



**MINISTRY OF AGRICULTURE
AND COOPERATIVES
THAILAND**



**MINISTRY OF NATURAL RESOURCES
AND ENVIRONMENT
MALAYSIA**

REPORT

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

**BANGKOK, THAILAND
02 – 03 MARCH 2016**

REPORT

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

Bangkok, Thailand

2 – 3 March 2016

INTRODUCTION

The Fifteenth Meeting of the Thailand – Malaysia Joint Steering Committee (JSC) on the Development of the Golok River Basin was held at Bangkok, Thailand from the 2nd to 3rd March 2016.

The Meeting was co-chaired by Mr. Lertviroj Kowattana, Deputy Permanent Secretary, Ministry of Agriculture and Cooperatives (MOAC), Thailand and YBhg. Dato' Sri Azizan Bin Ahmad, Secretary General, Ministry of Natural Resources and Environment (NRE), Malaysia.

The list of members of both delegations is as shown in **Annexes A1 and A2**.

AGENDA 1 OPENING REMARKS

- 1.1 Mr. Lertviroj Kowattana as the Head of the Thai Delegation in his opening address welcomed both delegates from Malaysia and Thailand to the 15th JSC Meeting. He stated that it was an honor and first time for him to co-chair this meeting with YBhg. Dato' Sri Azizan Bin Ahmad. He hoped that the Meeting would be conducted in the most efficient manner with the support and commitment from both sides.
- 1.2 YBhg. Dato' Sri Azizan Bin Ahmad, the Head of the Malaysian Delegation expressed his sincere thanks and heartfelt appreciation for the warm welcome and kind hospitality accorded to the Malaysian delegates.
- 1.3 The Opening Address of Mr. Lertviroj Kowattana and the Opening Address of YBhg. Dato' Sri Azizan Bin Ahmad are as in **Annexes B1 and B2**.
- 1.4 Mr. Lertviroj Kowattana introduced the members of the Thai delegates and invited YBhg. Dato' Sri Azizan Bin Ahmad to introduce his delegations.

AGENDA 2 ADOPTION OF THE PROPOSED AGENDA

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

AGENDA 3 MATTERS FOR INFORMATION

3.1 Report of Monitoring and Evaluation of Golok River Mouth

The Meeting is informed that:

- (1) The maximum sea bed level for post and pre-monsoon decrease from -2.1m to -2.3m MSL respectively. The surveys and the comparison of the seabed level at the river mouth is as shown **Annex D**.
- (2) The sedimentation area (higher -3.00 MSL) during pre-monsoon is lesser (57%) than post-monsoon from 21,267 sq.m to 9,168 sq.m.
- (3) The total sedimentation volume during pre-monsoon is lesser (63%) than post-monsoon from 7,442 cu.m to 2,686 cu.m.

Endorsement by JSC

The Meeting agreed to endorse the need for JTWG and JET to continue with the monitoring surveys with more detail analysis.

3.2 Maintenance Dredging of Golok River Mouth

The Meeting is informed that the maintenance dredging is required base on the following criteria from the Joint Hydraulics Studies:

- (a) The cross section of the river mouth between Thai and Malaysian breakwater tips is blocked up to 30% (for upstream flood control); and
- (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 of maintenance dredging.

The Meeting is informed that the results of pre-monsoon survey 2015:

- (a) The sediment area is blocked about 2.8% as shown **Annex D1**.
- (b) The maximum sea bed level is at -2.3m MSL as shown **Annex D2**.
- (c) Erosion at Thai breakwater is at -6.3m MSL as shown **Annex D3**.

The Meeting is informed that at present there is no need for dredging at the Golok River Mouth.

Endorsement by JSC

The Meeting agreed with the criteria for dredging needs. The Meeting acknowledged the results of pre-monsoon survey 2015 and agreed that there is no need for dredging at the Golok River Mouth at present.

3.3 Protection works at Transit Point B

The Meeting is informed that from The Joint Hydraulic Model Study (2013), Thai side has proposed two options of Transit Point B protection work, which is in oval shape and hexagonal shape. The suitable shape of protection work of Transit Point B will be clarified by physical model. Thai side is waiting for budget approval for physical model for Golok River Mouth rehabilitation works including Transit Point B.

Endorsement by JSC

The Meeting agreed that the suitable shape of protection work will be confirmed by the physical model. The Transit Point B protection work shall obtained agreement of JSC prior to implementation work.

