

## **REPORT OF THE MEETING**

### **FIRST PROJECT COORDINATION COMMITTEE MEETING UNDER THE COOPERATIVE MECHANISM ON THE STRAITS OF MALACCA AND SINGAPORE**

**HELD AT THE GRAND MILLENNIUM HOTEL, KUALA LUMPUR, MALAYSIA  
ON 29 MAY 2008**

#### **OPENING OF THE MEETING**

0.1. The first meeting of the Project Coordination Committee (PCC) Meeting under the Cooperative Mechanism on the Straits of Malacca and Singapore between the littoral States and user States was held on 29 May 2008 at The Grand Millennium Hotel, Kuala Lumpur Malaysia.

0.2. The meeting was attended by representatives from the three littoral States; Indonesia, Malaysia and Singapore; and representatives from Australia, People's Republic of China, Republic of Korea, Japan and United States of America. The meeting was also attended by observers from OCIMF and the International Maritime Organization (IMO). The list of participants is as per Annex 1.

0.3. During the opening of the meeting, the Chairman, Mr. Muhammad Razif Ahmad, expressed his appreciation and thanked the participants for attending the meeting. On behalf of the meeting, he conveyed sympathy and condolence to the victims of the recent earthquake in Sichuan, China and wish them a quick recovery.

0.4. Indonesia and Singapore, respectively thanked Malaysia for hosting the meeting and for making all the arrangements. They also thanked and welcomed other participants, particularly the Australia, Republic of Korea, China, Japan and United States of America (USA) to the PCC Meeting and wished for a positive and fruitful discussion on the implementation of the projects.

0.5. The International Maritime Organization (IMO) and OCIMF joined others in congratulating Malaysia for convening the inaugural 1<sup>st</sup> PCC Meeting and thanked the littoral States for inviting them.

## **1. ADOPTION OF THE AGENDA**

1.1. The Meeting considered the provisional agenda proposed in document PCC 1/1 and PCC 1/1/1 and adopted the agenda set out in Annex 2.

## **2. CO-OPERATIVE MECHANISM BETWEEN THE LITTORAL STATES AND USER STATES ON SAFETY OF NAVIGATION AND ENVIRONMENTAL PROTECTION IN THE STRAITS OF MALACCA AND SINGAPORE : PROJECT COORDINATION COMMITTEE.**

2.1. The Meeting noted the information provided by the Secretariat in document PCC 1/2 on the PCC under the Co-operative Mechanism between the littoral States and user States on safety of navigation and environmental protection in the Straits of Malacca and Singapore.

## **3. IMPLEMENTATION OF PROJECTS UNDER THE COOPERATIVE MECHANISM**

### **3.1. Report from Technical Working Group 1 for Project 1 & 2.**

3.1.1. The Meeting noted the report on Project 1 on Removal of Wrecks in the Traffic Separation Scheme (TSS) in the Straits of Malacca and Singapore and Project 2 on Cooperation and Capacity Building on Hazardous and Noxious Substance (HNS) Preparedness and Response in the Straits of Malacca and Singapore. In particular, the Meeting noted that there is still no sponsor for Project 1.

3.1.2. The Meeting welcomed the intention of USA to explore of the possibility to participate in Project 1. A prioritized list of wrecks will be presented to USA for consideration.

3.1.3. Australia, China and USA expressed their commitment to contribute to the implementation of the Project 2. The detail are as follows :

- (i) Australia will assist on the establishment of the HNS Databank and the methodology to develop a computer-based risk assessment;
- (ii) China will contribute in terms towards capacity building and proposed to organize a “Train the Trainers” course in September or later this year; and
- (iii) USA will contribute towards capacity building and training, as well as explore the possibility of contributing towards the formulation of the Joint SOP.

