



Department of Irrigation and  
Drainage

## Minutes of Meeting

# **The 22<sup>nd</sup> Meeting of Thailand – Malaysia Joint Evaluation Team on Golok River Mouth Improvement Project**

7 – 8 November 2012  
Chiang Rai, Thailand

## **Minutes of Meeting**

### **The 22nd Meeting of Thailand – Malaysia Joint Evaluation Team on The Golok River Mouth Improvement Project**

**7 – 8 November 2012  
Chiang Rai, Thailand**

---

#### **AGENDA 1: OPENING ADDRESSES**

Mr. Somkiat Prajamwong, the leader of the Thai Delegation, welcomed the Malaysian Delegation to the 22nd Meeting of the Joint Evaluation Team (JET) on the Golok River Mouth Improvement Project on 7– 8 November 2012 in Chiang Rai, Thailand.

Dato' Ir. Lim Chow Hock, 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.

Thai side presented the proposed agenda for this meeting as well as the brief content and continuity of each agenda to the meeting. The meeting agreed to slightly modify the proposed agenda and the adopted agenda is as shown in Appendix B

#### **AGENDA 2: MATTERS FOR CONSIDERATION**

##### **2.1 Report of Monitoring and Evaluation of Golok River Mouth**

The pre monsoon survey in October 2012 was carried out by the Malaysian side. The survey plans are as shown in Appendix C. It is found that sedimentation has accumulated more than last post monsoon survey. The cross sections at Golok river mouth from section +300 m. to +450 m. (at tip of Malaysian breakwater) have been significantly shallower. The direction of river flow and the main deep channel have moved toward the Thai coastal side.

The sand sedimentation has accumulated since 2008, even during monsoon season in the Golok river discharge was not sufficient enough to flush the sediment accumulated in river mouth. It is noticed that the sand had filled up the Malaysian coastline and moved across the tip of Malaysian breakwater since 2008.

For sedimentation estimation, the meeting agreed to make a summation of sedimentation and erosion separately and the focus will be on the accumulated sedimentation at river mouth and within the Golok river main channel for the period from 2008 to 2012. Both sides will use the same method of calculation for the amount of sedimentation and erosion.

The meeting suggested that the Malaysian survey should indicate the breakwater structures and all the channel lines into the plan view of survey map and improve on the contour lines for clearer presentation.

For the legend on color interpretation, there are two intervals of depth (from 0 m. to -0.9 m.MSL and from -1.0 to -1.9 m.MSL) which have similar red colors. The meeting agreed to change to different colors for each interval.

## **2.2 Proposed Maintenance Dredging of Golok River Mouth**

The sand sedimentation has accumulated more even during high flow in Golok river. The river discharge seems not to be able to flush the sediment accumulated in river mouth due to sand sediment trapped in Malaysia coastline and across the tip of Malaysian breakwater to the Golok river mouth main channel.

Therefore, maintenance dredging may have to be carried out, However the meeting agreed that need for maintenance dredging be deferred until the confirmation from the joint hydraulic studies which will be completed next year.

## **2.3 Cableway Stations across Golok River**

From last JET meeting, it was agreed that mutual flow measurement and calibrations be carried out in a year with low, medium (normal) and high flow by monthly mutual flow measurement and calibration starting May 2012 to May 2013.

Both sides reported that at present the mutual flow measurement and calibrations have been carried out 6 times since May – October 2012.

The mutual calibrations of rating curve showed that;

- The water level datum of Malaysia is 20 centimeters higher than Thai side
- There will be three rating curves; Thai, Malaysia and common rating curve. For cable way station, common rating curve will be used but for each country usage basing on its own survey datum.
- The difference of river discharge of 6 mutual calibration varied from 4% - 29% while the mutual calibration in September, the difference is quite large due to error reading of water level in Malaysia side. Malaysia side will recheck these figures and make the necessary correction.
- The Golok river cross section which is plotted in the rating curve was much different in shape between both sides. Thai side used the cross section survey in 2010 while the cross section survey Malaysia side was probably much earlier than Thai side. The Malaysia side will check the period of cross section survey. The meeting agreed to survey and plot Golok river cross section at cable way station for every mutual flow measurement and calibration to observe the river cross section changes.
- The mutual flow measurement and calibration of rating curves will be carried out for one year to derive a common rating curve. After that each side would carry out flow measurement independently and if significant difference is found, both sides will discuss the need to do mutual flow measurement and calibration again.