3.4 Rehabilitation and Protection Works at Golok River Mouth

The Thai side informed that they have been conducting Feasibility study (FS), Environmental Impact Assessment (EIA), and detailed design from October 2015 and it is expected to be completed by December 2016. The detailed design of the breakwater extension will be commenced in the second half of 2016.

The Thai side informed that the budget for physical model was not available at the same time with FS and EIA study. However the Thai side try to obtain budget for carrying out physical model study by April 2016. The EIA approval process would take at least 6 months in 2017.

Both sides agreed that in order to carry out detailed design, it is necessary to obtain results from the physical model. The Malaysian side informed that the detailed design may start 2 months before the completion of the physical model study and will take approximately 1 year to complete.

Endorsement by JSC

The Meeting agreed that the implementation of physical work will need to get endorsement by JSC.

3.5 Mutual Calibration of Rating Curve at Cableway Station

In 2015, mutual hydraulic measurements were done in May, July, August, November and December. It was found that the relation of water level and river discharge conformed to the mutual rating curves of last year. The peak discharge of year 2015 up to December 2015 was 269 cms (on 1st December 2015) which was very low compared to flows during other monsoon periods. The Common Rating Curve at Cableway Station is shown as in **Annex E**.

Endorsement by JSC

The Meeting acknowledged the developed Common Rating Curve.

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

The Thai side reported that 6 new telemetering stations are under calibration for one year from June 2015 until May 2016. The data will be uploaded from June 2016 for sharing.

The Malaysian side reported that hydrological data at three new telemetering stations will be collected and calibrated for 1 year from October 2015 to September 2016. The data will be uploaded from October 2016.

Endorsement by JSC

The Meeting agreed that all available and future hydrological data are to be shared by both countries as shown in **Annex F**.

AGENDA 4 MATTERS FOR CONSIDERATION

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

The Meeting is informed that IRBM is endorsed as a new agenda in principle on JSC14. JSC14 also assigned JTWG and JET to work out more details of the IRBM implementation. The proposed road map for IRBM is as shown in **Annex G**.

However, refer to the Agreement signed on 8 March 1997, the scope of work for JTWG and JET is limited to Golok River Mouth Improvement Works. Hence, the Meeting is informed that there is a need to expand the scope of work of JTWG and JET.

Endorsement by JSC

- (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.

AGENDA 5 OTHER MATTERS

5.1 Date and venue of the next JSC meeting

The Meeting agreed to convene the 16th Meeting of the JSC as follows:

- Host: Malaysia
- Proposed Date: March 2018 or as and when necessary
- Proposed Venue:
 1. Kuala Terengganu, Malaysia
 2. Kuching, Malaysia
 3. Genting Highland, Malaysia

AGENDA 6 ADOPTION OF THE REPORT OF THE MEETING

The Meeting acknowledged and adopted the Report of the 15th Meeting of the JSC on the Development of the Golok River Basin.

AGENDA 7 CLOSING SESSION

The Deputy Permanent Secretary, Ministry of Agriculture and Cooperatives (MOAC), Thailand expressed his appreciation to all members of the JSC for their contributions for the successful meeting and wished the Malaysian delegates a safe journey home.







The Secretary General, Ministry of Natural Resources and Environment (NRE), Malaysia expressed his appreciation to the Thai delegation and the Secretariat for their valuable cooperation and excellent arrangements for the Meeting.


**15TH MEETING OF THAILAND-MALAYSIA
JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN**

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6.		Name Designation Department Contact no. Email	Mr. Waemamu Waehama Director of Golok River Basin Operation and Maintenance Project Office of Regional Irrigation 17 Royal Irrigation Department +6681 798 1402 waemamu_waea@hotmail.com
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**15TH MEETING OF THAILAND-MALAYSIA
JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN**

LIST OF MALAYSIAN DELEGATES

1.		Name Designation Department Contact no. Email	Dato' Sri Azizan Bin Ahmad Secretary General Ministry of Natural Resources and Environment +603 8886 1651 azizan@nre.gov.my
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**OPENING ADDRESS
BY
MR. LERTVIROJ KOWATTANA
DEPUTY PERMANENT SECRETARY
MINISTRY OF AGRICULTURE AND COOPERATIVES, THAILAND**

**AT THE FIFTHTEENTH MEETING OF
THAILAND – MALAYSIA JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN
2 MARCH 2016, BANGKOK, THAILAND**

YBhg. Dato' Sri Azizan Bin Ahmad,
Secretary General,
Ministry of Natural Resources and Environment, Malaysia,

Distinguished Delegates,

Ladies and Gentlemen,

On behalf of the Ministry of Agriculture and Cooperatives of the Kingdom of Thailand as well as on my own behalf, I would like to extend my warmly welcome you all to the Fifteenth Meeting of Thailand - Malaysia Joint Steering Committee on the Development of the Golok River Basin today.