3.1.4. The report of the Technical Working Group 1 is attached in Annex 3.

### **3.2. Report from Technical Working Group 2 for Project 3 & 4.**

3.2.1. The Meeting noted the progress report on Project 3 on Demonstration Project of Class B Automatic Identification System (AIS) Transponder on Small Ships and Project 4 on Setting Up Tide, Current and Wind Measurement System For The Traffic Separation Scheme (TSS) in the Straits of Malacca and Singapore to enhance the safety of navigation and environmental protection presented by Singapore.

3.2.2. Australia stated that they were prepared to contribute to Project 3 in providing technical expertise.

3.2.3. Japan and Republic of Korea stated that they were prepared to contribute equipment to Project 3.

3.2.4. Singapore and Malaysia emphasized the importance of Indonesia's participation in the Project. Singapore refer to an earlier conversation with Indonesia about Indonesia's participation in the trials using Indonesian vessels and leveraging on AIS stations from Singapore and Malaysia to collate the data and that Indonesia had agreed in principle to participate in the Project.

3.2.5. China indicated their interest to contribute to Project 4 by providing technical expertise and on-site survey. The Meeting noted that questionnaire attached in the Annex 4 prepared by China in consultation with Singapore for this project was circulated to the littoral States.

3.2.6. The report of the Technical Working Group 2 is in Annex 4.

### **3.3. Report from Technical Working Group 3 for Project 5 & 6.**

3.3.1. The Meeting noted the progress report presented by Indonesia on Project 5 on the Replacement and maintenance of aids to navigation in the Straits of Malacca and Singapore & Project 6 on Replacement of Aids to Navigation destroyed or damaged by the tsunami in December 2004.

3.3.2. Japan and the Republic of Korea expressed their commitment to contribute to Project 5 to replace and maintain the aids to navigation in the Straits.

3.3.3. Indonesia presented report on the status on Project 6 and informed the meeting that China confirmed to undertake the entire of the Project 6 and implement it in phases. Further to that, issues such as duration of the implementation of the project and financial matters will be discussed bilaterally.

3.3.4. The report of the Technical Working Group 3 is in Annex 5.

#### **4. ANY OTHER BUSINESS**

4.1. The Meeting noted that there was no any other issue discuss.

#### **5. CONSIDERATION AND ADOPTION OF THE REPORT**

5.1. The Meeting considered and adopted the report of the meeting.

#### **6. CLOSING REMARKS**

6.1. The Chairman thanked all delegations for their positive contributions and cooperation for making the 1<sup>st</sup> PCC meeting a success. The positive indication and commitment from contributors, as such the Australia, China, Republic of Korea, Japan, USA and IMO to contribute to the identified projects demonstrated the success of the Cooperative Mechanism, and in particular the PCC.

6.2. The participants also thanked and expressed their appreciation to Malaysia for convening the Meeting, for the arrangements and the hospitality, and to Mr. Muhammad Razif Ahmad for chairing the meeting.

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#### **List of Annexes**

Annex 1	List of participants
Annex 2	Agenda
Annex 3	Report on Technical Working Group 1
Annex 4	Report on Technical Working Group 2
Annex 5	Report on Technical Working Group 3

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## **ANNEX 1**

### **LIST OF PARTICIPANTS**

#### **INDONESIA**

Mr. Bebeb A.K.N. Djundjuran, Deputy Director, Political Security and Territorial Affairs, Directorate General of Legal Affairs and International Treaties, Department of Foreign Affairs

Mr. Raymond Ivan Sianturi, Head of Aids to Navigation Equipment & Maintenance, Directorate General of Sea Transportation of the Indonesian Ministry of Transportation;

Lt. Col. Budi Purwanto, International Cooperation Section, Operation Staff, Indonesia Navigation Head Quarter.

Mr. Erik Mangajaya, Staff of Directorate of Political Security and Territorial Affairs, Directorate General of Legal Affairs and International Treaties, Department of Foreign Affairs.

Mr. Sahar Andika Putra, Transportation Attache, Embassy of The Republic of Indonesia.