The mutual calibrations of equipment

The Malaysian side proposed the schedule of mutual calibration of equipment. For mutual calibration of cable way and hoist, it will be scheduled on 30 November 2012 by DID, Malaysia. While the mutual calibration of current meters will be done at hydraulic laboratory of RID, Thailand.

#### **2.4 Progress on Real Time Monitoring System in the Golok River Basin and the Joint Website**

The Meeting agreed to use the URL <http://h2o.water.gov.my/golok/main.html> as the permanent URL for joint website which is linked to Thai tele-metering website URL:

<http://royal.rid.go.th/gis/golok>.

The Joint website should be linked to main page of the Departments of both countries. The website should be host by Water Resources Management and Hydrology Division, DID Malaysia, but the meeting agreed that the IT personnel of Thai side could join as co-web master in order to be able to edit or upload data in the website.

The contact persons of each side was proposed to include

- JET secretariat
- hydrologist and
- IT personnel.

	Contact Person	Division
<b>Malaysia</b>	Ms. Aisyah Sakina Ahmad	River Basin and Coastal Zone Management Division, DID Malaysia
	Ir. Hapida binti Ghazali	Water Resources Management and Hydrology Department of Irrigation and Drainage Malaysia
	IT personnel	(to be named later)
<b>Thailand</b>	Mr. Somchai Imyoo	Hydrology and Water Management Center for Southern Region, RID Thailand
	Ms.Chawee Wongprasittiporn	Office of Project Management, RID Thailand
	IT personnel	(to be named later)

The Meeting agreed that a Golok River Basin map with the location of rainfall, water level and stream flow stations of both sides should be published in the joint website.

The Thai side reported that Thai tele-metering website at present could display long period data (2 months) in addition to real time data and proposed to the Malaysia to improve the same manner for more useful data sharing. The meeting agreed to make table of 6 month data record for pre and post monsoon, starting now from pre monsoon October 2012. The long term data record could be shared in numeric table form / spreadsheet for downloading.

## **2.5 Rehabilitation of Transit Point B**

The Malaysian side reported to the meeting that the rehabilitation work at Transit Point B has been completed and the detail information is as follows;

### **(A) Contract details**

Contractor	: MS INDAH ENTERPRISE
Site possession date	: 8 March 2012
Expected completion date	: 25 July 2012
Contract period	: 20 weeks
Contract cost	: RM243,021.00 (Paid by DID Malaysia)

### **(B) Objectives**

- To overcome the problems of corrosion and exposure of steel bar
- To ensure that the structure of Transit Point B is safe, functional and stable for future use with extended durability

### **(C) Scope of works**

- Steel Pipe Pile for Tidal Gauge – Blasting/mechanical cleaning and protective coating to steel pipe pile
- Pile Caps
- Removal of concrete cover
- Replacing corroded reinforcement bars
- Rebuild concrete cover with appropriate repair material
- Coating to repaired concrete surfaces
- Bollards – Blasting/ mechanical cleaning and coating
- Fender – Replacement of existing fenders
- Painting – Repainting of concrete and concrete structure from short column and above (including tower).

The rehabilitation works of Transit Point B had been completed since July 2012. During the implementing, the Thai side had visited the project site during April 2012.

## **2.6 Joint Hydraulic Modeling Studies**

Both sides reported the progress of work as follows :

- Survey work of Thai side will be completed in November 2012 and handed

over to Malaysia side by mid of December 2012.

