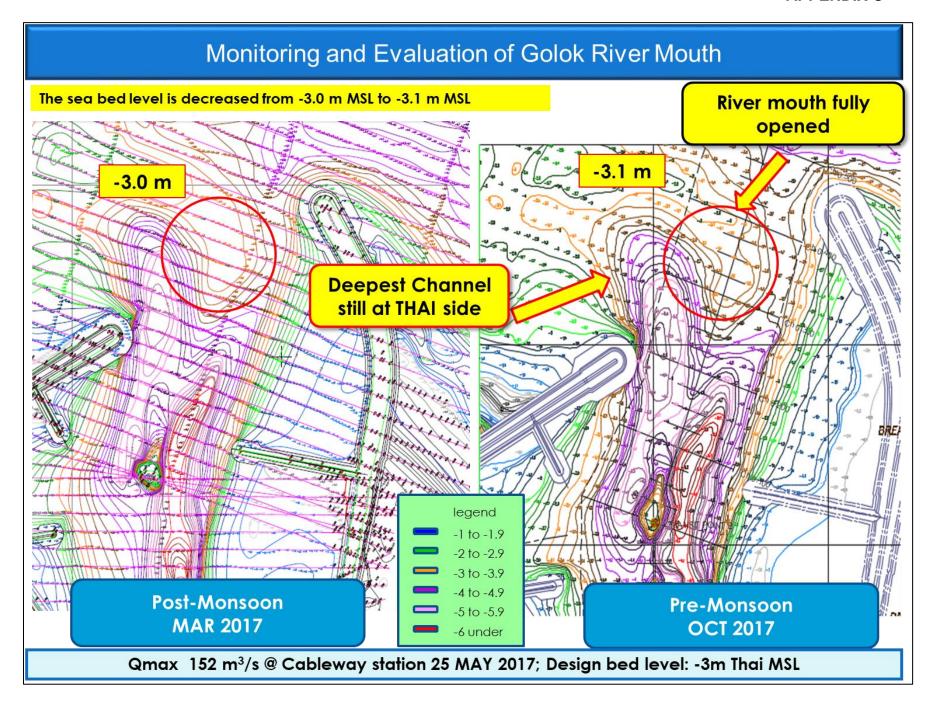
- 3.1 MONITORING AND EVALUATION OF GOLOK RIVER MOUTH
- 3.2 MAINTENANCE DREDGING OF GOLOK RIVER MOUTH
- 3.3 PROTECTION WORK AT TRANSIT POINT B
- 3.4 REHABILITATION AND PROTECTION WORKS AT GOLOK RIVER MOUTH
- 3.5 MUTUAL CALIBRATION OF RATING CURVE AT CABLEWAY STATION
- 3.6 REAL TIME MONITORING SYSTEM AND THE JOINT WEBSITE FOR GOLOK RIVER BASIN

