



Department of Irrigation and  
Drainage

## Minutes of Meeting

# **The 26<sup>th</sup> Meeting of Thailand – Malaysia Joint Evaluation Team On Golok River Mouth Improvement Project**

1 – 2 December 2014  
Trat, Thailand

## **Minutes of Meeting**

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

Mr. Somkiat Prajamwong, the leader of the Thai Delegation, welcomed the Malaysian Delegation to the 26<sup>th</sup> Meeting of the Joint Evaluation Team (JET) on the Golok River Mouth Improvement Project on 1 - 2 December 2014 in Trat, Thailand.

Ir. Leong Tak Meng, 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 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 14-18 October 2014 was carried out by the Malaysian side. The survey plan is shown in **Appendix C**. It is found that sedimentation has accumulated at river mouth as usual phenomena, but lesser. The cross sections at Golok river mouth from section +325 m. to +450 m. (at tip of Malaysian breakwater) have been significantly shallower from 0.2 to 0.6 meters from the design level of -3.0 m. MSL. The river flow direction and the main deep channel still moved toward the Thai coastal side.

The maximum discharge of Golok River at Cableway (X.119A) as follows:

- During monsoon season (November 2013 to February 2014) was approximately 420 m<sup>3</sup>/s, and

- During non-monsoon season (March to October 2014) was approximately 99.69 m<sup>3</sup>/s.

The meeting agreed that the detailed analysis of the phenomena will be confirmed with the result of post monsoon survey 2015. The meeting agreed to continue monitoring survey and closely follow up the sand bypassing phenomena.

## 2.2 Cableway Station Across Golok River

### 2.2.1 Mutual Calibration of Rating Curves

The mutual gauging works has been carried out since 2013 till present. Both sides also carried out monthly measurements. Mutual measurement was carried out for 4 times in 2014. Details are as shown below;

#### Mutual measurement at cable way stations

Monsoon season	Non Monsoon season
<b>November 2013 – February 2014</b> <ol style="list-style-type: none"> <li>1. November 2013 *</li> <li>2. December 2013 *</li> <li>3. January 2014**</li> <li>4. February 2014**</li> </ol>	<b>March – October 2014</b> <ol style="list-style-type: none"> <li>5. March 2014**</li> <li>6. April 2014**</li> <li>7. May 2014**</li> <li>8. Jun 2014 (mutual)</li> <li>9. July 2014**</li> <li>10. Aug 2014 (mutual)</li> <li>11. September 2014 (mutual)</li> <li>12. October 2014**</li> </ol>
<b>November 2014 – February 2015</b> <ol style="list-style-type: none"> <li>13 November 2014 (mutual)</li> </ol>	

Note: \*Gauging by Thai side (flooded in Malaysia)

\*\* Individual gauging

In order to produce the same river discharge and common rating curves at the cable way stations in Golok river, there are activities to do as follows;

1. Transfer elevation reading for both stations to be the same by using the reference benchmark T11 Datum. Thai side will carry out survey to link T-11 datum to establish a TBM at the cable way station on Thai side. Malaysian side will use the same TBM as a reference (at present it is

roughly estimated that elevation at Malaysia station is 30 cm higher than Thai station). Thai side has produced the rating curve and cross section which is adjusted +30 cm higher to be the same as Malaysian elevation as shown in **Appendix D** and Malaysian side will compare the rating curve (including the cross section) produced by Thai side with their rating curve.

2. Both sides agreed to schedule the mutual measurement during monsoon and non-monsoon season and proposed focal point teams to cooperate on mutual gauging and share information of flood situation of both sides. List of teams are as follows:

Thai Side	Malaysian side
<ol style="list-style-type: none"> <li>1. Mr. Waemamu Waehama (waemamu_wae@hotmail.com)</li> <li>2. Mr. Somchai Imyoo (chai_imyoo@yahoo.co.th)</li> <li>3. Mr. Abdultoleb Hemhoh (dultoleb@gmail.com)</li> <li>4. Mr. Manob Hemnukul</li> </ol>	<ol style="list-style-type: none"> <li>1. Ir Hj Shahimi Sharif (shahimis@water.gov.my)</li> <li>2. Mr Zamri bin Uzni (zamriyie@gmail.com)</li> <li>3. Mr Hishamshury bin Ibrahim (hishamsury@water.gov.my)</li> <li>4. Mdm Fairus Ahmad (fairus@water.gov.my)</li> </ol>

### 2.2.2 The proposed river bank stabilization works

As JTWG and JSC have comment on river bank stabilization at cable way station. The meeting discussed that at present, by observation on site, there is no serious instability at the river bank. The meeting agreed that future monitoring of river bank stabilization will be done at same time as mutual discharge measurement. However, close monitoring by each side should be done at all time. If there is any significant sign of river bank instability, river bank protection work as suggested by JSC will be discussed.

