



JICA



DOH



TICA

**General Information
of
Road Asset Management**

Batch 1: 11 – 29 November 2024

Conducted by

The Government of Japan

Japan International Cooperation Agency

The Government of the Kingdom of Thailand

Thailand International Cooperation Agency

Department of Highways



Japan International Cooperation Agency (JICA)

ODA and JICA

Since 1954, Japan has been providing financial and technical assistance to developing countries through ODA (Official Development Assistance), aiming to contribute to the peace and development of the international community. JICA is in charge of administering all ODA such as technical cooperation, ODA loans and grant aid in an integrated manner. JICA assists and supports developing countries as the executing agency of Japanese ODA, and works in over 150 countries and regions and has some 100 overseas offices.

JICA's Vision

Leading the world with trust

JICA, with its partners, will take the lead in forging bonds of trust across the world, aspiring for a free, peaceful and prosperous world where people can hope for a better future and explore their diverse potentials.

JICA's Mission

JICA, in accordance with the Development Cooperation Charter, will work on human security and quality growth.

Actions

1. Commitment: Commit ourselves with pride and passion to achieving our mission and vision.
2. Gemba: Dive into the field ("gemba") and work together with the people.
3. Strategy: Think and act strategically with broad and long-term perspectives
4. Co-creation: Bring together diverse wisdom and resources.
5. Innovation: Innovate to bring about unprecedented impacts.

Japan International Cooperation Agency (JICA)

Thailand Office

31st Floor, Exchange Tower,
388 Sukhumvit Road,
Klongtoey, Bangkok 10110

Thailand

Telephone : +66 2261 5250

Facsimile : +66 2261 5263

Website : <https://www.jica.go.jp/thailand/english/index.html>



Thailand International Cooperation Agency (TICA)

TICA's Vision

TICA aspires to be a central agency on technical and development cooperation under the Royal Thai Government to serve as a bridge for global sustainable development.

TICA's Mission

TICA is the main agency to execute international development cooperation with foreign governments, international organizations and intergovernmental organizations.

TICA is the focal agency in formulating strategic guidelines and policies on international development cooperation to be comprehensively in line with the Royal Thai Government's foreign policies.

Objectives

- To develop international cooperation plan, study and analysis on cooperation policy including implementation, follow-up and evaluation of technical cooperation projects.
- To administer development cooperation programmes provided to developing countries according to foreign policies of the Royal Thai government.
- To cooperate with various development partners including foreign governments and international organizations to develop technical cooperation projects for development under bilateral and multilateral frameworks.
- To administer fellowships and scholarships offered to developing countries for human resources development in public and private sectors as well as civil society.
- To coordinate international development cooperation.
- To disseminate information regarding development cooperation to government agencies concerned and international organizations.

Thailand International Cooperation Agency (TICA)

Ministry of Foreign Affairs

8th Floor, Government Complex Building B (South Zone)

Chaengwattana Road,

Laksi District, Bangkok 10210

Thailand

Telephone : +66 2203 5000 ext. 43302

Facsimile : +66 2143 8357

Website : <https://tica-thaigov.mfa.go.th>



DEPARTMENT OF HIGHWAYS (DOH)

DOH's Vision

To develop and manage the highway network that is convenient, connected, accessible, safe, and environmentally friendly, according to Road Hierarchy standards, benefiting all groups of people.

DOH's Mission

1. Develop a Highway Network that promotes connectivity, accessibility, and mobility to drive the country's economy and society.
2. Maintain and enhance the safety, and management level of the highway network to ensure continuous service readiness in accordance with quality standards.
3. Manage an organization that strives to become digital, adaptable to change, environmentally conscious, and inclusive of all groups, aiming for sustainable development goals.

Duties and Responsibilities

1. Enforcing highway laws and other involved laws, especially on motorways, national highways and concession highway.
2. Research and development, renovation and maintenance of the motorways, national highways and concession highway.
3. Cooperating with domestic and international organizations regarding highways issues.
4. Other duties as appointed by law, the Ministry of Transport and the cabinet.

