



# ด่วนที่สุด บันทึกข้อความ

ส่วนราชการ สำนักบริหารทรัพยากรบุคคล ส่วนสรรหาและบรรจุแต่งตั้ง โทร. ๐ ๒๒๕๑ ๗๕๕๕

ที่ สบค ๒๓๓๐๖ วันที่ ๒๗ ธันวาคม ๒๕๖๐

เรื่อง รับสมัครงานตำแหน่งผู้เชี่ยวชาญระดับประเทศ (National Expert)

① เรียน ผู้อำนวยการสำนัก/กอง สลก. ผอ.กพร. และ ผอ.กตน.

ด้วยกรมทรัพยากรน้ำ ขอความอนุเคราะห์ประชาสัมพันธ์การรับสมัครงานตำแหน่งผู้เชี่ยวชาญระดับประเทศ (National Expert) เพื่อสนับสนุนการดำเนินการจัดทำรายงานสถานการณ์ลุ่มน้ำโขงตอนล่าง (State of the Basin Report SOB) จำนวน ๔ ด้าน ดังนี้

- |                                                 |               |
|-------------------------------------------------|---------------|
| ๑. ผู้เชี่ยวชาญด้านการเปลี่ยนแปลงสภาพภูมิอากาศ  | จำนวน ๑ อัตรา |
| ๒. ผู้เชี่ยวชาญด้านอุทกภัยและภัยแล้ง            | จำนวน ๑ อัตรา |
| ๓. ผู้เชี่ยวชาญด้านการกัดเซาะและพังทลายของตลิ่ง | จำนวน ๑ อัตรา |
| ๔. ผู้เชี่ยวชาญด้านการขนส่งทางน้ำ               | จำนวน ๑ อัตรา |

ผู้สนใจและประสงค์จะสมัครและมีคุณสมบัติตรงตามลักษณะงาน (Job Description) สามารถส่งใบสมัครพร้อมประวัติส่วนบุคคลและรูปถ่าย ได้ที่สำนักบริหารจัดการลุ่มน้ำโขง กรมทรัพยากรน้ำ เลขที่ ๑๘๐/๓ ถนนพระรามที่ ๖ ซอย ๓๔ แขวงสามเสนใน เขตพญาไท กรุงเทพมหานคร ๑๐๕๐๐ หรือทางจดหมายอิเล็กทรอนิกส์ [tnmc.t@dwr.mail.to.th](mailto:tnmc.t@dwr.mail.to.th) โดยสามารถดูรายละเอียดเพิ่มเติม ได้ที่เว็บไซต์ <http://division.dwr.go.th/TNMC/index.php> หัวข้อ "ข่าวประกาศรับสมัครงาน" ภายในวันที่ ๕ มกราคม ๒๕๖๑ หรือสอบถามรายละเอียดได้ที่เบอร์โทรศัพท์ ๐ ๒๒๗๑ ๖๐๐๐ ต่อ ๖๖๓๖

จึงเรียนมาเพื่อโปรดทราบ

(นางศิวพร ภมรประวัตติ)

ผชช.บค. รักษาการแทน ผส.บค.

②

เรียน ผอ.ส่วน๖, ผอช.ภาค

เพื่อโปรดทราบและแจ้งให้ศูนย์สืบเสาะ

(นายสัญญา แสงพุ่มพงษ์)

ผส.บอ. - 4 ส.ค. 2561

# ด่วนที่สุด

ที่ ทส ๐๖๓๐/๒๒๗๒



ลพด ๒๓๓๐๖

๙๗/๒๐๓๘๓/๖๐

ถึง กรมชลประทาน

กรมทรัพยากรน้ำขอส่งสำเนาหนังสือรับสมัครงานตำแหน่งผู้เชี่ยวชาญระดับประเทศ (National Expert) เพื่อสนับสนุนการดำเนินการจัดทำรายงานสถานการณ์ลุ่มน้ำโขงตอนล่าง (State of the Basin Report: SOB) จำนวน ๔ ด้าน ได้แก่

๑. ผู้เชี่ยวชาญด้านการเปลี่ยนแปลงสภาพภูมิอากาศ จำนวน ๑ ตำแหน่ง
๒. ผู้เชี่ยวชาญด้านอุทกภัยและภัยแล้ง จำนวน ๑ ตำแหน่ง
๓. ผู้เชี่ยวชาญด้านการกัดเซาะและพังทลายของตลิ่ง จำนวน ๑ ตำแหน่ง
๔. ผู้เชี่ยวชาญด้านการขนส่งทางน้ำ จำนวน ๑ ตำแหน่ง

รายละเอียดตามขอบเขตการปฏิบัติงาน (Terms of Reference: TOR) ที่แนบมาพร้อมนี้

ในการนี้ จึงขอความอนุเคราะห์ประชาสัมพันธ์ให้ผู้สนใจและมีคุณสมบัติตรงตามลักษณะงาน (Job Description) ส่งใบสมัครพร้อมประวัติส่วนบุคคลและรูปถ่ายมายังสำนักบริหารจัดการลุ่มน้ำโขง กรมทรัพยากรน้ำ ตามที่อยู่เลขที่ ๑๘๐/๓ ถนนพระรามที่ ๖ ซอย ๓๔ แขวงสามเสนใน เขตพญาไท กรุงเทพฯ ๑๐๔๐๐ หรือทางจดหมายอิเล็กทรอนิกส์ [tnmc.t@dwr.mail.go.th](mailto:tnmc.t@dwr.mail.go.th) โดยสามารถดูรายละเอียดเพิ่มเติม ได้จาก <http://division.dwr.go.th/TNMC/index.php> “ข่าวประกาศรับสมัครงาน” ซึ่งจะปิดรับสมัครในวันที่ ๕ มกราคม ๒๕๖๑ นี้



