



भारत का राजदूतावास, बैंकाक
EMBASSY OF INDIA
BANGKOK

No. POL/10/2023

The Embassy of India, Bangkok, presents its compliments to the Ministry of Foreign Affairs of the Kingdom of Thailand and has the honour to propose the following two training programmes with reference to the 'Mekong Ganga Cooperation (MGC) Plan of Action (2019-22)':

- i. **Action Plan 6.1 – Training programmes and workshops to exchange experiences and best practices in community farming and water resource management:** A 21-day training programme under the theme "Technological innovations on Integrated Water Management: The Indian Experiences" by North Eastern Institute of Water and Land Management (NERIWALM) from 3-24 April 2023 at NERIWALM at Tezpur, Assam, India. The NERIWALM is an institute under the Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti, Government of India. Each MGC country is requested to nominate 4 participants. A detailed concept note and the contents of the training module are enclosed.
- ii. **Action Plan 8.3 - Training programmes for MGC countries on preparation of feasibility studies and detailed project reports for highway projects and construction and maintenance of highways:** A 12-day training programme by Indian Academy of Highway Engineers (IAHE), NOIDA, Uttar Pradesh, in May 2023 at IAHE, Noida. The IAHE is an institute for training of highway professionals established as a registered Society under the administrative control of Ministry of Road Transport & Highways, Government of India. Each MGC country is requested to nominate 5 participants. A detailed concept note and the details of the training programme are enclosed.

The esteemed Ministry is requested to indicate its willingness to participate in the above training programmes. An early response, preferably by 25 January 2023, would be highly appreciated.

The Embassy of India, Bangkok, avails itself of this opportunity to renew to the Ministry of Foreign Affairs of the Kingdom of Thailand the assurances of its highest consideration.



Ministry of Foreign Affairs
{Mekong Cooperation Unit}
Kingdom of Thailand, Bangkok

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भारतीय राजमार्ग अभियन्ता अकादमी
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
Indian Academy of Highway Engineers
(Ministry of Road Transport and Highways, Govt. of India)

Annex-1

Brief Concept Paper for organizing training programmes for MGC Countries

Background: Indian Academy of Highway Engineers (IAHE) is an apex institute of excellence for training of highway professionals established as a registered Society under the administrative control of Ministry of Road Transport & Highways, Government of India in January, 1983. The Hon'ble Minister is the President and Secretary, Road Transport & Highways is the Vice-President of the Society. The Society is advised by a Governing Body comprising eminent and distinguished Engineers and Administrators of the country. Secretary, Ministry of Road Transport and Highways is the Chairman of this Governing Body.

IAHE has its own green sprawling campus developed on 10 acres of land at A-5, Sector-62, National Highway-24, NOIDA (UP). The campus is very well developed, furnished and equipped with centrally air-conditioned conference hall, seminar hall, lecture halls, computer laboratory, material testing laboratory, library, trainee's hostel with dining and recreational facilities supported with staff quarters which are functioning effectively. All the hostel rooms are well furnished and equipped with personal toilets, LED TV with DTH and Wi-Fi net access facilities for comfortable living and learning.

IAHE has organized (till 31 March, 2022) about 1622 training programmes for about 43,393 highway professionals including 1948 international participants from 50 Afro-Asian countries participated. It has exclusively organized 28 programmes for 623 African engineers from 45 countries during 2010-2019 under MEA sponsored IAFS scheme. Exclusively developed training modules are delivered as per the requirements by eminent experts of IAHE including guest experts invited from public and private sectors engaged in highway sector. IAHE has been endeavoring in fulfillment of its primary objective i.e. training of highway professionals, since last 40 years.

The Proposal: The experience gained while implementing gigantic road development programmes at Central and Provincial level under the National Highway Development Projects (NHDP) and Pradhan Mantri Gramin Sadak Yojana (PMGSY) schemes would be shared with highway professional from MGC countries for further improving their road network. IAHE would be delighted to impart training of highway professionals from MGC countries in the field of highway engineering and construction (roads and bridges) as mentioned by the Joint Secretary (Transport), MORTH during the inter-ministerial meeting held on 29th March, 2019 in MEA. It is proposed to organize (short duration training) covering various aspects of highways i.e. planning, design, construction, quality assurance and supervision, operation, maintenance, project management, procurement, contract management, IT applications, road safety engineering and audit, etc., Keeping in view the experience, following training programmes are proposed to be organized for highway professionals of MGC countries at IAHE during current financial year:

- (i) Feasibility Study and Preparation of Detailed Project Report (DPR) for Highway Projects
- (ii) Construction and Maintenance of Highways (Roads and Bridges)

Detailed program contents, delivery schedule, objective, qualification and experience requirements, etc. are attached at Annex-2. Detailed estimate for organizing the training programmes at IAHE is attached at Annex-3.