- Survey of Malaysia side will be completed by end of the year 2012 and will be handed over to Thai side on mid of January 2013
- Malaysia's Contract for study started in October 2012 while Thai side will start on January 2013
- The consultant representatives of both sides will be invited to give the presentations during the next JET meeting. As such, an extra day is necessary for this agenda.
  - o JET meeting
  - o JET technical meeting on the Joint Studies.
  - o JET adoption of minutes of meeting.
- Detail is shown in table below

Thai side presented the schedule of additional JET meetings to monitor the progress of joint studies related to the progress reports submit of Thai side's study and proposed the Malaysian side to prepare similar schedule of Malaysian study. A mutual schedule could be made for the purpose of monitoring and inspection of the joint studies.

	MALAYSIA	THAILAND
SURVEY WORKS	The started in September and complete set of reports and drawings shall be available by the end of Year 2012	The complete set of reports and drawings shall be available by the Nov 2012
JOINT STUDY	<p>A Consultant have been appointed to carry out the Joint Study.</p> <p><u>Contract Details:</u></p> <ul style="list-style-type: none"> <li>• Consultant : ANGKASA CONSULTING SERVICES S/B</li> <li>• Data sharing : mid of Dec 2012</li> <li>Commencement Date : 29 October 2012</li> <li>• Completion date : 28 October 2013</li> <li>• Contract period : 12 Months</li> <li>• Consultancy Fees : RM 829,675.00</li> </ul>	<p>A Consultant have been appointed to carry out the Joint Study.</p> <p><u>Contract Details:</u></p> <ul style="list-style-type: none"> <li>• Consultant : Thammasat University Research and Consultancy Institute</li> <li>• Data sharing : mid of Jan 2013</li> <li>• Commencement Date : 1 January 2013</li> <li>• Completion date : 30 December 2013</li> <li>• Contract period : 12 Months</li> <li>• Consultancy Fees : B 9,975,000.00</li> </ul>

## **2.7 Flood Forecasting and Warning System of the Golok River Basin**

The Malaysian side presented the trial attempt to estimate flood runoff from TANK Model based on rainfall stations in Malaysian side only and this led to poor calibration. As such rainfall stations within the whole Golok river basin are essential for flood forecasting for both sides.

There is only one rainfall station at Malaysian side which has tele-metering facility. Malaysia side proposed that to carry out real time manner, manual rainfall station should be upgraded to real time tele-metering stations while Thai side is currently installing tele-metering device to all rainfall stations on the Golok river basin in Thai side.

The meeting agreed that the network of rainfall and runoff/water level stations should be linked and shared from both sides for the benefit of flood forecasting in the whole Golok river basin.

The meeting also agreed that this agenda is quite technical one; therefore a separate meeting on this specific agenda should be carried out further.

## **AGENDA 3 : OTHER MATTERS**

### **3.1 Proposed Integrated River Basin Management (IRBM) plan for the Golok River**

The Malaysia side presented the IRBM concept and objective. The meeting agreed that this is a good principle and will discuss in detail in next JET meeting on the objectives which is applicable for Golok river basin, taking into consideration, the scope of cooperation as started in the existing MOU as well as the present functions of JET, JTWG and JSC.

### **3.2 Need for Secretariat Pre-Meeting**

The meeting agreed that the JET secretariat teams of both sides need a pre-meeting at least a day earlier before JET meeting to discuss and prepare all agendas which are now more technical details in order to save time of JET meeting.