สำนักบริหารจัดการลุ่มน้ำโขง  
โทรศัพท์ ๐ ๒๒๗๑ ๖๐๐๐ ต่อ ๖๖๓๖  
โทรสาร ๐ ๒๒๘๘ ๖๖๐๕

เรียน ผ.ศ.ช. บ.ต.

ชื่อ นาม นิตยา

นาง นิตยา

(นางกมลพร เบ็ญจมาศ)

ผ.บ.บ.ค. ๒๘๓๖๐





# Mekong River Commission

P.O. Box 6101, 184 Fa Ngoum Road, Unit 18,  
Ban Sithane Neua, Sikhottabong District, Vientiane 01000, Lao PDR  
Telephone: (856-21) 263 263. Facsimile: (856-21) 263 264

## TERM OF REFERENCE

### 1. Consultancy Summary: Flood and drought data

<b>Title:</b>	National Consultant to collect Flood and Drought data in the Mekong basin to support the preparation of MRC State of Basin Report 2018
<b>Consultancy type:</b>	Individual Consultant (SSA)
<b>Division:</b>	Technical Support Division
<b>Duration:</b>	10 days during 15 December 2017 15 May 2018
<b>Duty station:</b>	Home-based with travelling to MRC Member Countries (MCs)
<b>Reporting to:</b>	Director of MRCS Technical Support Division (TD)
<b>Required deliverables for this consultancy:</b>	MRC State of Basin Report

### 2. Background

The Mekong River Commission (MRC) was established by the 1995 Agreement on Co-operation for the Sustainable Development of the Mekong River Basin, between the governments of Cambodia, Lao PDR, Thailand and Viet Nam. The role of the MRC is to coordinate and promote cooperation in all fields of sustainable development, utilization, management and conservation of the water and related resources of the Mekong River Basin.

The MRC Secretariat (MRCS) is the operational arm of the MRC. It provides technical and administrative services to the Joint Committee and the Council to achieve the MRC's mission.

The Environmental Management Division (ED), in cooperation with Planning Division (PD) and Technical Division (TD), is responsible for environment monitoring, assessment, planning and management to support basin planning management and development for sustainable development of the Mekong River.

*MRC State of Basin Report:* The MRC launched its first State of the Mekong Basin Report (SOBR) in June 2003. The second SOBR was published in 2010, which was built on the first SOBR of 2003.

The SOBR aimed at providing readers with an understanding of (i) the important role that the Mekong system plays in people who live in the basin and depend on its water and related resources; (ii) the present state of and trends in water related resources within the basin; (iii) the need to develop water-related resources in ways which are equitable and sustainable from an economic, social and environmental point of view; and (iv) the importance of planning and monitoring development on a basin-wide scale so that gains in one sector or one geographic area do not result in losses in others.

Per the agreement among the MRC Member Countries, the State of Basin Report will be updated every 5 years serving as an important reference for the cyclic updating of the MRC Basin Development Strategy (BDS) and preparation of the Strategic Plan (SP) as well as the planning cycles of the basin countries (i.e. NIP). With this principle, the 3rd State of Basin Report will need to be available in 2018 prior to updating the BDS, SP and NIP for the strategic period 2021-2025.

Following the decision of the MRC Joint Committee at its 43rd Meeting, the preparation of the 3<sup>rd</sup> SOBR has been started since late 2015 by the former MRC Environment Team with support and participation of all former MRC programmes/teams. Under the new structure of the MRC Secretariat, this exercise will be executed through overall coordination of the Environmental Management Division (ED) with collaborative support and participation of all other Divisions and Office of CEO. To date, the Draft SOB Report or Preparatory SOB Report has been completed by the MRCS ED and was consulted with the MRC Member Countries at its regional consultation workshop held in March 2017. Based on the results of national and regional consultations, the Draft SOB (v.2.2) will need to be improved and finalized by the end of December 2018, with additional collection of latest data and information, and expansion of the scope of the report to cover whole Mekong River Basin, including Upper Mekong Basin in Myanmar and China, for approval of the MRC Joint Committee.

### **3. Objective of the Consultancy**

The objective of this consultancy is to collect Flood and Drought data in the Mekong basin to support the preparation of MRC State of Basin Report 2018.

### **4. Key Expected Outputs**

National flood and drought report updated from 2010 to 2017.

### **5. Responsibilities and tasks:**

The National Data Collection Expert (NDCE) is required to undertake the following tasks with defined schedule from 15 November 2017 to 15 April 2018 for a maximum of 10 working days. The submission of the collected flood information and data to the Director of Technical support Division.