#### **MALAYSIA**

Mr. Mustapha Zainuddin, Principal Assistant Secretary, Maritime Division, Ministry of Transportation, Malaysia

Mr. Muhammad Razif Ahmad, Director, Seamen Affairs and Port Division, Marine Department, Malaysia

Mr. Afian Yang Amri, Attorney General's Chambers, Malaysia

Lt. Norzaidi, National Hydrographic Center, Malaysia

Lt. Cmd. Wan Nazri, National Hydrographic Center, Malaysia

Mr. Ahmad Nordin Ibrahim, Principal Assistant Director, Safety of Navigation, Marine Department, Malaysia

Mr. Md. Badron Ismail, Principal Assistant Director, Safety of Navigation, Marine Department, Malaysia

Mr. Zulkurnain Ayub, Principal Assistant Director, Maritime Industrial Control Division, Marine Department, Malaysia

Mr. Mohd. Fairoz Rozali, Assistant Director, Maritime Industrial Control Division, Marine Department, Malaysia

Mr. Syamsul Aminuddin Samat, Assistant Director, Maritime Industrial Control Division, Marine Department, Malaysia

Mr. Mohd Nor Adzlan Ghazali, Assistant Director, Safety of Navigation, Marine Department, Malaysia

Mr. Syahrizan Jili, Assistant Director, Safety of Navigation, Marine Department, Malaysia

## **SINGAPORE**

Mr. Yee Cheok Hong, Director (Policy), Maritime and Port Authority of Singapore

Captain Kevin Wong Kar Weng, Ag Head / Controller, Port Operation Control Department, Maritime and Port Authority of Singapore

Ms. Florence Lim, Manager (International Department), Maritime and Port Authority of Singapore

Mr. Stephen Lim Soon Meng, Manager (Engineering), Maritime and Port Authority of Singapore

Mr. Anthony Tay, Electronics Engineer, Electronics and Communication Department, Maritime and Port Authority of Singapore

Mr. Lim Wee Kiat,, Maritime and Port Authority of Singapore

Mr. Lim Khok Cheng, Maritime and Port Authority of Singapore

## **AUSTRALIA**

Mr Trevor Gilbert, APASA

Ms Jillian Carson-Jackson,

## **CHINA**

Mr. Jin Shengli, Deputy Director, Department of Aids to Navigation and Hydrography, Maritime Safety Administration People's Republic of China.

Mr. Wang Xiaolong, Asian Department, Ministry of Foreign Affairs, People's Republic of China

Mr. Wang Zhiyun, Shanghai Maritime Safety Administration

Mr. Song Shoukui, Yantai Oil Spill Response Technical, China Maritime Safety Administration.

## **REPUBLIC OF KOREA**

Mr. Kwon Sang Dae, Attache for land, Transport and Maritime Affairs, Embassy of the Republic of Korea

## **JAPAN**

Mr. Yasuhiro Okanishi, Director, International Shipping Division, Ministry of Land, Infrastructure, Transport and Tourism, Japan

Mr. Fumio Kaneko, Managing Director, Malacca Strait Council

Mr. Ryohei Maeda, Ministry of Land, Infrastructure, Transport and Tourism, Japan

Mr. Murata, JAMS

Mr. Seiji Sasaki, Operations Manager, Malacca Strait Council

**UNITED STATES OF AMERICA**

Dr. John Manza, Asia-Pacific Advisor, International Affairs, U.S. Coast Guard

Mr. John M. Finkbeiner, First Secretary-Trade Officer, Economic Affairs, United States Embassy.