## 2.3 Real Time Monitoring System in the Golok River Basin, the Joint Websites and Flood Forecasting, and Warning System for Golok River Basin

### Real time monitoring and the Joint website

At present, data have been shared on the joint website as follows;

- Three Thai stations (rainfall and water level\*) and
- Two Malaysia stations (rainfall\*, water level\* and discharge)

\*Real time measurement

Malaysian side at present had updated discharge data on website manually started in year 2012 and proposed Thai side to share discharge data by manual input as well. However for Thai side rating curve is available only at cableway X119A, Thai side could provide discharge update only one station.

From last meeting, it was agreed that both individual and mutual rating curves at cableway stations to be shared and uploaded on the Joint Website after completed datum clarification. However, if Malaysian side shares rating curve at Jenob, Thai side could read and share discharge from Waeng station as well.

The meeting agreed to input discharge data manually by daily basis on the joint website from now on excluding past data.

#### Flood Forecasting and Warning System

Malaysian side will establish three new rainfall telemetry stations at Kg Gemang, Air Lanas, Kg Merbau Agriculture Station at upstream Basin and expect to complete by mid of 2015. These additional hydrological data (new stations) are to be shared and uploaded in the Joint Website by March 2016.

Thai side has finished construction of 6 telemetering of rainfall stations in upstream basin and will discuss which stations to be shared on the joint website in future.

Location map of telemetering stations of rainfall in upstream basin is shown  
**Appendix E**

#### **A Maintenance Dredging of Golok River Mouth**

From the pre-monsoon survey 14-18 October 2014. The cross sections at Golok river mouth from ch+325 m. to +450 m. (at tip of Malaysian breakwater) have been shallower than design level about 0.2 to 0.6 meters. It was observed that the river mouth was partially blocked and the maximum sediment about 11.45% of design area is at ch+350. The cross section as shown in **Appendix F**.

There is unnecessary to carry out maintenance dredging at present according to the dredging criteria. The meeting agreed to maintain the two (2) dredging criteria proposed by both sides for the time being.

## **2.5 Joint Hydraulic Modeling Studies**

### Activities

Thai side reported that the budget for Feasibility and EIA study is proposed. Both sides agreed that the detail design of both side will be carried out same time after Thai side has completed EIA processes.

## **2.6 Protection Work at Transit Point B**

The Thai side has proposed two options of Transit Point B protection work in oval shape and hexagonal shape. The JTWG and JSC recommended JET to find out the suitable design for the protection work of Transit Point B. Thai side report that Thai side will propose budget for the Physical Model Study at their own cost and invite Malaysian side to incorporate in the Study.

The meeting agreed that physical model will enable both sides to determine the suitable option of protection works at Transit Point B.

## **2.7 Integrated River Basin Management (IRBM) Plan for Golok River**

The JSC agreed that JTWG and JET should work out in more detail of IRBM planning. In order to plan IRBM planning, JET and JTWG members and tasks shall be revised to cover with relevant tasks of IRBM.

As IRBM planning could cover wide range of aspects, therefore both sides will discuss, before next JET Meeting, in detail on common interests of IRBM objectives and scope of works.

## **AGENDA 3 : OTHER MATTERS**

### **3.1 Proposed date and venue for the 27<sup>th</sup> JET meeting**

The meeting proposed the date and venue for the next JET meeting (27<sup>th</sup> JET meeting) as follows:

Date: April / May 2015

Venue: Tioman island, Pahang

**AGENDA 3 : OTHER MATTERS****3.1 Proposed date and venue for the 27<sup>th</sup> JET meeting**

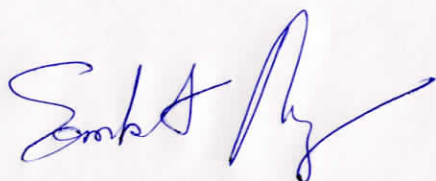
The meeting proposed the date and venue for the next JET meeting (27<sup>th</sup> JET meeting) as follows:

Date: April / May 2015

Venue: Tioman island, Pahang

**AGENDA 4 : ADOPTION OF MINUTES OF THE MEETING**

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



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(Dr. Somkiat Prajamwong)  
Co-chairman  
Joint Evaluation Team, Thailand



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(Ir. Leong Tak Meng)  
Co-Chairman  
Joint Evaluation Team, Malaysia

# Attendance List

## 26<sup>th</sup> Meeting of Thailand – Malaysia Joint Evaluation Team on the Golok River Mouth Improvement Project

1 – 2 December 2014

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### THAI DELEGATES

- |     |  |   |
|-----|--|---|
| 1.  | Dr. 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. Chumlap Tejasen                          | Chief of Project Planning Group 3<br>Office of Project Management<br>Royal Irrigation Department  |
| 6.  | Ms. Chawee Wongprasittiporn                  | Chief of Project Planning Group 2<br>Office of Project Management<br>Royal Irrigation Department  |
| 7.  | Mr. Attaporn Wonglimaswat                    | Senior Surveyor<br>Survey and Engineering Bureau<br>Marine Department   |
| 8.  | Mrs. Thayida Siritreeratong<br>Van Corstanje | Chief of Foreign Activity Coordinating Branch<br>Office of Project Management<br>Royal Irrigation Department  |
| 9.  | Mr. Attapan Diloksopon                       | Civil Engineer, Professional Level<br>Office of Project Management<br>Royal Irrigation Department   |
| 10. | Mrs. Jitra Boonrod                           | General Administration Officer, Professional Level<br>Office of Project Management<br>Royal Irrigation Department                                   |

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**MALAYSIAN DELEGATES**

- |    |                               |  |
|----|-------------------------------|--|
| 1. | Ir. Leong Tak Meng            | Director<br>Coastal Zone Management Division<br>Department of Irrigation and Drainage<br>Malaysia                            |
| 2. | Ir. Hj. Shahimi Bin Sharif    | Director<br>Department of Irrigation and Drainage<br>Kelantan  |
| 3. | Mr. Mohd Said bin Dikon       | Deputy Director<br>River Basin Management Division<br>Department of Irrigation and Drainage<br>Malaysia                      |
| 4. | Mr. Mohd Sor bin Othman       | Senior Engineer<br>Coastal Zone Management Division<br>Department of Irrigation and Drainage<br>Malaysia                     |
| 5. | Mrs. Fairus binti Ahmad       | Senior Engineer<br>Water Resources and Hydrology Management<br>Division<br>Department of Irrigation and Drainage<br>Malaysia |
| 6. | Ms. Aisyah Sakina binti Ahmad | Engineer<br>Coastal Zone Management Division<br>Department of Irrigation and Drainage<br>Malaysia                            |

**SECRETARIAT TEAM**

- |    |                       |  |
|----|-----------------------|--|
| 1. | Ms. Boonruen Srisa-ad | Foreign Relations Officer, Professional Level<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. Piyachanok Isro   | Foreign Relations Officer, Practitioner Level<br>Office of Project Management<br>Royal Irrigation Department |

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**IN ATTENDANCE**

- |    |                         |  |
|----|-------------------------|--|
| 1. | Mr. Silawat Singhamanee | Director<br>Trat Provincial Irrigation Office<br>Royal Irrigation Department   |
| 2. | Mr. Somkid Summa        | Chief, Engineering Branch<br>Trat Provincial Irrigation Office<br>Royal Irrigation Department  |
| 3. | Mr. Somsak Sutthiopas   | Chief, Water Management and Irrigation<br>System Improvement Branch<br>Trat Provincial Irrigation Office<br>Royal Irrigation Department                          |
| 4. | Mr. Abdultoleb Hemhoh   | Chief Operation and Maintenance Branch<br>Golok River Basin Operation and Maintenance<br>Project<br>Regional Irrigation Office 17<br>Royal Irrigation Department |
| 5. | Ms. Kanya Inkliang      | Senior Irrigation Engineer<br>Office of Research and Development<br>Royal Irrigation Department  |
| 6. | Mr. Jaruphong Kongjai   | Irrigation Engineer<br>Trat Provincial Irrigation Office<br>Royal Irrigation Department  |