As all of us are well aware, the Joint Steering Committee Meeting has gone its long way in fostering understanding, goodwill and cooperation between us. It brings the well-being and incomes of the people in the Golok river basin on both banks of the river which leads to the success of the Golok River Mouth Improvement Project today.

I hope that with the share relations and the common desire for economic, social and environmental benefits, we will lend each other a hand at times in need to tackle all the problems and barrier ahead of us.

Finally, I wish this Meeting success in all aspect as both side expected. I also wish you all a pleasant stay here and I do hope you have the opportunity, in your free time, to visit the various interesting places in Bangkok.

May I take this opportunity to let the Thai delegation to introduce themselves.

Thank you.

**OPENING ADDRESS
BY
DATO' SRI AZIZAN BIN AHMAD
SECRETARY GENERAL
MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT, MALAYSIA**

**AT THE FIFTHTEENTH MEETING OF
THAILAND – MALAYSIA JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN
2 March 2016, Bangkok, Thailand**

Your Excellency Khun Lertviroj Kowattana,
Deputy Permanent Secretary,
Ministry of Agriculture and Cooperatives (MOAC), Thailand.

Your Excellency, Ladies and Gentleman,

Good Morning, *Sawadee Krab* and *Selamat Pagi*,

It is with great pleasure and honor for me to lead the Malaysian Delegates to Bangkok, Thailand to attend this 15th Meeting of Thailand – Malaysia Joint Steering Committee (JSC) on the Development of Golok River Basin. I am much honored to be able to Co-Chair this meeting with Khun Lertviroj this morning. I would like to take this opportunity to thank the Ministry of Agriculture and Cooperatives of Thailand for your kindness and hospitality extended to me and my delegation.

Ladies and Gentleman,

This biennial JSC meeting provides an excellent opportunity for us to discuss and fortify our joint cooperation program, namely:

- (i) The monitoring and evaluation of Golok River Mouth;
- (ii) The maintenance dredging of Golok River Mouth;
- (iii) The protection work at Transit Point B;

- (iv) The rehabilitation and protection works at Golok River Mouth;
- (v) The mutual calibration of Rating Curve at Cableway Station; and
- (vi) The Real Time Monitoring System and the Joint Website for Golok River Basin.

In addition, this meeting will acknowledge and endorse the agenda for the Integrated River Basin Management (IRBM) Plan for Golok River Basin.

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.

Your Excellency,

Once again I would like to congratulate your goodself for hosting this well arranged meeting and convey my sincere thanks for your kind hospitality. Last but not least, we are glad to be here in this beautiful city, Bangkok and we are sure our short stay here will create another joyful memory. May our efforts be blessed and may this session be a productive one.

Thank you.