With technical guidance and coordination to be provided by the National Hydrology/Flood Expert (NHFE), the National TD Focal Point of the NMC, the Head of Flood Center and the FFE of the MRC TD, the NDCE will collect all relevant information and data including maps related to the flood events and impact of typhoon/tropical storm on LMB and Flood Areas during 2017 and past flood events if necessary; sources/references for any data/information/photograph will be clearly indicated with name and date (institution, person, newspaper, website...).

The following are the specific tasks:

*For flood data:*

- To identify sources where data & information related to the flood, flash flood events and impact of typhoon/tropical storm on flood, flash flood areas during 2017 that can be obtained from line agencies concerned, local authorities, specific institutions managing disasters, NGO's, newspaper, website and also based on the experience of earlier years, for example the NAFRs in 2006 to 2014;
- To collect existing data & information, regarding location of flash floods in the country and LMB in the period of occurrence including satellite images. That information must be located precisely on a map (Province, District, Village, and Watershed). Collect existing data and information, regarding the mechanism of flooding (overtopping/breaking dikes, levies), extent, depth and duration of flooding;
- To collect existing data & information, regarding damage to crops, land, houses, public infrastructure, embankments, dikes, roads etc. with estimate of the amount of the damage (including statistical information, of damage in socio-economic terms).
- To collect existing data & information regarding rescue operations and first aid requirements/services, on how authorities, disaster agencies, local, affected people responded to the floods, and collect information on the effectiveness or ineffectiveness of the response.
- To collect the flood preparedness plan and response from government at different levels (national, provincial, district, commune or village levels)
- To collect existing data & information on reconstruction efforts by individuals, groups, local population and authorities, NGO's and others.
- To collect existing photographs of the flood conditions, particularly regarding the "human face" of flooding. Agreement must be obtained for publishing the photographs, the ownership will be with the MRCS.
- To collect photographs in the Flood Report when necessary (copyright - agreement must be obtained for publishing the photographs, the ownership will be with the MRCS).
- To collect existing data & information related to human victims (dead and injured), classified in age and disaggregated gender and gender sensitivity, including particular reasons or conditions (optional and if data are available)

- To participate in the Technical Working Group Meeting(s) in order to discuss and finalize the result, if necessary.

*For Drought data:*

- To map out the locations and boundaries of drought which occurred during the assessment period from 2015-2017. The boundaries can be commune or district levels;
- To collect existing data & information on drought impacts during the assessment period from 2015-2017 including socio-economic, environment, and agriculture. The data can be statistical data mentioning duration, cost, and severity.
- To collect the drought preparedness and management plan and response from government at different levels (national, provincial, district, commune or village levels)
- To collect existing data & information on post disaster recovery efforts by individuals, groups, local population and authorities, NGO's and others.
- Write a summary report on the above outputs.
- To participate in the Technical Working Group Meeting(s) in order to discuss and finalize the result, if necessary.
- To duly perform other tasks as required and deemed necessary.

**Important Note:** Flood data and information collected must be made representative for "Country scale" and "LMB scale", which means that on "LMB scale" parts of the Member Country within the LMB are relevant only. All data and information should have "reference sources".

**6. Working principles and reporting line:**

The consultant will be working under the overall supervision of the Director of the Technical Support Division and in close and direct consultation and supervision with the Chief Hydrologist, Head of Flood Center, the Drought Technical Coordination Expert and the MRCS SOBR Core Team.

**7. Deliverables and timelines:**

A tentative schedule is provided below. The exact schedule will depend on the timing of the contracting with the successful consultant, but it is anticipated that the assignment will commence in 15 December 2017 until 15 May 2018.

Deliverables	Number of days	Deadline
Flood-related information and data in flooded locations in the Country and LMB.	1	15 May 2018
Maps and satellite images (if available) indicate the location of 2015 and 2016 flood(s) (for instance for Province, District, Commune, Village, Watershed), and periods of occurrence.	1	15 May 2018



A summary list of the documents and data indicating: document number, title/short description of the content, source of information and date of information.	1	15 May 2018
A USB collecting all documents and information mentioned above, that are existing in "soft copy".	1	15 May 2018
Photographs free of copyright and can be freely used by the MRCS.	1	15 May 2018
Maps of the locations and boundaries of drought which occurred during the assessment period from 2015-2017. The boundaries can be commune or district levels	1	15 May 2018
Existing data & information on drought impacts during the assessment period from 2015-2017 including socio-economic, environment, and agriculture. The data can be statistical data mentioning duration, cost, and severity. The data should also include impacts of drought on public health.	1	15 May 2018
Drought preparedness and management plan and response from government at different levels (national, provincial, district, commune or village levels)	1	15 May 2018
List and responsibilities of individuals, groups, authorities, NGO's and others who work on drought relief programmes.	1	15 May 2018
A summarize report on the above outputs	1	15 May 2018
<b>Grand total</b>	<b>10</b>	

### 8. Qualifications and Requirements:

The NDCE must have the following qualifications:

- The national data collection expert must have a university degree in a field of study closely related to hydrology and integrated water resources management;
- The national data collection expert must have a minimum of 5 years working experience in the field of integrated water resources management, irrigation and drainage and/or disaster/flood management and mitigation;
- The national data collection expert must have been working with modern technology for collection, processing and presentation of data and information; he/she must have general knowledge and experience with remote sensing imaging, satellite imaging, GIS mapping and experience with writing general reports;
- The national data collection expert must have good general understanding of meteorological-hydrological processes, hydrological and hydraulic processes, topographic conditions;