**ADOPTED AGENDA**

AGENDA 1: OPENING SESSIONS

AGENDA 2: MATTERS FOR CONSIDERATION

2.1 REPORT OF MONITORING AND EVALUATION OF GOLOK RIVER MOUTH

2.2 CABLEWAY STATION ACROSS THE GOLOK RIVER

2.3 REAL TIME MONITORING SYSTEM IN THE GOLOK RIVER BASIN, THE JOINT WEBSITES AND FLOOD FORECASTING, AND WARNING SYSTEM FOR GOLOK RIVER BASIN

2.4 MAINTENANCE DREDGING OF GOLOK RIVER MOUTH

2.5 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

2.6 PROTECTION WORK AT TRANSIT POINT B

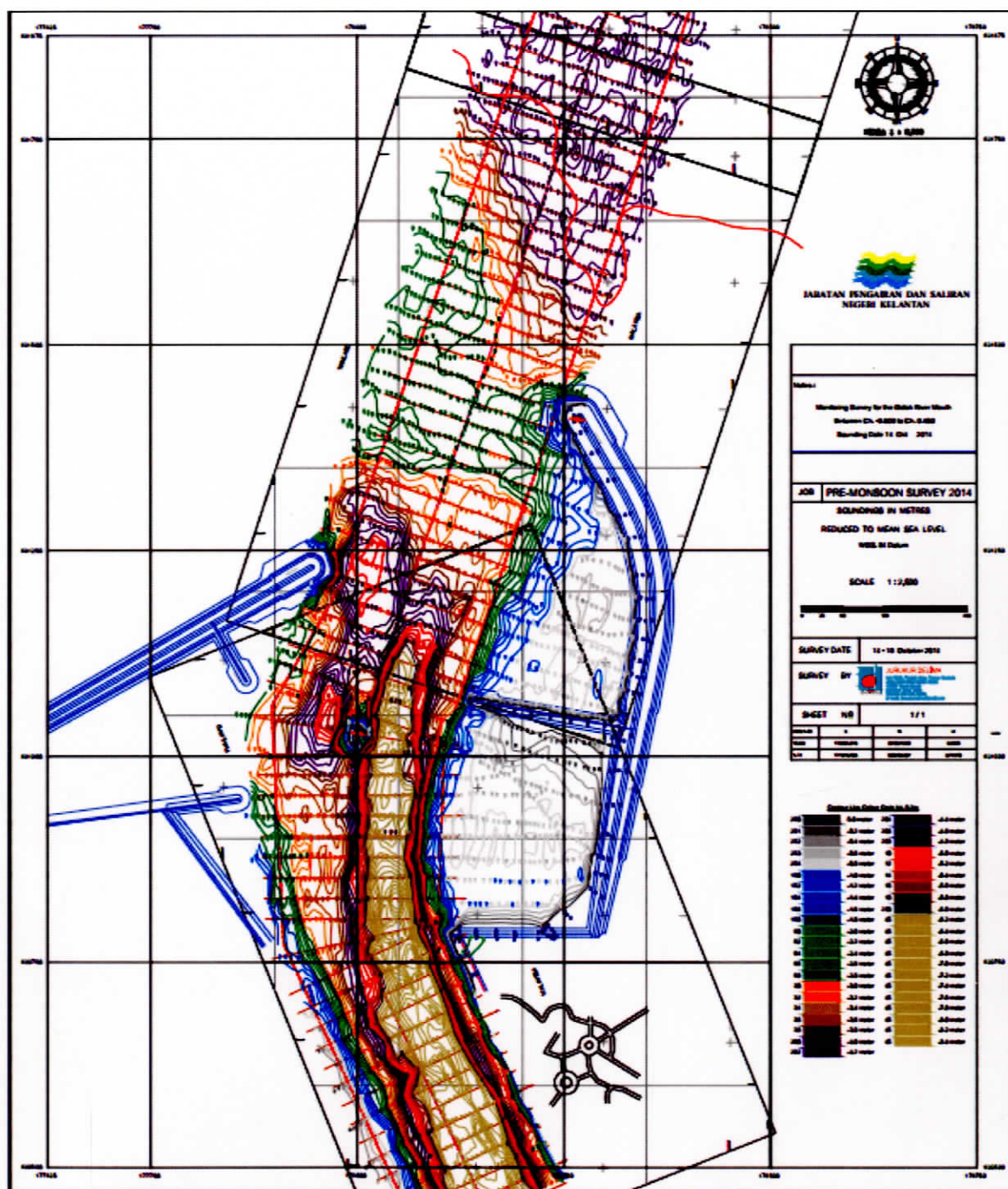
2.7 INTEGRATED RIVER BASIN MANAGEMENT (IRBM) PLAN FOR GOLOK RIVER BASIN

AGENDA 3: OTHER MATTERS

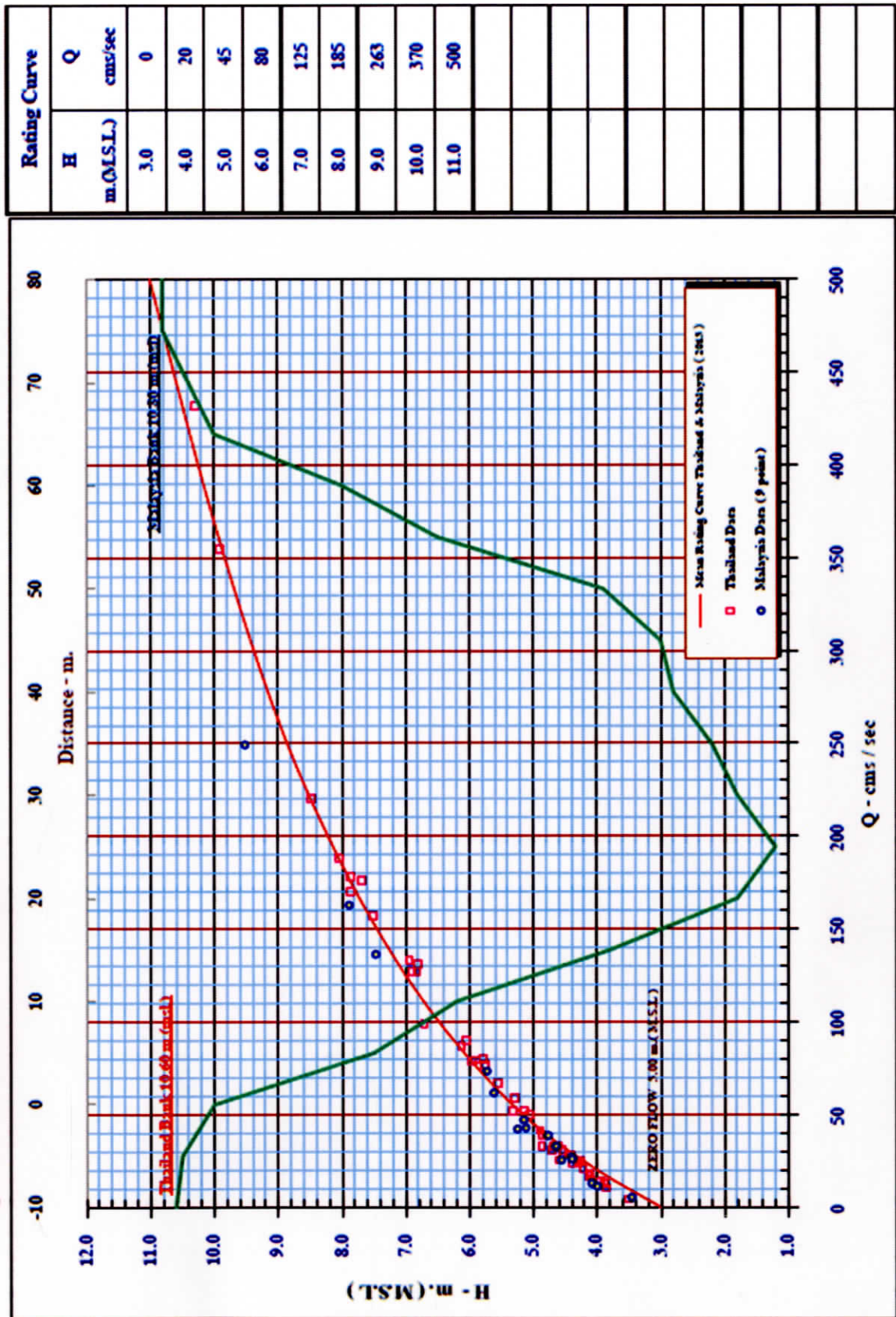
3.1 THE NEXT JET MEETING

AGENDA 4: ADOPTION OF MINUTES OF MEETING

## PRE-MONSOON SURVEY BY MALAYSIAN (14 OCTOBER 2014)



Graph show data and Mean Rating Curve Thailand &amp; Malaysia(2013) at Cableway Station , Sungai Kolok , Narathiwat



# Proposed Telemetering Station