### **3.3 Proposed date and venue for the 23<sup>rd</sup> JET meeting**

The meeting proposed the date and venue for the next JET meeting (23<sup>rd</sup> JET meeting) as follows:

Date: April / May 2013

Venue: to be discussed later

### **AGENDA 4 Matters to be referred to the JTWG / JSC Meeting**

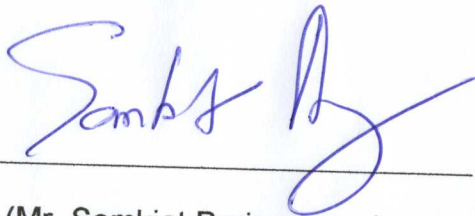
The meeting agreed to proposed the agenda for next JTWG and JSC meeting as follows;

#### Matters for Information

1. Report of monitoring and evaluation of Golok River Mouth
2. Proposed maintenance dredging of Golok River Mouth
3. Cableway station across the Golok River
4. Progress of real time monitoring system in the Golok River Basin and the joint website
5. Rehabilitation program of Transit Point B
6. Joint Hydraulic Modeling Studies
  - (i) Joint study on Coastal Flooding at Golok River Mouth
  - (ii) Joint Hydraulic Model on the Assessment of the Golok River Mouth Improvement along Coastal Areas.
- 7 Flood Forecasting and Warning System of the Golok River Basin

## **AGENDA 5: ADOPTION OF MINUTES OF THE MEETING**

The meeting agreed to adopt the minutes of meeting of the Twenty Second Meeting of Thailand – Malaysia Joint Evaluation Team on the Golok River Mouth Improvement Project.



---

(Mr. Somkiat Prajamwong)  
Co-Chairman  
Joint Evaluation Team, Thailand



---

(Dato' Ir. Lim Chow Hock)  
Co-Chairman  
Joint Evaluation Team, Malaysia

**Attendance List**  
**22<sup>nd</sup> Meeting of Thailand – Malaysia Joint Evaluation Team**  
**on the Golok River Mouth Improvement Project**  
7 – 8 November 2012  
Chiang Rai, Thailand

**THAI DELEGATES**

- |    |                             |   |
|----|-----------------------------|---|
| 1. | Mr. Somkiat Prajamwong      | Director<br>Office of Project Management<br>Royal Irrigation Department   |
| 2. | Mr. Prinya Kamolsin         | Expert on Irrigation<br>(Hydraulic Engineering)<br>Royal Irrigation Department  |
| 3. | Mr. Waemamu Waehama         | Director<br>Golok River Basin Operation and Maintenance<br>Project<br>Regional Irrigation Office 17<br>Royal Irrigation Department                  |
| 4. | Mr. Somchai Imyoo           | Director<br>Hydrology and Water Management Center<br>for Southern Region<br>Office of Hydrology and Water Management<br>Royal Irrigation Department |
| 5. | Mr. Attaporn Wonglimaswat   | Senior Surveyor<br>Survey and Engineering Bureau<br>Marine Department   |
| 6. | Ms. Chawee Wongprasittiporn | Civil Engineer, Professional Level<br>Office of Project Management<br>Royal Irrigation Department   |
| 7. | Mr. Attapan Diloksopon      | Civil Engineer, Professional Level<br>Office of Project Management<br>Royal Irrigation Department   |
| 8. | Mrs. Jittra Boonrod         | Foreign Relations Officer, Professional Level<br>Office of Project Management<br>Royal Irrigation Department  |

**Attendance List**  
**22<sup>nd</sup> Meeting of Thailand – Malaysia Joint Evaluation Team**  
**on the Golok River Mouth Improvement Project**  
 7 – 8 November 2012  
 Chiang Rai, Thailand

**SECRETARIAT TEAM**

- |    |                            |  |
|----|----------------------------|--|
| 1. | Ms. Thayida Siritreeratong | Chief of Foreign Activity Coordinating Branch<br>Office of Project Management<br>Royal Irrigation Department |
| 2. | Mr. Piriya Thumyago        | Foreign Relations Officer, Practitioner Level<br>Office of Project Management<br>Royal Irrigation Department |
| 3  | Ms. Phatchara Amphawanon   | Foreign Relations Officer, Practitioner Level<br>Office of Project Management<br>Royal Irrigation Department |