Office of Department of Highways (DOH)

2/486 Si Ayutthaya Road, Ratchathewi, Bangkok, 10400 Thailand

Telephone : +66 2206 3789 ext. 25420

Facsimile : +66 2354 6600

Website : <https://www.doh.go.th>

The Third Country Training Programme on “Road Asset Management” is conducted by the Government of Thailand and the Government of Japan as part of their Technical Cooperation Scheme. The course arrangements are set up by Thailand International Cooperation Agency (TICA), and Japan International Cooperation Agency (JICA) in collaboration with Department of Highways (DOH), Thailand.

Title

Road Asset Management

Purpose

Disseminating and exchanging technical knowledge and best practices on Road Planning, Road and Bridge Maintenance Management System, Road Traffic Safety Issues and Tunnel Engineering, and also creating road network cooperation among civil engineers of road authorities in ASEAN and BIMSTEC regions.

Objectives

1. To enable the participants having knowledge and understanding on Planning for Road Infrastructure in Thailand.
2. To enable the participants having knowledge and understanding on effective maintenance management system for road and bridge.
3. To enable the participants having knowledge on database formulation and innovative applications for road and bridge maintenance.
4. To enable the participants having knowledge and understanding on road traffic safety.
5. To enable the participants having knowledge and understanding on tunnel engineering.

Anticipated Benefits

Participants are able to gain knowledge and know-how on the following issues upon completion of the course:

1. Planning for Road Infrastructure in Thailand
2. Road Maintenance Management System
3. Bridge Maintenance Management System
4. Innovative Applications for Road and Bridge Maintenance
5. Climate-Resilient Road and Bridge Construction
6. Road Traffic Safety
7. Tunnel Engineering
8. Road and Bridge Maintenance Technologies Transferred from Japan
9. Technical Visits on Road Engineering and Cultural Heritage

Duration

3 weeks including weekends

Batch 1: 11-29 November, 2024

Invited Countries

The government of the following countries will be invited to nominate their staffs to apply for the course:

ASEAN: Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Timor-Leste, Vietnam, Thailand, each country can nominate two participants and one alternate applicant for the scholarship.

BIMSTEC: Bangladesh, Bhutan, Nepal, Sri Lanka, each country can nominate one participant and one alternate applicant for the scholarship.

Number of participants: The total number of participants is 23.

Language

The courses will be conducted in English.

Institution

The course will be conducted by Department of Highways (DOH).

Venue

The course will be conducted mainly at Office of Department of Highways (DOH), Ministry of Transport located at 2/486 Si Ayutthaya Road, Rajathevee, Bangkok, Thailand.

Tel: +66-2206 3789 ext. 25420 Fax: +66-2354 6600 Website: <https://www.doh.go.th>

Qualification

The participants are required to have the following requirements.

1. be nominated by their respective Governments in accordance with the procedure stipulated in Application Procedure (1);
2. have completed at least Bachelor Degree or equivalent academic background in Civil Engineering or related field in Road Engineering;
3. be government official with at least 5 (five) years working experience in Road Engineering;
4. be under 55 years of age;
5. be proficient in spoken and written English;
6. be in good health both physically and mentally; each participant should have a health certificate provided by an authorized physician. The medical report form is also attached together with the Nomination Form. Pregnancy is regarded as a disqualifying condition for participation in the Course; and
7. not to be serving in any form of the military services.
8. As per Gender Equality, women are encouraged to apply for this programme.