- The national data collection expert must have some understanding of the needs for hydrologic and hydraulic data collection, and warning processes to reduce the vulnerability of the communities living in the LMB;
- Demonstrated ability to write technical reports which can be readily understood by decision makers and the public;
- Familiarity with the Lower Mekong River Basin, the Mekong River Commission and the MRC stakeholders would be beneficial;
- Excellent verbal communication ability, including ability to make positive and insightful contributions to consultation workshops and inspire learning motivation amongst stakeholders;
- Experiences in mapping and GIS software as a need;
- Strong work ethics, including commitment, responsibility, team spirit, and timely delivery; and
- Strong inter-personal and communication skills. Fluency in written and spoken English.
- Great advantage is for those who provided similar service in the past.

**9. Condition of payment**

The Consultant will be required to enter in a contract with the MRC Secretariat as per the terms and conditions of the contract document and the first payment of 20% of the total budget will be made upon signing of the Contract.

The following payments will be based on time recordings in accordance with MRC procedures, the completion of the deliverables (see Section 7), and the invoice submitted to the MRCS.

**10. Intellectual property rights**

Intellectual property rights - IPR: Information, data, database, knowledge resources in the forms of briefings, reports, proceedings, articles, essays, etc. issued by and for the MRCS will be the MRCS property. Any utility, announcement and disclosure that are without MRCS highest levels of authority' permission is considered illegal and will be charged by relevant local and international legal procedures.

**10. Signature Block**

<p><b>MRC Secretariat</b></p> <p>Division: Technical Support Division</p>	
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Name of Director: Bounlap Phethany Signature:	Date:
Division: Environmental Management Division Name of Director: Dr. Tien Hong Truong Signature:	Date:
<b>Consultant</b> Name of consultant: Signature:	Date:



# Mekong River Commission

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Ban Sithane Neua, Sikhottabong District, Vientiane 01000, Lao PDR  
Telephone: (856-21) 263 263. Facsimile: (856-21) 263 264

## TERM OF REFERENCE

### 1. Consultancy Summary:

<b>Title:</b>	National Consultant to collect secondary data on Economic value of mainstream navigation in the Mekong basin to support the preparation of MRC State of Basin Report 2018
<b>Consultancy type:</b>	Individual Consultant (SSA)
<b>Division:</b>	Technical Support Division
<b>Duration:</b>	5 days during 15 December 2017 15 May 2018
<b>Duty station:</b>	Home-based with travelling to MRC Member Countries (MCs)
<b>Reporting to:</b>	Director of MRCS Technical Support Division (TD)
<b>Required deliverables for this consultancy:</b>	(1) Yearly economic return on navigation on the Mekong river (2) Number of navigable days of the Mekong river section in your respective country

### 2. Background

The Mekong River Commission (MRC) was established by the 1995 Agreement on Co-operation for the Sustainable Development of the Mekong River Basin, between the governments of Cambodia, Lao PDR, Thailand and Viet Nam. The role of the MRC is to coordinate and promote cooperation in all fields of sustainable development, utilization, management and conservation of the water and related resources of the Mekong River Basin.

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The Environmental Management Division (ED), in cooperation with Planning Division (PD) and Technical Division (TD), is responsible for environment monitoring, assessment, planning and management to support basin planning management and development for



sustainable development of the Mekong River.

***MRC State of Basin Report:*** The MRC launched its first State of the Mekong Basin Report (SOBR) in June 2003. The second SOBR was published in 2010, which was built on the first SOBR of 2003.

The SOBR aimed at providing readers with an understanding of (i) the important role that the Mekong system plays in people who live in the basin and depend on its water and related resources; (ii) the present state of and trends in water related resources within the basin; (iii) the need to develop water-related resources in ways which are equitable and sustainable from an economic, social and environmental point of view; and (iv) the importance of planning and monitoring development on a basin-wide scale so that gains in one sector or one geographic area do not result in losses in others.

Per the agreement among the MRC Member Countries, the State of Basin Report will be updated every 5 years serving as an important reference for the cyclic updating of the MRC Basin Development Strategy (BDS) and preparation of the Strategic Plan (SP) as well as the planning cycles of the basin countries (i.e. NIP). With this principle, the 3rd State of Basin Report will need to be available in 2018 prior to updating the BDS, SP and NIP for the strategic period 2021-2025.

Following the decision of the MRC Joint Committee at its 43rd Meeting, the preparation of the 3<sup>rd</sup> SOBR has been started since late 2015 by the former MRC Environment Team with support and participation of all former MRC programmes/teams. Under the new structure of the MRC Secretariat, this exercise will be executed through overall coordination of the Environmental Management Division (ED) with collaborative support and participation of all other Divisions and Office of CEO. To date, the Draft SOB Report or Preparatory SOB Report has been completed by the MRCS ED and was consulted with the MRC Member Countries at its regional consultation workshop held in March 2017. Based on the results of national and regional consultations, the Draft SOB (v.2.2) will need to be improved and finalized by the end of December 2018, with additional collection of latest data and information, and expansion of the scope of the report to cover whole Mekong River Basin, including Upper Mekong Basin in Myanmar and China, for approval of the MRC Joint Committee.