**INTERNATIONAL MARITIME ORGANIZATION (IMO)**

Mr. Hartmut Hesse, Senior Deputy Director, Maritime Safety Division

**OIL COMPANIES INTERNATIONAL MARINE FORUM (OCIMF)**

Captain Shaikh A. Rahim, Technical Adviser (Nautical)

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## **ANNEX 2**

### **1<sup>st</sup> Project Coordination Committee (PCC) under the Co-operative Mechanism On Enhancing Safety of Navigation and Environmental Protection in the Straits of Malacca and Singapore**

**Held at the Grand Millennium Hotel, Kuala Lumpur, Malaysia  
On 29 May 2008**

#### **AGENDA**

Opening remarks

1. Adoption of the agenda
2. Cooperative Mechanism between the littoral States and user States on Safety of navigation and environmental protection in the Straits of Malacca and Singapore
3. Implementation of projects under the Cooperative Mechanism
  - 3.1. Project 1 - Removal of wrecks in the Traffic Separation Scheme in the Straits of Malacca and Singapore
  - 3.2. Project 2 - Co-operation and capacity building on Hazardous and Noxious Substance (HNS) Preparedness and Response in the Straits of Malacca and Singapore
  - 3.3. Project 3 - Demonstration project of Class B Automatic Identification System (AIS) Transponder On Small Ships
  - 3.4. Project 4 - Setting up a tide, current and wind measurement system for the Straits of Malacca and Singapore to enhance navigation safety and marine environment protection.
  - 3.5. Project 5 - Replacement and maintenance of aids to navigation in the Malacca and Singapore Straits
  - 3.6. Project 6 - Replacement of aids to navigation damaged by the tsunami incident of 2004
4. Any other business
5. Consideration and adoption of the report

Closing of the Forum

## **ANNEX 3**

### **REPORT OF THE TECHNICAL WORKING GROUP 1 BY MALAYSIA**

#### **PROJECT 1 ON REMOVAL OF WRECKS IN THE TRAFFIC SEPARATION SCHEME IN THE STRAITS & PROJECT 2 ON CO-OPERATION AND CAPACITY BUILDING ON HAZARDOUS AND NOXIOUS SUBSTANCE (HNS) PREPAREDNESS AND RESPONSE IN THE STRAITS**

##### **Opening of the meeting**

1. The Chairman welcomed the participants of the meeting. The Technical Working Group (TWG) was attended by representatives from the three littoral States; Indonesia, Malaysia and Singapore; and representatives from Australia, People's Republic of China, and United States of America and observer from OCIMF.

##### **Background**

2. The Chairman provided a brief background of Project 1 and Project 2. He then proposed to the TWG to discuss on the Project 2 due to no sponsors or updated status on the Project 1.

3. The TWG agreed on the proposal from the Chairman to focus on the four components of the project as follows :

- 3.1 Establishment of a common HNS database and risk assessment model.
- 3.2 Formulation of Standard Operating Procedure (SOP) for Join HNS Spill Combat
- 3.3 HNS Response Centre
- 3.4 Capacity Building

##### **Development of Common HNS Database and Risk Assessment Model**

4. The TWG noted on the commitment from Australia on the technical expertise on the HNS Database in the Straits of Malacca and Singapore (the Straits). Further, Australia presented the overview of the HNS risk assessment model in Australia and also on the proposal of the development of HNS databank in the Straits.

5. The TWG noted on the proposal from Australia to focus on step basis presented as follows :

- 5.1. Stakeholder meeting
  - 5.2. HNS / Shipping data identification & collation
  - 5.3. Risk Assessment methodology
  - 5.4. Development of technical specification for a common HNS Database.
6. The TWG agreed on the Australia recommendation on commencing the project from items 1 and 2 as an initial stage followed by items 3 & 4 later simultaneously.
7. The TWG agreed on the following recommendation by Australia of the needs of data collection i.e. types, frequency, source and volume of cargo passing through the Straits while other related information on the characteristics and properties of chemical as well as location and area with higher risk on the HNS pollution on commencing the Task 1 & 2 from June onwards.