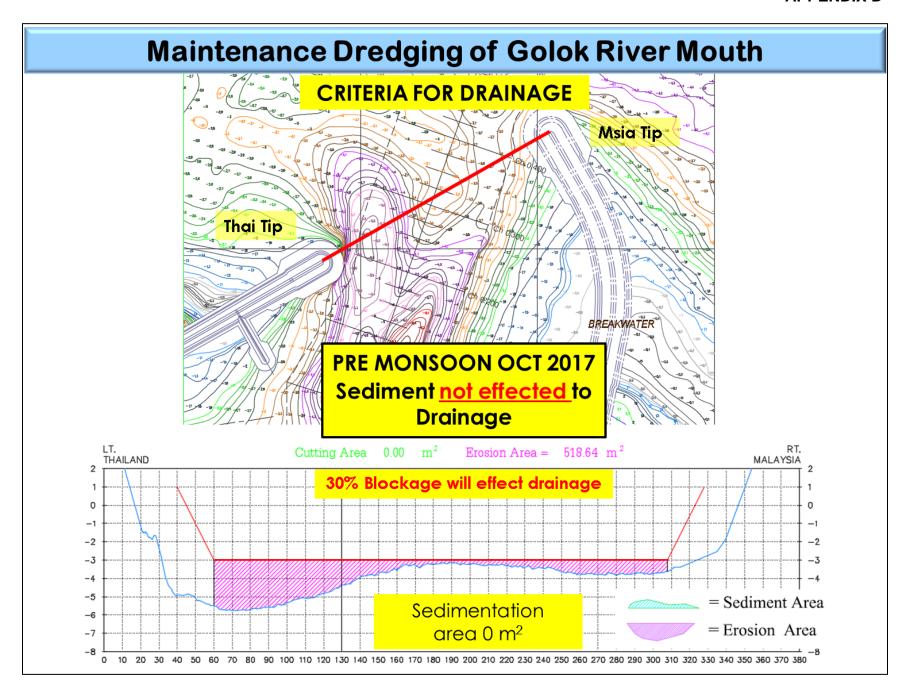
#### **AGENDA 4: OTHER MATTERS**

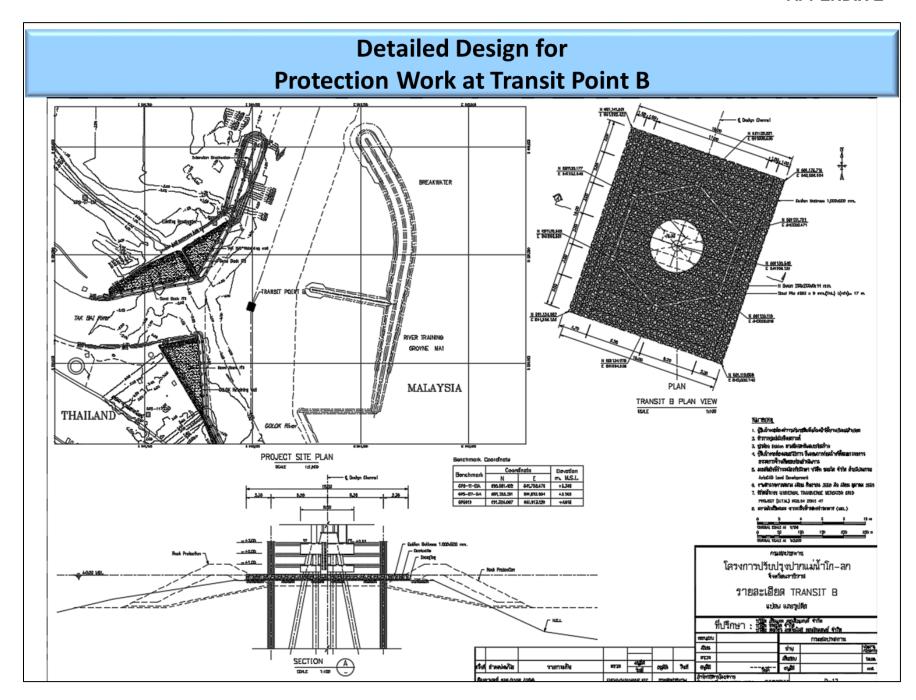
- 4.1 INTEGRATED RIVER BASIN MANAGEMENT (IRBM) PLAN FOR GOLOK RIVER BASIN
- 4.2 DATE AND VENUE FOR NEXT MEETING

**AGENDA 5: MATTERS TO BE REFERRED TO JTWG** 

**AGENDA 6: ADOPTION OF MINUTES OF MEETING** 







Test 1: Wave Transformation from deepwater zone to coastal zone and river mouth

Sea water level 0.0m MSL

Stroke of	Prototype Wave Height (m)					
Wave Generator (cm)	Deepwater (sea bed -32.0m MSL)	Point 1 (sea bed -5.1m MSL)	Point 2 (sea bed -4.0m MSL)	Point 1 (river mouth)		
16	2.80	3.28	2.96	2.88		
18	2.96	2.96	2.96	2.96		
20	3.60	3.60	3.60	4.48		
22	4.24	3.52	3.52	3.84		

Note: 100yr return period, deepwater wave height 3.82m

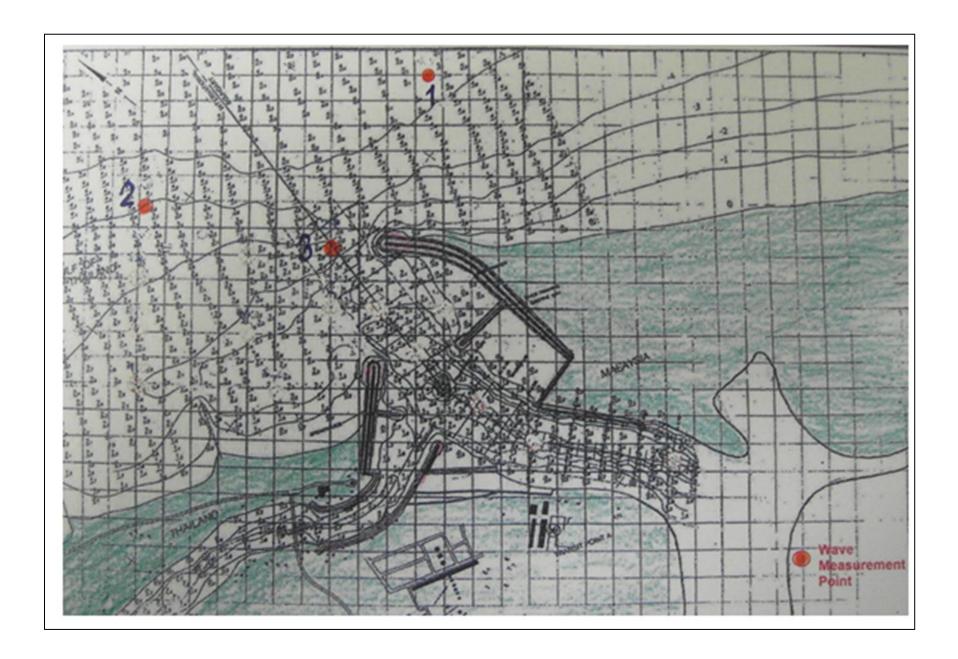
100yr + 10% return period, deepwater wave height 4.20m