### **3. Objective of the Consultancy**

The objective of this consultancy is to collect secondary data on Economic value of mainstream navigation in the Mekong basin to support the preparation of MRC State of Basin Report 2018.

### **4. Key Expected Outputs**

The following outputs of this consultancy are expected:

- (1) Yearly economic return on navigation on the Mekong river for the last 10 years or at

least from 2010 onward; and

2) Number of navigable days of the Mekong river section in your respective country for the last 10 years or at least from 2010 onward

#### 5. Responsibilities and tasks:

- Provide yearly economic return on navigation on the Mekong river for the last 10 years or at least from 2010 onward
- Provide the number of navigable days of the Mekong river section in your respective country for the last 10 years or at least from 2010 onward
- Support the international consultant and MRCS SOBR Core Team during the process of the preparation of MRC State of Basin Report 2018 and to review the current draft MRC Indicator Framework, when needed.
- Undertake other relevant tasks as required by the International Consultant and the MRCS SOBR Core Team.

#### 6. Working principles and reporting line:

The consultant will be working under the overall supervision of the Director of the Technical Support Division and in close and direct consultation and supervision with the Chief Hydrologist, Head of Flood Center and the MRCS SOBR Core Team.

#### 7. Deliverables and timelines:

A tentative schedule is provided below. The exact schedule will depend on the timing of the contracting with the successful consultant, but it is anticipated that the assignment will commence in 15 December 2017 until 15 May 2018

No.	Task	Deliverables	No. days	Schedule
1.	Provide yearly economic return on navigation on the Mekong river (2011-2015/2016)	yearly economic return on navigation on the Mekong river for the last 10 years or at least from 2010 onward	2	January 2018
2.	Provide the number of navigable days of the Mekong river section in your respective country (2011-2015/2016)	Number of navigable days of the Mekong river sections in your respective country for the last 10 years or at least from 2010 onward	3	January 2018
	<b>Grand total</b>		<b>5</b>	



## 8. Qualifications and Requirements:

- Master degree in Business Engineering and/or Economics, specialisation in waterborne transport;
- Ten years of experience in the waterborne transport development and management sector;
- Demonstrated ability to collect secondary data and write technical reports which can be readily understood by decision makers and the public;
- Familiarity with the Lower Mekong River Basin, the Mekong River Commission and the MRC stakeholders would be beneficial;
- Excellent verbal communication ability, including ability to make positive and insightful contributions to consultation workshops and inspire learning motivation amongst stakeholders;
- Strong work ethics, including commitment, responsibility, team spirit, and timely delivery; and
- Fluency in written and spoken English.

## 9. Condition of payment

The Consultant will be required to enter in a contract with the MRC Secretariat as per the terms and conditions of the contract document and the first payment of 20% of the total budget will be made upon signing of the Contract.

The final payment will be done after the completion of the deliverables (see Section 7), and the invoice submitted to the MRCS.

## 10. Intellectual property rights

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## 11. Signature Block

<b>MRC Secretariat</b> Division: Technical Support Division Name of Director: Bounlap Phethany Signature:	<b>Date:</b>
--------------------------------------------------------------------------------------------------------------------	--------------

Division: Environmental Management Division Name of Director: Dr. Tien Hong Truong Signature:	Date:
<b>Consultant</b> Name of consultant: Signature:	Date:



# Mekong River Commission

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Ban Sithane Neua, Sikhottabong District, Vientiane 01000, Lao PDR  
Telephone: (856-21) 263 263. Facsimile: (856-21) 263 264

## TERM OF REFERENCE

### 1. Consultancy Summary: River bank erosion, river channel condition and sediment transport, sand mining

<b>Title:</b>	National Consultant to collect data relating to river bank erosion, river channel condition and sediment transport, sand mining to support the preparation of MRC State of Basin Report 2018
<b>Consultancy type:</b>	Individual Consultant (SSA)
<b>Division:</b>	Technical Support Division
<b>Duration:</b>	10 days from 15 December 2017 to 15 May 2018
<b>Duty station:</b>	Home-based with travelling to MRC Member Countries (MCs)
<b>Reporting to:</b>	Director of MRCS Technical Support Division (TD)
<b>Required deliverables for this consultancy:</b>	(1) Data relating to river bank erosion, river channel condition and sediment transport, sand mining and (2) Technical Report of river bank erosion, river channel condition, sediment transport, and sand mining.

### 2. Background

The Mekong River Commission (MRC) was established by the 1995 Agreement on Co-operation for the Sustainable Development of the Mekong River Basin, between the governments of Cambodia, Lao PDR, Thailand and Viet Nam. The role of the MRC is to coordinate and promote cooperation in all fields of sustainable development, utilization, management and conservation of the water and related resources of the Mekong River Basin.

The MRC Secretariat (MRCS) is the operational arm of the MRC. It provides technical and administrative services to the Joint Committee and the Council to achieve the MRC's mission.

The Environmental Management Division (ED), in cooperation with Planning Division (PD) and Technical Division (TD), is responsible for environment monitoring, assessment, planning and management to support basin planning management and development for sustainable development of the Mekong River.