Proposed Agenda

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

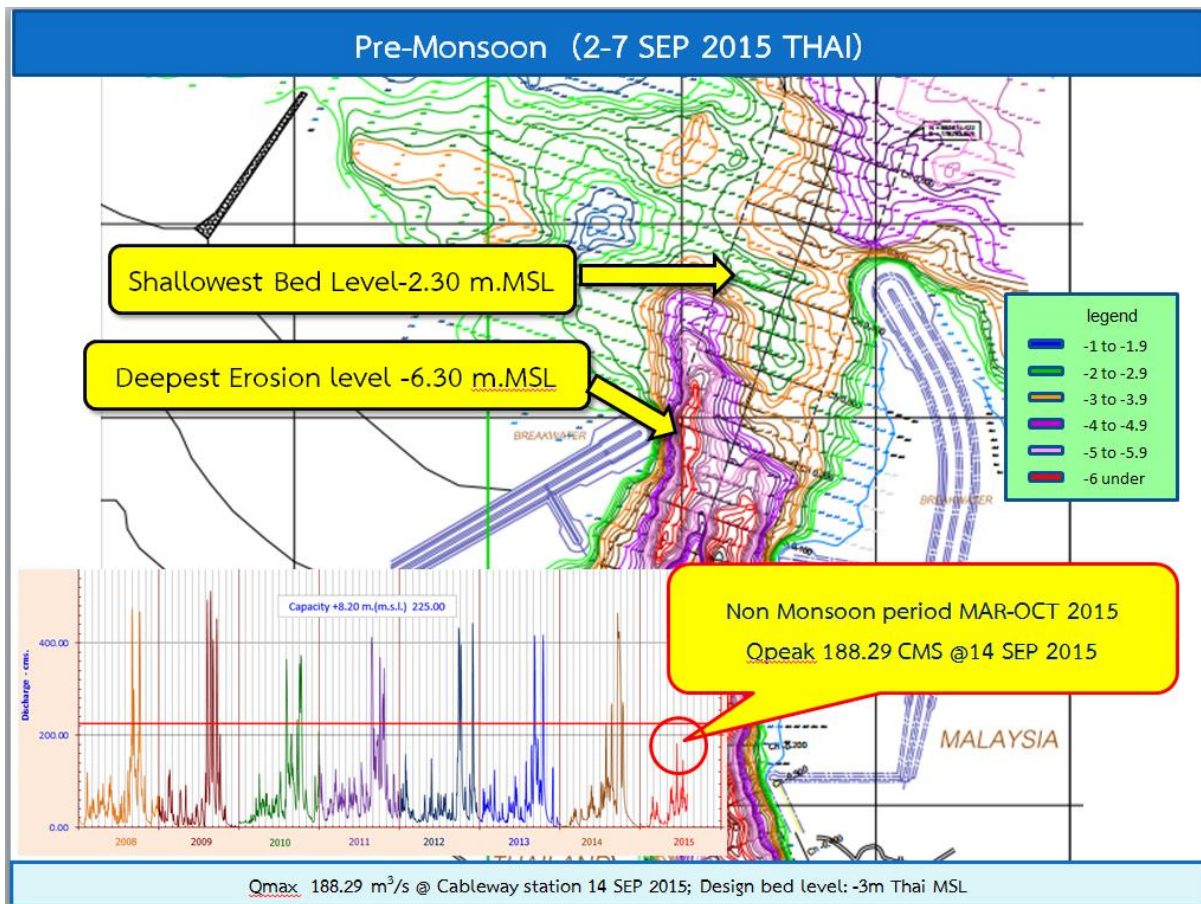
- 4.1 Integrated River Basin Management (IRBM) Plan for Golok River

Agenda 5: Date and venue for next Meeting

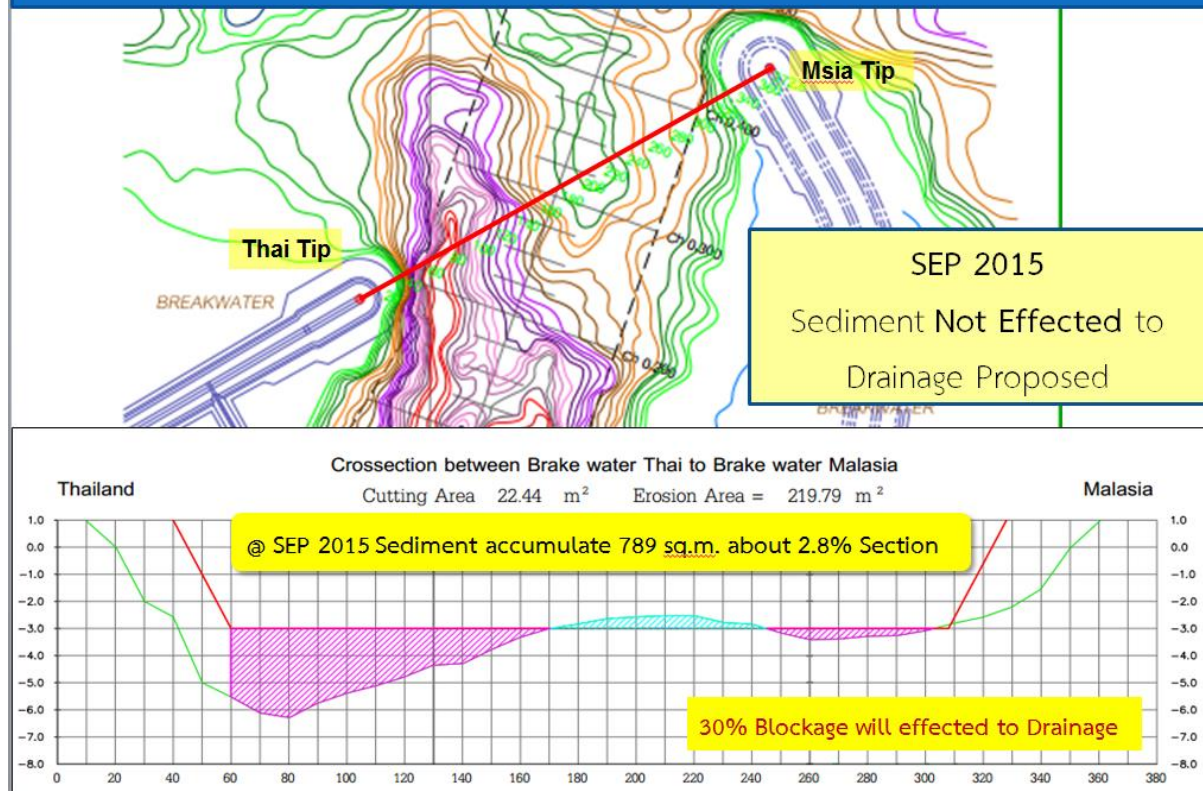
Agenda 6: Adoption of the report of the Meeting