**MALAYSIAN DELEGATES**

- |    |                          |  |
|----|--------------------------|--|
| 1. | Dato' Ir. Lim Chow Hock  | Director<br>River Basin and Coastal Zone Management<br>Department of Irrigation and Drainage<br>Malaysia                     |
| 2. | Mr. Mat Rahim bin Ismail | Director<br>Department of Irrigation and Drainage<br>Kelantan  |
| 3. | Mr. Mohd Said bin Dikon  | Deputy Director<br>River Basin and Coastal Zone Management<br>Department of Irrigation and Drainage<br>Malaysia              |
| 4. | Ir Hapida Ghazali        | Senior Engineer<br>Water Resources and Hydrology Management<br>Division<br>Department of Irrigation and Drainage<br>Malaysia |
| 5. | Mdm. Norasimah Mat Nor   | Engineer<br>Department of Irrigation and Drainage<br>Malaysia  |
| 7. | Ms. Aisyah Sakina Ahmad  | Engineer<br>River Basin and Coastal Zone Management<br>Department of Irrigation and Drainage<br>Malaysia                     |

**Attendance List**  
**22<sup>nd</sup> Meeting of Thailand – Malaysia Joint Evaluation Team**  
**on the Golok River Mouth Improvement Project**  
7 – 8 November 2012  
Chiang Rai, Thailand

**IN ATTENDANCE**

- |    |                                 |  |
|----|---------------------------------|--|
| 1. | Mr. Chaiyong Jungarsachat       | Director<br>Regional Irrigation Office 2<br>Royal Irrigation Department  |
| 2. | Mr. Vitoon Thutitanapak         | Director<br>Operation and maintenance Division<br>Regional irrigation Office 2<br>Royal Irrigation Department  |
| 3. | Mr. Chatchai Boonlue            | Director<br>Foreign Financed Project Administration<br>Office of Project Management<br>Royal Irrigation Department   |
| 4. | Mr. Suwanwech Limthaweeagoon    | Chief of Operation and Maintenance<br>Golok River Basin Operation and<br>Maintenance Project<br>Regional Irrigation Office 17<br>Royal Irrigation Department |
| 5. | Ms. Chatchaya Chottanatiradetch | Policy and Plan Analysis Officer<br>Office of the Permanent Secretary for<br>Agricultural and Cooperatives<br>Ministry of Agriculture and Cooperatives       |

**ADOPTED AGENDA**

AGENDA 1: OPENING SESSIONS

AGENDA 2: MATTERS FOR CONSIDERATION

2.1 REPORT OF MONITORING AND EVALUATION OF GOLOK RIVER MOUTH

2.2 PROPOSED MAINTENANCE DREDGING OF GOLOK RIVER MOUTH

2.3 CABLEWAY STATION ACROSS THE GOLOK RIVER

2.4 PROGRESS OF REAL TIME MONITORING SYSTEM IN THE GOLOK RIVER BASIN AND THE JOINT WEBSITE

2.5 REHABILITATION PROGRAM OF TRANSIT POINT B

2.6 JOINT HYDRAULIC MODELING STUDIES:-

- JOINT STUDY ON COASTAL FLOODING AT GOLOK RIVER MOUTH
- JOINT HYDRAULIC MODEL ON THE ASSESSMENT OF THE GOLOK RIVER MOUTH IMPROVEMENT ALONG COASTAL AREAS

2.7 PROPOSED FLOOD FORECASTING AND WARNING SYSTEM OF THE GOLOK RIVER BASIN

AGENDA 3: OTHER MATTERS

3.1 INTEGRATED RIVER BASIN MANAGEMENT (IRBM)

3.2 NEED FOR SECRETARIAT PRE-MEETING

3.2 THE NEXT JET MEETING

AGENDA 4: MATTER TO BE REFERRED TO JTWG

AGENDA 5: ADOPTION OF MINUTES OF MEETING

**PRE-MONSOON SURVEY  
(OCTOBER 2012)**

## PRE-MONSOON SURVEY (OCTOBER 2012)