Application Procedure

1. The Government applying for the Course on behalf of its applicant(s) should forward three (3) copies of the prescribed application form and list of facilities existing for each applicant **not later than 20th September, 2024** to the Government of the Kingdom of Thailand through the Royal Thai Embassy, or the Royal Thai Consulate-General in their countries, and send one (1) copy directly to
Director,
Human Resources Development Cooperation Division,
Thailand International Cooperation Agency (TICA),
Ministry of Foreign Affairs,
The Government Complex, Building B (South Zone),
8th Floor, Laksi District, Bangkok 10210, THAILAND
Tel. +66 2203 5000 Ext. 43302, +66 2143 8451
e-mail: tctp.tica@gmail.com, siwalee.w@mfa.go.th
2. The Government of the Kingdom of Thailand will inform the applying governments for the applicants accepted to the Courses and will issue the invitation letter to accepted applicants not later than thirty (30) days before the commencement of the Course.

Certificate

Participants who have successfully completed the course will be awarded a certificate by JICA, TICA, and DOH.

Allowance and Expenses

The following allowance and expenses will be borne by the Royal Thai Government and the Government of Japan

1. Economy class round trip air ticket between the nearest International Airport of participants' countries and Bangkok will be issued by TICA to the approved candidate.
 - The approved candidates are requested to send a photocopy of their passport, the page which shows the correct names for arranging the electronic air ticket.
 - The electronic air ticket will be sent to the approved candidates, via email from TICA.
2. Living allowance at the rate of Baht 600 per day (equivalent to approximately US\$17) will be paid to the participant during stay in Thailand. This living allowance is for food, local transportation and other personal daily expenses. However, each participant is suggested to have a pocket money for a few days expenses prior to the allowance payment.
3. In accordance with relevant regulations, under the health insurance arrangement, free minor medical treatment will be provided for participant who becomes ill during his/her stay in Thailand.

Accommodation and Meals

The accommodation of participants is located at The Palazzo Bangkok Hotel, Ratchadapisek Road, Bangkok. Participants should have their meals by their own per-diem.

The Palazzo Bangkok

111 Soi Niam-utit, Ratchadapisek Road, Bangkok 10400 Thailand

Tel+66 2276 4995-9 Fax: +66 2276 5000-2

Website: <https://www.palazzobangkok.com>

Contact persons

For more information, please contact:

- Director, Human Resources Development Cooperation Division, TICA

Tel. +66 2203 5000 Ext. 43302 Fax. +66 2143 8451

e-mail: tctp.tica@gmail.com, siwalee.w@mfa.go.th

- Ms. Manlika Nuankerd

Director, Foreign Relations Group, Bureau of International Highways Cooperation, DOH

Tel. +66 2354 6707 Fax. +66 2354 6729 e-mail: manlika1@yahoo.com

- Ms. Puttarucksa Ruangsiri

Director, Road Human Resources Development Cooperation Group,

Training Division, DOH

Tel. +66 2206 3789 ext. 25420, +66 8 1822 1756 Fax. +66 2354 6600

e-mail: putta.rua@doh.go.th

Other information: International Travelling

1. Participants are required to arrive in Thailand on the date as designated by TICA after confirmation of acceptance. However, it will be finally confirmed to the air tickets sent to the participants. The final confirmation of the air tickets will be sent to the participants in advance.

2. Participants should assume responsibility for other expenses incurred during travel between the participants' home countries and Thailand such as local transportation, passport fee, or airport tax.

3. Prior to arrival in Thailand, all participants should obtain the Non-Immigrant VISA (F) from the Royal Thai Embassy or the Royal Thai Consulate-General in their countries or the countries nearby. VISA fee can be reimbursed from TICA with original receipt.

4. Upon arrival at Bangkok International Airport, participants are asked to look for TICA sign the AOT Limousine customer relation counters and proceed to it. Participants are required to show the Instruction of Fellowship Award at the counter so that arrangements for airport transfer to the reserved hotel will be made. Participants do not have to pay for the AOT limousine service charge since the cost will be paid directly to AOT by TICA. Participants are recommended not to take a public taxi to the hotel by themselves as the taxi fees cannot be refundable from TICA

5. Participants shall not bring any members of their families with them during the training.

Course Outline

(JFY 2024)