### **Formulation of SOP for Joint HNS Spill Combat**

8. The Chairman restated on the US offer during Pre-PCC in Manado, Indonesia to deliver the SOP for Joint HNS Spill Combat. USA will advise the littoral States through correspondence including the details of the SOP and time frame involved in the developing the SOP.

### **HNS Response Centre**

9. The TWG agreed that HNS Response Centre proposed by the littoral States will remain but the exact discuss will be dependent the need assessment to be conducted.

### **Capacity Building**

10. The TWG recognized on the necessity for conducting training at various levels, particularly on the awareness for the upper management, incorporating the result of the proposal joint up by Australia. The TWG agreed the training should be coordinated between China, USA and Australia.
11. China expressed their commitment to participate in this project by organizing awareness course on “Train for Trainer” collaboration with IMO and interested user States in September or later part of this year. China might consider covering all the costs incurred by the training course, including the expenses of the potential trainees from the littoral States.
12. USA agreed to finance up to US\$ 100,000 on HNS training to be conducted in fiscal year October 2008 – October 2009.

**Contact points**

13. Each members of the TWG was requested to submit the name, contact and e-mail address of the focal point for the project in order to facilitate the project implementation.

**Conclusion**

14. The TWG agreed that the project should tentatively commence Task 1 in June 2008.

15. It was agreed that Australia will provide technical expert in implementing the development of HNS databank and risk assessment.

**Closing Remarks**

16. The Chairman thanked all delegations for their positive contributions and cooperation for making the Project 2 a success.

## **ANNEX 4**

### **REPORT OF THE TECHNICAL WORKING GROUP 2 BY SINGAPORE**

#### **PROJECT 3 ON DEMONSTRATION PROJECT OF CLASS B AUTOMATIC IDENTIFICATION SYSTEM (AIS) TRANSPONDER ON SMALL SHIPS**

##### **Opening of the meeting**

1. The Chairman welcomed the participants of the meeting. The Technical Working Group (TWG) was attended by representatives from the three littoral States; Indonesia, Malaysia and Singapore; and representatives from Australia, China, and USA.

##### **Progress Update**

2. The Technical Working Group (TWG) noted that Project 3 was making good progress. The first phase of the project had been completed, which included the drafting of the project design and implementation plan.
3. The project design and implementation plan was endorsed by the TWG.

##### **Implementation of Phase 2 of the project**

4. The TWG noted that Phase 2 of the project would involve the following:
- 4.1. Upgrading of AIS Backend Equipment
  - 4.2. Installation of Class B transponders onboard the vessels
  - 4.3. Basic training of ships' crew on the operation of the transponders
5. The TWG noted that Singapore and Malaysia were planning to upgrade their AIS base stations and would soon be procuring the necessary equipment, such as the VDL Analyzer, to facilitate the operational trial.
6. The TWG noted that Indonesia might not have sufficient AIS base stations to provide enough coverage along SOMS, and co-ordination would be required among the three littoral States for implementation of the project.
7. Japan and Republic of Korea confirmed their sponsorship of 10 CSTDMA and 30 SOTDMA transponders for Project 3. The TWG sought clarification from Japan and Republic of Korea on the coverage of their sponsorship of the transponders respectively, i.e. whether it includes installation, warranty/maintenance and training. Japan indicated that including the installation cost might result in the reduction of the number of transponders they could provide. Japan and the Republic of Korea also informed that they would seek further clarification on the coverage of their sponsorship and would revert with more details at a later date.

8. The issue of the cost of installing the transponders onboard the vessels and the need for 20 additional CSTDMA-type transponders was discussed by the TWG. The IMO representative stated that there might be a possibility to provide support for the project from the IMO Trust Fund subject to approval and availability of fund which could be used to acquire the additional transponders and installation of the transponders, among other things.

9. The TWG agreed that some form of basic training would be required for the operation of the transponders. Japan and Korea said that they would clarify with their vendors whether operational guidelines would be provided along with the transponders. Australia informed that they have an existing e-learning training module available on the AMSA website, which could be used by littoral States for the training of the ships' crew.