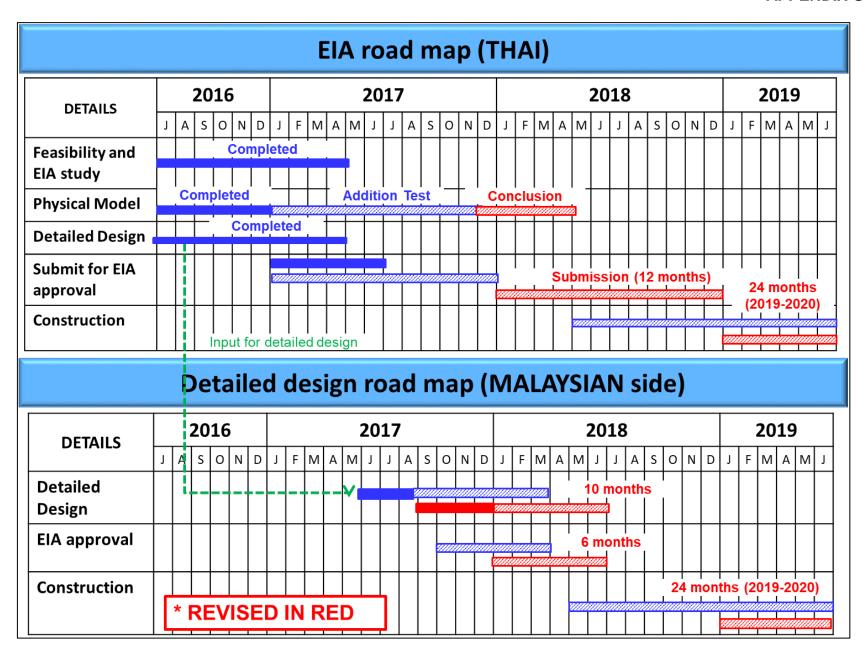
Test 2: Wave Transformation from deepwater zone to coastal zone and river mouth Sea water level +1.0m MSL

Stroke of	Prototype Wave Height (m)						
Wave Generator (cm)	Deepwater (sea bed -32.0m MSL)	Point 1 (sea bed -5.1m MSL)	Point 2 (sea bed -4.0m MSL)	Point 1 (river mouth)			
14	2.72	2.48	2.08	2.32			
16	3.68	4.40	4.00	3.68			
18	3.68	4.40	4.00	4.32			
20	4.32	4.48	4.08	4.24			
22	4.72	4.32	5.28	5.44			

Note: 100yr return period, deepwater wave height 3.82m

100yr + 10% return period, deepwater wave height 4.20m





# Agenda 3.5: Mutual Calibration of Rating Curve at Cableway Station

Mutual Gauging 2017						
Date	Level (m)	Width (m)	Area, A (m2)	Velocity, V (m/s)	Discharge, Q (m3/s)	Remarks
25 January 2017	8.990	64.60	288.012	0.945	272.210	M 9
21 February 2017	4.700	39.78	98.931	0.453	44.817	M 9
30 March 2017	4.190	34.74	73.497	0.385	28.305	M 9
20 April 2017	4.460	36.18	84.017	0.477	40.079	M 9
21 June 2017	4.190	37.84	73.690	0.384	28.266	M 9
20 July 2017	4.630	37.77	90.944	0.428	38.896	M 9
24 August 2017	4.930	38.39	104.912	0.503	52.725	M 9
18 September 2017	5.810	40.63	140.038	0.645	90.300	M 9
30 November 2017	10.100	65.09	360.100	1.165	419.608	M 9
27 December 2017	4.680	37.84	96.013	0.444	42.608	M 9

## **Progress of New Telemetry Station**