Tentative Program

TCTP on Road Asset Management

Batch 1: 11 – 29 November 2024

(Sun 10 Nov): Participants arrive in BKK

Day 1 (Mon 11 Nov): Course Introduction and Department of Highways in General and Planning for Road Infrastructure in Thailand

- 09.00-09.30 Registration
- 09.30-10.45 Course Orientation and Introduction (Preparation of Country Report Presentation and Budget Allocation)
- 10.45-11.00 Coffee break
- 11.00-12.00 Opening remark by the Director-General of DOH
Opening remark by JICA / TICA
- 12.00-13.00 Reception Lunch
- 13.00-16.00 Department of Highways' Road Management and Administration and its International Highways Development Networks
Transportation Modes
- 16.00-18.00 Group Activities

Day 2 (Tue 12 Nov): Public Private Partnership for Road Project and Road Maintenance Management System

- 08.00-09.00 Country Paper Presentation
(Cambodia, Lao PDR., Myanmar)
- 09.00-12.00 Public Private Partnership (PPP) for Road Project
- 12.00-13.00 Lunch
- 13.00-16.00 Road Maintenance Management System

Day 3 (Wed 13 Nov): New Technologies in Road Maintenance and Introduction to Bridge Construction and Maintenance

- 08.00-09.00 Country Paper Presentation
(Indonesia, Malaysia, Philippines)
- 09.00-12.00 New Technologies in Road Maintenance
- 12.00-13.00 Lunch
- 13.00-16.00 Introduction to Bridge Construction and Maintenance

Day 4 (Thu 14 Nov): Bridge Inspection and Maintenance

- 08.00-09.00 Country Paper Presentation
(Timor-este, Vietnam, Thailand)
- 09.00-12.00 Bridge Inspection and Maintenance
- 12.00-13.00 Lunch
- 13.00-16.00 Improvement and Rehabilitation of Bridge

Day 5 (Fri 15 Nov): Bridge Maintenance and Management System Database, and Deterioration, Causes and Effects on Bridge Structure

- 08.00-09.00 Country Paper Presentation
(Bhutan, Bangladesh, Nepal, and Sri Lanka)
- 09.00-12.00 Bridge Maintenance and Management System Database
- 12.00-13.00 Lunch
- 13.00-16.00 Deterioration, Causes and Effects on Bridge Structure

- Day 6 (Sat 16 Nov): Cultural Visit and City Tour**
08.00 Depart from the hotel
08.30-10.30 Wat Phra Kaew and the adjoining Grand Palace
10.30-13.00 Depart for Chonburi
13.00-14.00 Lunch
14.00-15.00 Depart for Pattaya
15.00-17.00 City Tour
- Day 7 (Sun 17 Nov): Cultural Visit and City Tour**
09.00-12.00 Cultural Visits and City Tour
12.00-13.00 Lunch
13.00-16.00 City Tour
- Day 8 (Mon 18 Nov): Technical Visit: Traffic Management and Road Asset Management on Intercity Motorway, Thailand**
07.30 Depart from the hotel
09.00-12.00 Technical Visit: Traffic Management on Intercity Motorways Thailand (Lecture and Site Visit at CCB)
12.00-13.00 Lunch
13.00-16.00 Technical Visit: Road Asset Management on Intercity Motorway Thailand (Lecture and Site Visit at Rest Area)
16.00 Depart for the hotel in Bangkok
- Day 9 (Tue 19 Nov): Bridge Design, and Introduction of Bridge Deterioration Survey for Bridge Repairs**
09.00-12.00 Bridge Design: Suspension Bridges and Cable-Stayed Bridges
12.00-13.00 Lunch
13.00-16.00 Introduction of Bridge Deterioration Survey Equipment and Materials for Bridge Repairs
- Day 10 (Wed 20 Nov): Climate-Resilient Road and Bridge Construction, and Highway Design**
09.00-12.00 Climate-Resilient Road and Bridge Construction
12.00-13.00 Lunch
13.00-16.00 Climate-Resilient Highway Design
- Day 11 (Thu 21 Nov): Road Traffic Safety**
09.00-10.30 Road Safety Management
10.30-12.00 Intelligent Transport System
12.00-13.00 Lunch
13.00-16.00 Road Safety Devices for Highways
- Day 12 (Fri 22 Nov): Road Tunnels**
09.00-12.00 Planning for Road Tunnels
12.00-13.00 Lunch
13.00-16.00 Investigation and Design for Road Tunnels
- Day 13 (Sat 23 Nov): Free Day**
- Day 14 (Sun 24 Nov): Cultural Visits (Northern Thailand)**
08.00-09.00 Depart for Chiang Rai Province
09.00-12.00 Cultural Visits at Chiang Rai Province
12.00-13.00 Lunch
13.00-16.00 Cultural Visits at Chiang Rai Province cont.