### **Phases 3 and 4 of the project**

10. The TWG noted that there would be a need to establish a common test protocol for Phase 3 of the project, which is scheduled to commence in the last quarter of 2008.

11. The TWG agreed that Singapore would take the lead in co-ordinating the data analysis for the project, with the assistance of Australia.

12. Australia informed the TWG that they were currently conducting a trial involving AIS Class B transponders in the Australian waters and would be pleased to share the results with the littoral States and other contributing parties when ready.

**PROJECT 4 ON SETTING UP OF A TIDE, CURRENT AND WIND MEASUREMENT  
SYSTEM FOR THE STRAITS TO ENHANCE NAVIGATION SAFETY AND MARINE  
ENVIRONMENT PROTECTION.**

**Introduction**

1. Singapore and China gave a joint presentation on Project 4.

**Progress Update**

2. China updated the Technical Working Group (TWG) on its progress of the questionnaire to collate the information of the existing tide, wind and current monitoring stations, which the Littoral States would be contributing to the project. China also presented the proposed timeline for the Needs Assessment and Site Assessment Studies.
3. China suggested that after it has completed its desk-top Needs Assessment Study, a joint participation team from the Littoral States and other interested States and parties shall be formed to carry out the Site Assessment Study. Based on the site survey and desk top study, China will prepare a Needs Assessment Report which will be drafted and sent to the Littoral States for their consideration and endorsement.
4. The TWG went through and sought comments on the questionnaire.
5. Capt Shaikh Rahim of OCIMF requested the TWG to consider that information on swells at the monitoring stations be included in the questionnaire.
6. Dr John Manor of the USCG conveyed the keen interest of NOAA in participating in Project 3. The three littoral states agreed to explore the possibility of NOAA's participation and involve NOAA in future project discussions. The three littoral states would make initial contact with NOAA through Dr John Manor, who requested that the questionnaire be sent to him and he would relay it to NOAA. It was noted that NOAA would be interested to be involved in the site assessment survey and sponsor equipment for the project.
7. Malaysia presented a sample of the information from an existing AIS station in the Strait of Malacca which the WG agreed would be useful for the Project. Malaysia subsequently offered the use of 4 existing AIS base stations in the Malacca Strait to be integrated as part of the Project.
8. The Littoral States agreed with Capt. Hartmut of IMO comments that there should be close co-operation with the MEH's experts and its MEH project to avoid duplication of work and resources and ensure that both projects complement each other. Capt Hartmut informed that the MEH team wants to be involved in both the Needs Assessment and Site Assessment Studies. Singapore will co-ordinate closely with the MEH experts.

9. The proposed time-line was proposed and adopted at the meeting.

	<b>Activities</b>	<b>Duration</b>	<b>Start</b>	<b>End</b>	<b>Remarks</b>
1.	Distribution of Questionnaire		June		
2.	Received data from Littoral States	2-3 weeks		End of June	
3.	Desktop Needs Assessment Study	4 weeks		End of July	
4.	Distribute Study report to Littoral States for consideration	4 weeks	Beginning of Aug 08		
5.	Site Assessment Mission				3 <sup>rd</sup> quarter 08
6.	Final Needs Assessment Report submitted to Littoral States				4 <sup>th</sup> quarter 08
7.	Formation of Working Committee with Littoral States and interested States and parties				3 <sup>rd</sup> quarter 08
8.	Preliminary Design and Framework for implementation of the remainder of the project.				4 <sup>th</sup> quarter 08

10. The questionnaire was amended, adopted and circulated to the three littoral States and all participants at the WG. The questionnaire as in Appendix 1.