*MRC State of Basin Report:* The MRC launched its first State of the Mekong Basin Report



(SOBR) in June 2003. The second SOBR was published in 2010, which was built on the first SOBR of 2003.

The SOBR aimed at providing readers with an understanding of (i) the important role that the Mekong system plays in people who live in the basin and depend on its water and related resources; (ii) the present state of and trends in water related resources within the basin; (iii) the need to develop water-related resources in ways which are equitable and sustainable from an economic, social and environmental point of view; and (iv) the importance of planning and monitoring development on a basin-wide scale so that gains in one sector or one geographic area do not result in losses in others.

Per the agreement among the MRC Member Countries, the State of Basin Report will be updated every 5 years serving as an important reference for the cyclic updating of the MRC Basin Development Strategy (BDS) and preparation of the Strategic Plan (SP) as well as the planning cycles of the basin countries (i.e. NIP). With this principle, the 3rd State of Basin Report will need to be available in 2018 prior to updating the BDS, SP and NIP for the strategic period 2021-2025.

Following the decision of the MRC Joint Committee at its 43rd Meeting, the preparation of the 3<sup>rd</sup> SOBR has been started since late 2015 by the former MRC Environment Team with support and participation of all former MRC programmes/teams. Under the new structure of the MRC Secretariat, this exercise will be executed through overall coordination of the Environmental Management Division (ED) with collaborative support and participation of all other Divisions and Office of CEO. To date, the Draft SOB Report or Preparatory SOB Report has been completed by the MRCS ED and was consulted with the MRC Member Countries at its regional consultation workshop held in March 2017. Based on the results of national and regional consultations, the Draft SOB (v.2.2) will need to be improved and finalized by the end of December 2018, with additional collection of latest data and information, and expansion of the scope of the report to cover whole Mekong River Basin, including Upper Mekong Basin in Myanmar and China, for approval of the MRC Joint Committee.

### **3. Objective of the Consultancy**

The objective of this consultancy is to collect data of river bank erosion, river channel condition and sediment transport, sand mining to support the preparation of MRC State of Basin Report 2018.

### **4. Key Expected Outputs**

The two following outputs of this consultancy are expected:

- (1) Data relating to river bank erosion, river channel condition and sediment transport, sand mining for a period of available data for the last 10 years or at least from 2010 onward; and
- (2) Technical Report of river bank erosion, river channel condition and sediment transport, sand mining.

### **5. Responsibilities and tasks:**

The following are responsibility and tasks of the National Consultant:

- Work with assigned specialists and officers from Technical Support Division and Environmental Management Division, and national consultants to identify additional data and information needs, including tables, figures, and maps, for the preparation of the mentioned data;
- Collect the relevant data and check quality of the collected data and apply correction the data wherever applicable;
- Work with ED's specialists and officers, and national consultants to assemble all required data sets and information for the preparation of SOBR 2018;
- Perform analysis of river bank erosion, river channel condition and sediment transport, sand mining for available data with guidance from assigned specialists and officers from Technical Support Division;
- Prepare, revise and finalize the draft report on river bank erosion, river channel condition and sediment transport, sand mining;
- Contribute to the national consultations on the second draft SOBR 2018 in the MRC MCs if required; and
- Contribute to the regional consultation workshop on the 3<sup>rd</sup> draft of the SOBR 2018 if required.

**6. Working principles and reporting line:**

The National Consultant will be working under the overall supervision of the Director of the Technical Support Division and in close and direct consultation and supervision with the Chief Hydrologist, assigned specialists and the MRCS SOBR Core Team.

**7. Deliverables and timelines:**

A tentative schedule is provided below. The exact schedule will depend on the timing of the contracting with the successful consultant, but it is anticipated that the assignment will commence in 15 December 2017 until 15 May 2018.

No.	Task	Deliverables	No. days	Schedule
1.	a. Work with assigned specialists and officers from Technical Support Division and Environmental Management Division, and national consultants to identify additional data and information needs, including tables, figures, and maps, for the preparation of the mentioned data b. Collect the relevant data and check quality of the collected data and apply correction the data wherever applicable c. Work with ED's specialists and officers, and national consultants to assemble all required data sets and	Data relating to river bank erosion, river channel condition and sediment transport, sand mining a period of available data last 10 years or at least from 2010 onward	5	January 2018

	information for the preparation of SOBR 2018			
2.	<p>a. Perform analysis of river bank erosion, river channel condition and sediment transport, sand mining for available data with guidance from assigned specialists and officers from Technical Support Division</p> <p>b. Prepare, revise and finalize the draft report on river bank erosion, river channel condition and sediment transport, sand mining</p> <p>c. Contribute to the national consultations on the second draft SOBR 2018 in the MRC MCs if required</p> <p>d. Contribute to the regional consultation workshop on the 3rd draft of the SOBR 2018 if required</p>	Technical Report of river bank erosion, river channel condition and sediment transport, sand mining	5	February 2018
	<b>Grand total</b>		<b>10</b>	

#### 8. Qualifications and Requirements:

- Advanced degree in sediment transport, river morphology, hydrology and water resources management and development or water quality or a related discipline;
- At least 10 years of working experience and knowledge on sediment transport, river morphology, hydrology, water resources management and development, or water quality;
- Strong knowledge and experience in preparation of river basin assessment reports or state of the basin reports;
- Demonstrated ability to write technical reports which can be readily understood by decision makers and the public;
- Familiarity with the Lower Mekong River Basin, the Mekong River Commission and the MRC stakeholders would be beneficial;
- Excellent verbal communication ability, including ability to make positive and insightful contributions to consultation workshops and inspire learning motivation amongst stakeholders;
- Strong work ethics, including commitment, responsibility, team spirit, and timely delivery; and
- Fluency in written and spoken English.