- Day 15 (Mon 25 Nov): Technical Visits on Erosion Protection**
 09.00-12.00 Technical Visits on Erosion Protection for Landslides in the Mountainous Areas
 13.00 Lunch
 13.00-16.00 Technical Visits on Erosion Protection cont.
- Day 16 (Tue 26 Nov): Technical Visits on International Bridge Management**
 09.00-12.00 Depart for The 4th Thai–Lao Friendship Bridge Management at Chiang Khong – Houayxay, Chiang Rai Province
 12.00-13.00 Lunch
 13.00-16.00 Depart for Chiang Rai International Airport
 18.00 Depart for Bangkok
- Day 17 (Wed 27 Nov): Guidelines for Design Change, Inspection, Operation and Maintenance of Road Tunnels**
 09.00-12.00 Guidelines for Design Change, Inspection, Operation and Maintenance of Road Tunnels
 12.00-13.00 Lunch
 13.00-16.00 Guidelines for Design Change, Inspection, Operation and Maintenance of Road Tunnels cont.
- Day 18 (Thu 28 Nov): Road and Bridge Maintenance Technologies Transferred from Japan**
 09.00-12.00 New Technologies in Road and Bridge Maintenance
 12.00-13.00 Lunch
 13.00-16.00 New Technologies in Road and Bridge Maintenance cont.
- Day 19 (Fri 29 Nov): Innovative Applications for Road and Bridge Condition Detection**
 09.00-12.00 Innovative Applications for Road and Bridge Condition Detection
 12.00-13.30 Lunch
 13.30-14.00 Closing Ceremony
 14.00-16.00 Learning Reflection and Course Evaluation
- (Sat 30 Nov): Departure of Participants**

* The subject of course outline may be changed for opportunities, if necessary.

Annex-1

Country Report for the Third Country Training Program on Road Asset Management

Content of Country Report

1. Name of Participant(s)
2. Chart of Organization the participant belong to, the type of participant's current responsibility, managing, training, instructing, and job description.
3. Information
 - General Information of Country, map and etc.
 - Organization Structure of Ministry and Department
 - Responsibilities of participants' organization, overall length of roads of country, classification of roads etc.
 - Road and bridge maintenance and management in participant's country (e.g. methods and frequency of inspection, selection of maintenance methods, maintenance database, etc.)
 - Maintenance and management of other kinds of road assets (e.g. street lightings, signs, traffic signals, cameras, guardrails/barriers, etc.)
 - Etc.