## **APPENDIX 1**

### **REPLY TO QUESTIONNAIRE FOR THE**

### **SETTING UP A TIDE, CURRENT AND WIND MEASUREMENT SYSTEM FOR THE STRAITS OF MALACCA AND SINGAPORE TO ENHANCE NAVIGATIONAL SAFETY AND MARINE ENVIRONMENT PROTECTION**

**29 May 2008**

#### **INFORMATION PREPARED BY:**

**Name:**

**Designation:**

**Country:**

**Tel:**

**Fax:**

**E-mail:**

**Date:**

**Please kindly feedback this QUESTIONNAIRE by the 20<sup>th</sup> June 2008 to:**

**Mr. Jin Shengli**

**Deputy Director of Aids to Navigation and Hydrography of China MSA.**

**Address: 11 JIANGUOMEN NEI AVENUE BEIJING 100736 P.R CHINA.**

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**PROJECT 4:**  
**SETTING UP A TIDE, CURRENT AND WIND MEASUREMENT SYSTEM FOR**  
**THE STRAITS OF MALACCA AND SINGAPORE TO ENHANCE NAVIGATIONAL**  
**SAFETY AND MARINE ENVIRONMENT PROTECTION**

QUESTIONNAIRE ON EXISTING TIDE, CURRENT AND WIND STATIONS

Q1. Do you have any existing (i) Tide stations, (ii) Current stations, (iii) Wind stations along the Traffic Separation Scheme (TSS) between One Fathom Bank and Horsburgh that can be contributed to the project.

Q2. If your answer to Q1 is **Yes**, please provide the (i) Locations in long/lat coordinates (ii) Type (i.e. seabed bottom mounted), (iii) Brand, model of sensors/gauges for each Tide, Current and Wind stations.

Q3. If your answer to Q1 is **Yes**, please provide the environmental conditions of each of the location(s) of the existing stations?

- a. Water Depth
- b. Maximum Tidal Range
- c. Minimum Tidal Range
- d. Tidal Current Type
- e. Max speed of current flow (m/s)
- f. Metrological condition eg. Monsoon, Typhoon, Earthquake
- g. Swell condition (if applicable)

Q4. If your answer to Q1 is **Yes**, what is the tidal time difference between the existing tide stations (if there are more than one existing tide stations)?

Q5. If your answer to Q1 is **Yes**, what is the format of the data from your exiting stations? What is the data recording rate? Is it similar to the following?

i.e. Year	Month	Date	Time (HH:MM:SS)	Tide level (m)
2007	11	02	12:10:00	1.803
2007	11	02	12:20:00	1.810

Q6. Do you have an existing shore station to receive the measured data from your existing stations in real time or pre-determined time interval? How are the data currently being received by the shore station and transmitted to the users (eg. VHF, GSM, etc)? What is the frequency of data transmission?

Q7. How are your existing sensors/gauges (Tide, Current and Wind) being mounted? eg. Current station: Is the sensor seabed or surface mounted?

Q8. What is your main function of setting up the Tides, Current and Wind Measurement system?

		Please indicate a “√” where applicable
(a)	For Navigation Safety	
(b)	For Marine Environment Protection	
(c)	For early Warning of Typhoon, Flood, Tsunami	
(d)	Others, please specify: _____ _____ _____	

Q9. Which kind/type of new Tidal measurement equipment would you prefer to use for the project?

		Please indicate a “√” where applicable
(a)	Float Type	
(b)	Radar Type	
(c)	Bubble Type	
(d)	Others, please specify: _____ _____ _____	

Q10. Which kind/type of new Current measurement equipment would you like to use for the project? Please specify.

Q11. Which kind/type of new Wind measurement equipment would you like to use for the project? Please specify.

Q12. Do you have any preference or suggestion for the location(s) of the new tide, current and wind stations within your territorial waters? If **Yes**, please provide the following information:-

- (i) Co-ordinates of the location(s) in Longitude and Latitude and indicated on a navigation chart (Scale 1: 25,000);
- (ii) Do the location(s) have any existing infrastructure (eg. Jetty) where the instruments for the new tide, current and wind stations can be installed?
- (iii) Do the location(s) have any existing tele-communications coverage (eg. GSM, GPRS, CDMA, or others)?