#### 9. Condition of payment

The Consultant will be required to enter in a contract with the MRC Secretariat as per the terms and conditions of the contract document and the first payment of 20% of the total budget will be made upon signing of the Contract.

The following payments will be based on time recordings in accordance with MRC procedures, the completion of the deliverables (see Section 7), and the invoice submitted to the MRCS.



#### 10. Intellectual property rights

Intellectual property rights - IPR: Information, data, database, knowledge resources in the forms of briefings, reports, proceedings, articles, essays, etc. issued by and for the MRCS will be the MRCS property. Any utility, announcement and disclosure that are without MRCS highest levels of authority' permission is considered illegal and will be charged by relevant local and international legal procedures.

#### 11. Signature Block

<b>MRC Secretariat</b> Division: Technical Support Division Name of Director: Bounlap Phethany Signature:	<b>Date:</b>
Division: Environmental Management Division Name of Director: Dr. Tien Hong Truong Signature:	<b>Date:</b>
<b>Consultant</b> Name of consultant: Signature:	<b>Date:</b>



# Mekong River Commission

P.O. Box 6101, 184 Fa Ngoum Road, Unit 18,  
Ban Sithane Neua, Sikhottabong District, Vientiane 01000, Lao PDR  
Telephone: (856-21) 263 263, Facsimile: (856-21) 263 264

## TERM OF REFERENCE

### 1. Consultancy Summary: Climate change (greenhouse gas, extreme events, temperature, rainfall)

<b>Title:</b>	National Consultant to collect secondary data relating to climate change (greenhouse gas, extreme events, temperature, rainfall) to support the preparation of MRC State of Basin Report 2018
<b>Consultancy type:</b>	Individual Consultant (SSA)
<b>Division:</b>	Technical Support Division
<b>Duration:</b>	10 days from 15 December 2017 to 15 May 2018
<b>Duty station:</b>	Home-based with travelling to MRC Member Countries (MCs)
<b>Reporting to:</b>	Director of MRCS Technical Support Division (TD)
<b>Required deliverables for this consultancy:</b>	(1) Data relating to climate change (greenhouse gas, extreme events, temperature, rainfall) and (2) Technical Report of climate change status and trends (2011-2015/2016)

### 2. Background

The Mekong River Commission (MRC) was established by the 1995 Agreement on Co-operation for the Sustainable Development of the Mekong River Basin, between the governments of Cambodia, Lao PDR, Thailand and Viet Nam. The role of the MRC is to coordinate and promote cooperation in all fields of sustainable development, utilization, management and conservation of the water and related resources of the Mekong River Basin.

The MRC Secretariat (MRCS) is the operational arm of the MRC. It provides technical and administrative services to the Joint Committee and the Council to achieve the MRC's mission.

The Environmental Management Division (ED), in cooperation with Planning Division (PD) and Technical Division (TD), is responsible for environment monitoring, assessment, planning and management to support basin planning management and development for sustainable development of the Mekong River.

*MRC State of Basin Report:* The MRC launched its first State of the Mekong Basin Report (SOBR) in June 2003. The second SOBR was published in 2010, which was built on the first SOBR of 2003.

The SOBR aimed at providing readers with an understanding of (i) the important role that the Mekong system plays in people who live in the basin and depend on its water and related resources; (ii) the present state of and trends in water related resources within the basin; (iii) the need to develop water-related resources in ways which are equitable and sustainable from an economic, social and environmental point of view; and (iv) the importance of planning and monitoring development on a basin-wide scale so that gains in one sector or one geographic area do not result in losses in others.

Per the agreement among the MRC Member Countries, the State of Basin Report will be updated every 5 years serving as an important reference for the cyclic updating of the MRC Basin Development Strategy (BDS) and preparation of the Strategic Plan (SP) as well as the planning cycles of the basin countries (i.e. NIP). With this principle, the 3rd State of Basin Report will need to be available in 2018 prior to updating the BDS, SP and NIP for the strategic period 2021-2025.

Following the decision of the MRC Joint Committee at its 43rd Meeting, the preparation of the 3<sup>rd</sup> SOBR has been started since late 2015 by the former MRC Environment Team with support and participation of all former MRC programmes/teams. Under the new structure of the MRC Secretariat, this exercise will be executed through overall coordination of the Environmental Management Division (ED) with collaborative support and participation of all other Divisions and Office of CEO. To date, the Draft SOB Report or Preparatory SOB Report has been completed by the MRCS ED and was consulted with the MRC Member Countries at its regional consultation workshop held in March 2017. Based on the results of national and regional consultations, the Draft SOB (v.2.2) will need to be improved and finalized by the end of December 2018, with additional collection of latest data and information, and expansion of the scope of the report to cover whole Mekong River Basin, including Upper Mekong Basin in Myanmar and China, for approval of the MRC Joint Committee.