Agenda 7: Closing Session

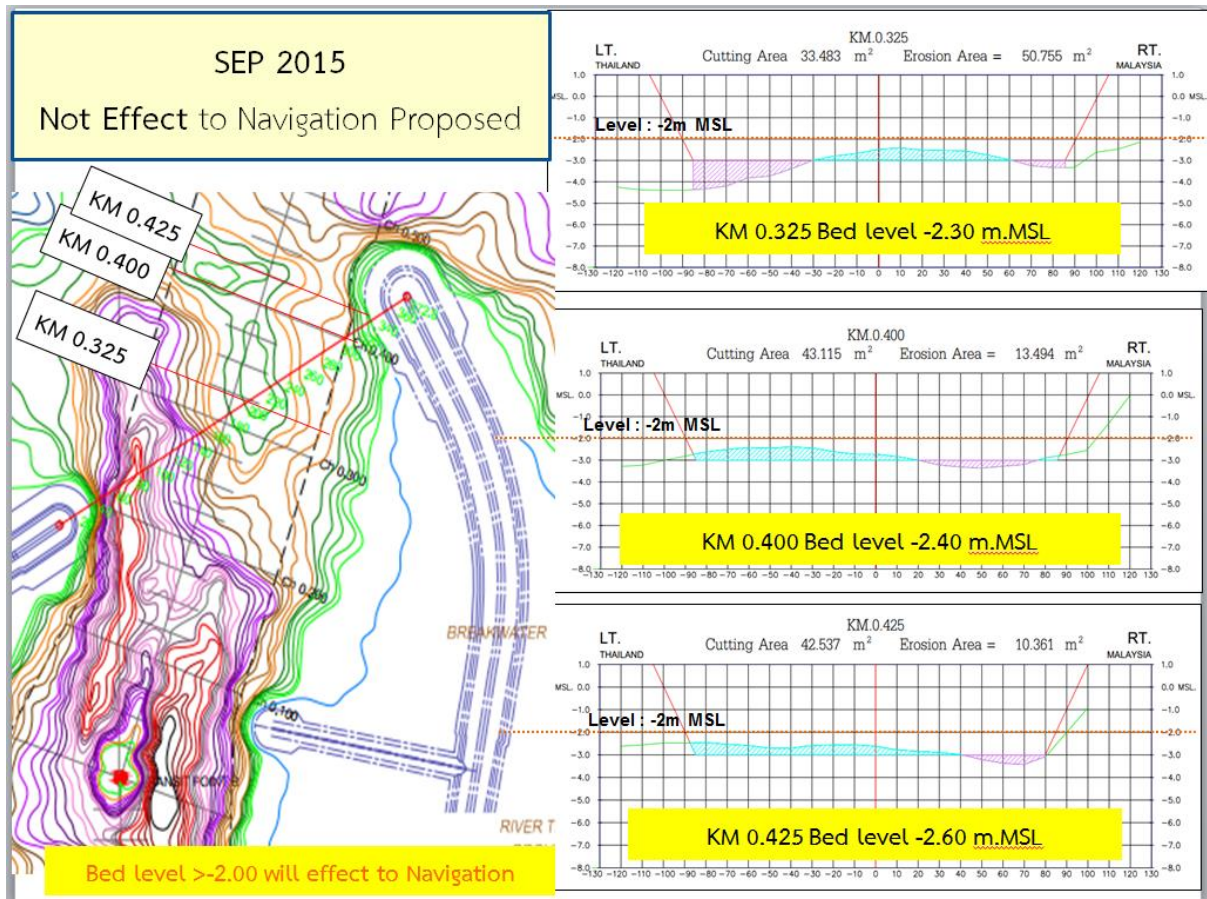
ANNEX D

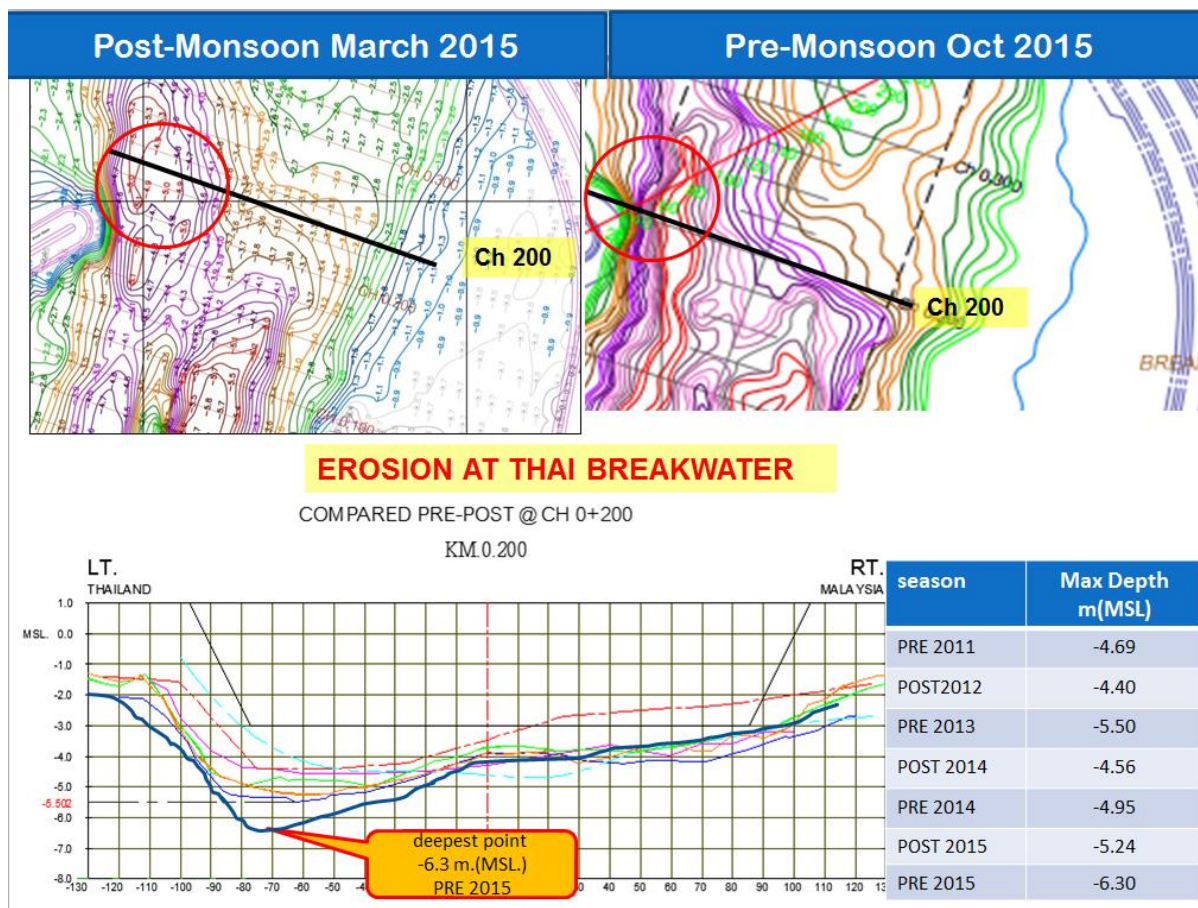


Maintenance Dredging of Golok River Mouth



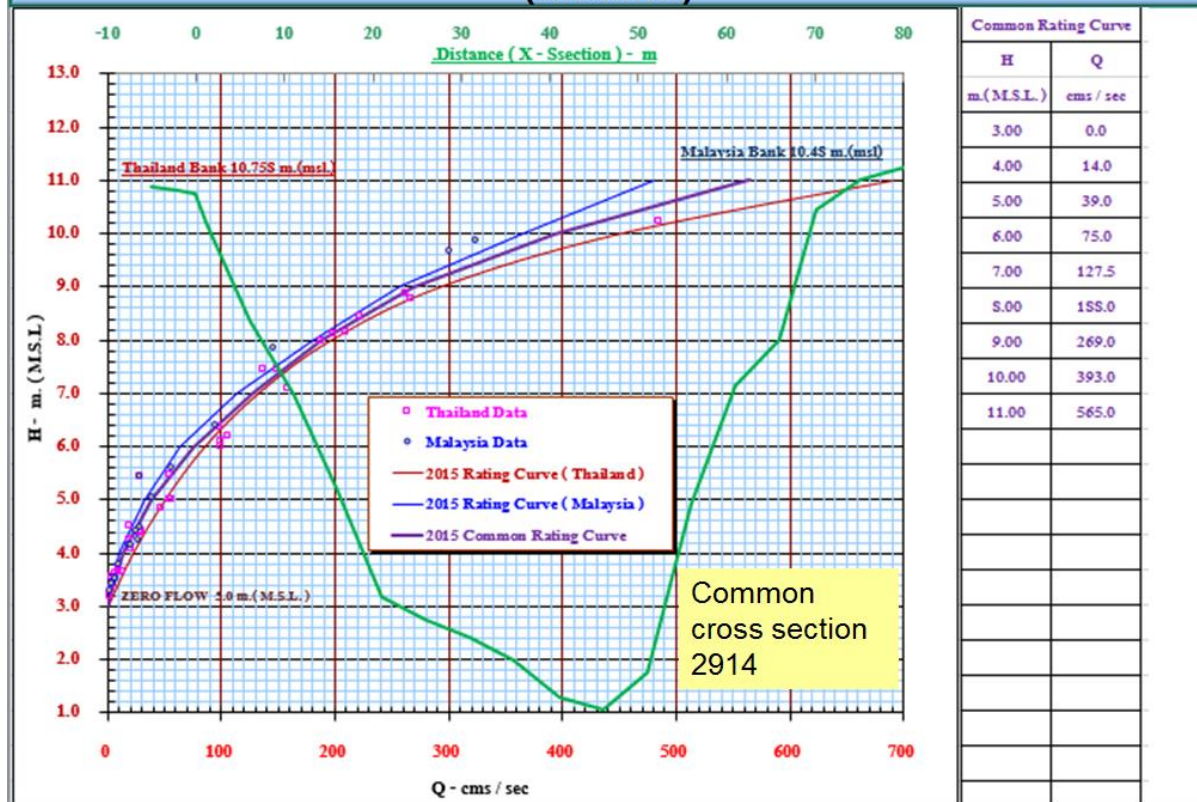
ANNEX D2





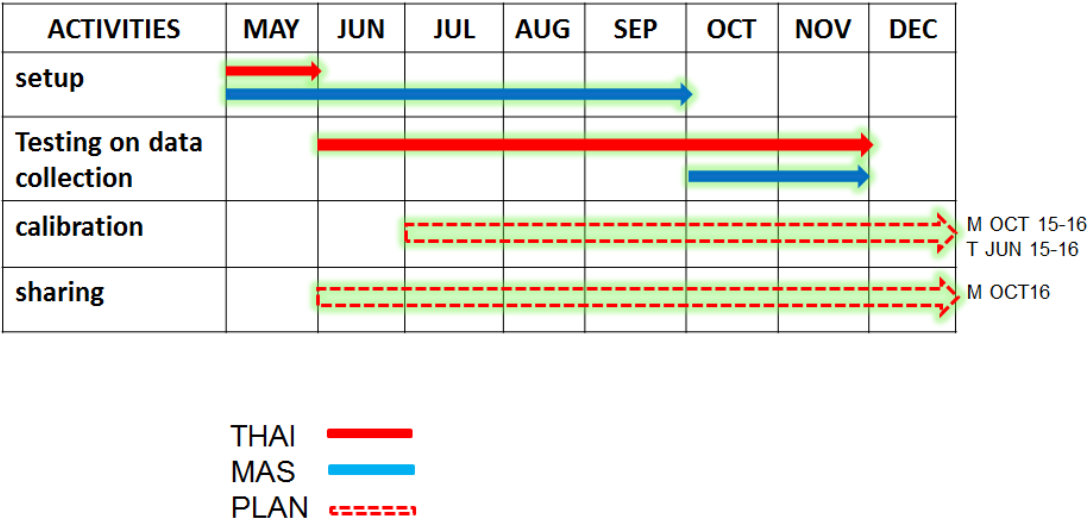
ANNEX E

Rating Curve at Cableway station 2015 (oct)



Progress of new telemetering station

Proposed Road map



JET & JTWG on the Golok River Mouth Improvement

Continuous

- 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

JET & JTWG (IRBM) on the Development of the Golok River Basin

6 month

12 month

18 month

24 month

Data collection and assessment of relation of

1. Rainfall/river discharge/sea water level/river mouth opening and flood map

Data collection and assessment of

2. hydrological and current water resources development from **upstream to downstream**

Data collection and assessment of

3. Drought – water demand/water use
4. Surface and groundwater uses and potential

Data collection and assessment of

5. sediment in Golok river (if secondary data is available)
6. current **water resource** uses and **land resource** development