Q13. If your answer to Q12 is **Yes**, please provide the following information (**if available**):-

- i) What is the environmental condition of each of your proposed location(s)? i.e.
  - a. Water Depth
  - b. Maximum Tidal Range
  - c. Minimum Tidal Range
  - d. Tidal Current Type
  - e. Max speed of current flow (m/s)
  - f. Metrological condition eg. Monsoon, Typhoon, Earthquake
  - g. Swell condition
- (ii) Is the location(s) near or within a port, town, fishing village, etc. If yes, please indicate for each location.

Q14. Do you have a preferred location for the shore-based station (that collects the data from the wind, tide & current stations) that is to be located within your country?

**ANNEX 5**  
**REPORT OF THE TECHNICAL WORKING GROUP 3**  
**BY INDONESIA**

**PROJECT 5 ON REPLACEMENT AND MAINTENANCE OF AIDS TO NAVIGATION IN  
THE STRAITS OF MALACCA AND SINGAPORE**

**Opening of the meeting**

1. The Chairman welcomed the participants of the meeting. The Technical Working Group (TWG) was attended by representatives from the three littoral States; Indonesia, Malaysia and Singapore; and representatives from China and Japan.

**Progress Update**

2. The TWG discussed the implementation of Project 5 - Replacement and maintenance of aids to navigation in the Malacca and Singapore Straits and agreed on the following :
  - 2.1. Malaysia is ready to conduct their AtoN assessment survey which tentatively commence on 16 June 2008 – 23 July 2008 with assistance from MSC as third party expert. This will be followed by Indonesian AtoN assessment survey for further 38 days (expected to finish by end of August 2008).
  - 2.2. The TWG took note that Malaysia already appoint a Civil & Structural Consultant to assist in its survey and preparation of the report.
  - 2.3. The final report of the survey assessment of AtoN will be ready in December 2008. However, the interim progress report will be tabled during the next ANF Meeting in October 2008.
  - 2.4. These reports from the littoral states will be submitted to Indonesia for consolidation.
  - 2.5. Singapore will conduct their assessment surveys. The Malacca Straits Council would like to join the assessment survey as an observer.
3. The TWG was conducted in a friendly and cordial atmosphere. The Chairman of the TWG, thank the TWG members for its contribution and support to the Project 5.

**PROJECT 6 ON REPLACEMENT OF AIDS TO NAVIGATION DESTROYED OR  
DAMAGED BY THE TSUNAMI IN DECEMBER 2004**

**Progress Update**

1. The TWG also discussed on the Project 6 - Replacement of aids to navigation damaged by the tsunami incident of 2004 and took note on the following:
  - 1.1. China reaffirmed its commitment for implementing this Project in a step by step approach for reconstruction and preservation of the 7 lighthouses and beacons. The estimated cost is around USD\$6 million after conducted the site survey.
  - 1.2. China requested Indonesia to provide the final position of the new lighthouses or beacon to be reconstructed.
  - 1.3. China also requested for Indonesia to conduct foundation survey and data of the preliminary design for the 7 lighthouses and beacons.
2. Indonesia responded:
  - 2.1. Indonesia expresses its confident that the project could be completed in 36 months as originally proposed by Indonesia.
  - 2.2. Indonesia proposed that both sides explore means and ways in order to expedite the implementation of the project.
  - 2.3. Indonesia also proposed that the detail site survey to be conducted under the construction contract as one package.
3. The TWG took note the briefing of China's delegation on its commitment and efforts for implementing this Project including recent achievement at 3+1 meeting in Hangzhou, China. Some issues such as duration of the implementation of the project and the financial matters will be discussed further bilaterally.
4. The TWG was conducted in a friendly and cordial atmosphere. The Chairman of the TWG, thank the TWG members for its contribution and support to the Project 6.