### **3. Objective of the Consultancy**

The objective of this consultancy is to collect secondary data of climate change (greenhouse gas, extreme events, temperature, rainfall) to support the preparation of MRC State of Basin Report 2018.

### **4. Key Expected Outputs**

The two following outputs of this consultancy are expected:

- (1) Data relating to climate change (greenhouse gas, extreme events, temperature, rainfall) for a period of available data for the last 30 years or at least from 2010 onward; and
- (2) Technical Report of climate change status and trends.

### **5. Responsibilities and tasks:**

The followings are responsibilities and tasks of the National Consultant:

- Work with assigned specialists and officers from Technical Support Division and Environmental Management Division, MRCS SOBR Core Team, and international consultants to identify additional data and information needs, including tables, figures, and maps, for the preparation of the mentioned data;



- Collect the relevant data (greenhouse gas, extreme events, temperature, rainfall) and check quality of the collected data and apply correction of the data wherever applicable;
- Work with ED's specialists and officers, and international consultants to assemble all required data sets and information for the preparation of SOBR 2018;
- Perform analysis of climate change status and trends for available data with guidance from assigned specialists and officers from Technical Support Division;
- Prepare, revise and finalize a short draft report on climate change status and trends;
- Prepare, revise and finalize the draft report on climate change status and trends;
- Contribute to the national consultations on the second draft SOBR 2018 in the MRC MCs, if required;
- Contribute to the regional consultation workshop on the 3<sup>rd</sup> draft of the SOBR 2018, if required; and
- Undertake other relevant tasks as required by the International Consultant and the MRCS SOBR Core Team.

#### 6. Working principles and reporting line:

The National Consultant will be working under the overall supervision of the Director of the Technical Support Division and in close and direct consultation and supervision with the Chief Hydrologist, assigned specialists and the MRCS SOBR Core Team.

#### 7. Deliverables and timelines:

A tentative schedule is provided below. The exact schedule will depend on the timing of the contracting with the successful consultant, but it is anticipated that the assignment will commence in 15 December 2017 until 15 May 2018.

No.	Task	Deliverables	No. days	Schedule
1.	<p>a. Work with assigned specialists and officers from Technical Support Division and Environmental Management Division, MRCS SOBR Team, and international consultants to identify additional data and information needs, including tables, figures, and maps, for the preparation of the mentioned data</p> <p>b. Collect the relevant data and check quality of the collected data and apply correction of the data wherever applicable</p> <p>c. Work with ED's specialists and officers, and international consultants to assemble all required data sets and information for the preparation of SOBR 2018</p>	Data relating to climate change (greenhouse gas, extreme events, temperature, rainfall) for a period of available data for the last 30 years or at least from 2010 onward	5	January 2018

2.	<ul style="list-style-type: none"> <li>a. Perform analysis of climate change status and trends for available data with guidance from assigned specialists and officers from Technical Support Division</li> <li>b. Prepare, revise and finalize the draft report on climate change status and trends.</li> <li>c. Contribute to the national consultations on the second draft SOBR 2018 in the MRC MCs, if required</li> <li>d. Contribute to the regional consultation workshop on the 3rd draft of the SOBR 2018, if required</li> </ul>	A short technical Report of climate change status and trends	5	February 2018
<b>Grand total</b>			<b>10</b>	

### 8. Qualifications and Requirements:

- Advanced degree in climate change, hydrology and water resources management and development or a related discipline;
- At least 10 years of working experience and knowledge on climate change, hydrology, water resources management and development;
- Strong knowledge and experience in preparation of river basin assessment reports or state of the basin reports;
- Demonstrated ability to write technical reports which can be readily understood by decision makers and the public;
- Familiarity with the Lower Mekong River Basin, the Mekong River Commission and the MRC stakeholders would be beneficial;
- Excellent verbal communication ability, including ability to make positive and insightful contributions to consultation workshops and inspire learning motivation amongst stakeholders;
- Strong work ethics, including commitment, responsibility, team spirit, and timely delivery; and
- Fluency in written and spoken English.

### 9. Condition of payment

The Consultant will be required to enter in a contract with the MRC Secretariat as per the terms and conditions of the contract document and the first payment of 20% of the total budget will be made upon signing of the Contract.

The final payment will be done after the completion of the deliverables (see Section 7), and the invoice submitted to the MRCS.

### 10. Intellectual property rights

Intellectual property rights - IPR: Information, data, database, knowledge resources in the forms of briefings, reports, proceedings, articles, essays, etc. issued by and for the MRCS will be the MRCS property. Any utility, announcement and disclosure that are without

MRCs highest levels of authority' permission is considered illegal and will be charged by relevant local and international legal procedures.

**11. Signature Block**

<b>MRC Secretariat</b> Division: Technical Support Division Name of Director: Bounlap Phethany Signature:	<b>Date:</b>
Division: Environmental Management Division Name of Director: Dr. Tien Hong Truong Signature:	<b>Date:</b>
<b>Consultant</b> Name of consultant: Signature:	<b>Date:</b>