कृपया ध्यान दें सभी पत्राचार केवल निदेशक को पदनाम द्वारा संबोधित किए जाएँ। Please note: All correspondence should be addressed to the Director by designation

ए-5, इंस्टीट्यूशनल एरिया, सेक्टर-62, नोएडा (यूपी) - 201 301 (भारत) / A-5, Institutional Area, Sector-62, Noida (UP) - 201 301 (India)

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भारतीय राजमार्ग अभियन्ता अकादमी
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
Indian Academy of Highway Engineers
(Ministry of Road Transport and Highways, Govt. of India)

Annex-2

Details of the training programmes

Course No.1: Feasibility Study and Preparation of Detailed Project Report for Highways

A. Name and address of the Institute	Indian Academy of Highway Engineers (IAHE), (Ministry of Road Transport & Highways, Govt. of India), A-5, Sector-62, NH-24 Bypass, Noida-201309 (UP), India
B. Name/title of the programme	Feasibility Study and Preparation of Detailed Project Report for Highways
C. Proposed dates and duration of the programme in weeks/months	As indicated in delivery schedule. Duration: 2 weeks (12 training days)
D. Eligibility criteria for participants	<p>a. Educational qualification b. Work experience c. Age limit d. Target group (level of participants and target Ministry/Department etc.)</p> Degree/Diploma in Civil Engineering Minimum 5 years of work experience -NA- Middle level highway engineer from Highway / Road Development Department / Ministry
E. Aims & Objectives of the programme	To expose the participants about feasibility studies to prepare excellent quality of detailed project reports and share Indian experience.
F. Detailed/contents of the programme	Details attached
G. Mode of evaluation of performance of the participants	Group discussions and presentations
H. Course fee (Indian Rupees)	Rs.18,23,100/- per course of 25 participants. This fee includes all the training related expenses, lodging and boarding at IAHE hostel, training materials, etc. This doesn't include travelling expenses (to & fro airfare), medical/health insurance, etc. Pick & drop at New Delhi Airport shall be provided if travel itinerary sent in advance.
I. Contacts:	
Head of Academy:	Mr. Sanjeev Kumar Director, IAHE, A-5, Sector-62, Noida-201309 (UP), India Tel: 91-120-2975331-2, Email: director-iahe@gov.in
Course Director:	Mr. Dinesh Kumar Sharma, Joint Director, IAHE, A-5, Sector-62, Noida-201309 (UP), Tel: 91-120-2975331-2, Email: jd.iahe@gmail.com , dinesh.66@gov.in Whatsapp Mobile: 8076609185, 9711939881

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Course contents: Feasibility Study and Preparation of Detailed Project Report for Highways

1. Overview of the course and its objectives, Groups Formation
2. Road Development Scenario in India - An overview
3. Selection of roads, Core network, Pre-feasibility activities, Finalization of alignment, Public/community consultation etc.
4. Traffic Studies for Preparation of DPR (Road and Bridge Designs)
5. Introduction different models of contracts viz. Item rate / PPP / EPC and adoption of the particular model for taking the projects
6. Modern Survey Techniques using LiDAR/Drone, GIS/GPS applications, Data Collection and Fixing the alignment
7. Geotechnical Investigations and Materials Survey for Road and Bridge construction
8. ESMF, Environmental, Social and Safety Issues, Legal Framework, Integration of R&R with DPR, etc.
9. Feasibility Study, Preparation of DPRs (New Road and Widening), Check list for DPRs & Estimates, Proof checking of Designs/Drawings, Scrutiny of Estimates and Bid Documents
10. Economic analysis of highway projects
11. Project Evaluation (EIRR, FIRR)
12. Design of Flexible Pavements including Rural Roads Pavement Design
13. Design of Rigid Pavements
14. Materials Specifications, Acceptance Criteria, Significance of various Tests and Demonstration of Tests for road & bridge works
15. Geometric Design of Highways and Use of MX Software
16. Strengthening/Overlay Design for Flexible Pavements
17. Planning, Design, Construction and Maintenance of Hill Roads
18. Quality Assurance Systems and TQM for Highway Projects
19. Field Visits in NCR region for preparation of DPR and QC Tests at field
20. Planning, design & construction for CD structures, Causeways, Culverts, submersible bridges, etc.
21. Siting of Bridges, GAD, Hydraulic Analysis of Bridge Waterways for Foundation Design
22. Overview Design of Foundation and Substructures
23. Overview Design of Superstructures for Bridges and Flyovers,
24. Overview Seismic consideration for designing structures & bridges with design Examples
25. Modern Trends in Design and Construction Bridges/Flyovers - An overview
26. Repair & Rehabilitation of Bridges, DPRs & Estimates
27. Design and Construction of High Embankment
28. Bituminous Mixes, Bituminous Mix Design, Bituminous Construction
29. Concrete Mix Design, Admixtures, Curing Compound, QC Tests for Cement and Concrete materials
30. Demonstration QC tests on highway materials and Hands-on practice in the IAHE material testing laboratory
31. Group Presentations and Discussions
32. Evaluation and Concluding Session

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