Data collection and assessment of

7. Water quantity and water quality

Conclusion and report

**CLOSING REMARKS
BY
MR. LERTVIROJ KOWATTANA
DEPUTY PERMANENT SECRETARY
MINISTRY OF AGRICULTURE AND COOPERATIVES, THAILAND
AT THE FIFTHTEENTH MEETING OF
THAILAND – MALAYSIA JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN
2 MARCH 2016, BANGKOK, THAILAND**

Now we come to the last agenda of our Meeting today which is Agenda 7: Closing Session.

In concluding this Meeting, I would like to express my satisfaction for the successful deliberation of the 15th Meeting of Thailand-Malaysia Joint Steering Committee on the Development of the Golok River Basin today.

We must now ensure that all the issues at this Meeting have been served the common benefits of both sides. With the spirit of friendship and close cooperation, I am sure that we will see the progress of the implementation activities in the near future.

I wish to express my thanks to the officers of both sides for facilitating our discussions. I am looking forward to the 16th Meeting of the Joint Steering Committee which will be another opportunity for us to meet and exchange views for further development of the Golok River Basin.

I also take this opportunity to apologize for any inconveniences that might occur during your stay in Thailand. I wish you and your delegation a safe and pleasant journey back home.

Thank you.

**CLOSING REMARKS
BY
DATO' SRI AZIZAN BIN AHMAD
SECRETARY GENERAL
MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT, MALAYSIA
AT THE FIFTHTEENTH MEETING OF
THAILAND – MALAYSIA JOINT STEERING COMMITTEE
ON THE DEVELOPMENT OF THE GOLOK RIVER BASIN
2 March 2016, Bangkok, Thailand**

Your Excellency Khun Lertviroj Kowattana,
Deputy Permanent Secretary,
Ministry of Agriculture and Cooperatives (MOAC), Thailand.

Your Excellency, Ladies and Gentleman,

We have come to the end of our 15th Joint Steering Committee Meeting. It has been a great honor to be able to co-chair this meeting with Khun Lertviroj and thanks to the cooperation and active contribution of all the members who have indeed made this meeting a productive one.

Undoubtedly, this meeting provides an excellent opportunity for us to discuss and fortify our joint cooperation program. Other than discussing related issues to this cooperation, I am glad that we are also able to share other technical and common issues together for the betterment of both countries.

This morning, during our deliberations and considerations, we have successfully reached many agreements concerning our cooperation projects in the Golok River Basin. It is my belief that this spirit of cooperation will continue and become a path to numerous opportunities for future cooperation.

Ladies and Gentleman,

On behalf of the Ministry of Natural Resources and Environment, Malaysia, I would like to thank the organizing committee and the Meeting Secretariat for their excellent efforts, without whom the Meeting would not have been a success. Your great efforts have indeed made our stay in Bangkok very comfortable and extremely memorable.

Last but not least, I would like wish to Khun Lertviroj, and all delegates a safe journey home to your family and friends. We hope to see you again in the near future or in the next 16th JSC Meeting to be hosted by Malaysia in the year 2018.

Thank you.