Country Lists and Focal Point Information

Country	Focal Point/ Concerned Agencies
Cambodia	Ministry of Public Works and Transport Street 598 (H.E.Chea Sophara Street) Sangkat Chrang Chamres 2, Khan Russey Keo Phnom Penh, Cambodia Tel/ Fax : +855 23 426 640, +855 23 427 862 Email : info@mpwt.gov.kh
Lao PDR	Ministry of Public Works and Transport Lanxang Avenue ,Vientaine Capital, Lao PDR Tel : +856 21 412255 Fax : +856 21 412250 Email: webmaster@mpwt.gov.la
Indonesia	Ministry of Transport of Indonesia Seditjend, PerhubunganDarat Jalan Medan Merdeka Barat No. 8 Jakarta Pusat 10110 Jakarta, Indonesia Tel : +62 21-3811308, 3505006 Email : info151@dephub.go.id
	Director Institute of Road Engineering JL. Raya Timur No.264, Bandung, West Java, Indonesia
Malaysia	Director General Public Works JABATAN KERJA RAYA MALAYSIA Ibu Pejabat JKR Malaysia Jalan Sultan Salahuddin 50582 Kuala Lumpur, Malaysia Tel/ Fax : +603 2610 8888 Email: komunikasi@jkr.gov.my
Myanmar	Ministry of Construction Building No11, Ministry of Construction , Naypytaw,Myanmar Tel/ Fax : +09 492 01878 Email : info@construction.gov.mm
Timor-Leste	Ministry of Transport and Communications Rua Avenida Fransisco Xavier do Amaral, No 8, Ex.Telecom Mercado Lama, Dili, Timor-Leste Tel/ Fax : +670) 333 9355 / 333 9353 Email : info@mof.gov.tl

Country Lists and Focal Point Information

Country	Focal Point/ Concerned Agencies
Philippines	Secretary Metropolitan Manila Development Authority EDSA Corner Orense Street, Guadalupe Nuevo, 1212 Makati City, The Philippines
	Secretary Department of Public Works and Highways Region IV-B Compound, EDSA, Quezon City, The Philippines
Vietnam	Vietnam Road Administration Ministry of Transport 80 Tran Hung Dao St, Hoan Kiem Dist, Ha Noi, Vietnam Tel. +84 3942 2079 Fax. +84 3942 1436 Email : tinbai@mt.gov.vn http://www.mt.gov.vn
	Directorate for Roads of Vietnam Block 20, Ton That Thuyet Street. CauGiay New Tan, CauGiay District, Hanoi, Vietnam Tel. +842 43857 1444 Fax. +842 438 571 440
Bangladesh	Chief Engineer Local Government Engineering Department LGED Bhaban, Agargaon, Shere Bangla Nagar, Dhaka-1207, Bangladesh Tel. +882 5815 2802, +882 4811 2576 Fax. +882 911 0512 Email : mis@lged.gov.bd
	Director General Roads and Highways Department Ministry of Communications Sarak Bhaban, Tejgaon, Dhaka 1208 Bangladesh Email: info@rhd.gov.bd
Bhutan	Secretary General Ministry of Works & Human Settlement Po Box 791, Opposite to Police Building, Thimphu : Bhutan Tel. +975 2 327998/322182/327451/322871 Fax.+975 2 323122/323121/322270/32314 Email: support@mowhs.gov.b

Country Lists and Focal Point Information

Country	Focal Point/ Concerned Agencies
Nepal	Secretary Ministry of Physical Infrastructure and Transport SinghaDurbar, Kathmandu , Nepal Tel. +977 1 4211732, 4211931, 4211655, 4211880 Fax.+977 1 4211720 Email: info@mopit.gov.np
	Director General Department of Roads Patandhoka Road, Lalitpur 44600, Nepal Tel +977 1 5529075 Email : feedback@dor.gov.np
Sri Lanka	General Manager Road Development Authority 216 Denzil Kobbekaduwa Mawatha, Koswatta, Battaramulla, Srilanka Tel : +94 11 2 046200
Thailand	Permanent Secretary, Ministry of Transport 38 Ratchadamnoen Nok Road, Wat Sommanat, Pom Prap Sattru Phai, Bangkok, 10100, Thailand
	Director- General, Department of Highways 2/486 Si Ayutthaya Road, Ratchathewi, Bangkok, 10400, Thailand
	Director- General, Department of Rural Roads 9 Phaholyothin, Anusawari Bangkhen, Bangkok, 10220, Thailand
	Governor, Expressway Authority of Thailand EXAT Expressway Administration Center 111 Rim Khlong Bang Kapi Rd., Bang Kapi, Huai Khwang, Bangkok 10310, Thailand