

SEACAP 003

Mainstreaming Appropriate Local Standards and Specifications & Developing a Strategy for MCTPC Research Capacity

TRL Ltd

In Association with

LTEC and Intech Associates



Content

- **Project Background**
- **Contract, Structure & Mobilisation**
- **The Task Groups**
- **Programme**



Rural roads are of vital importance to rural communities for socio-economic wellbeing and reduction of poverty



Appropriate Standards & Specifications

It is now appreciated that low volume rural roads tend to respond to the dominance of a range of factors, collectively known as the "Road Environment"



Natural factors

- Climate/rainfall
- Hydrology
- Terrain
- Materials availability
- Sub-grade

Imposed factors

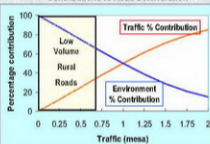
- Materials selection
- Traffic mix
- Axle loads
- Construction regime
- Maintenance regime

Socio-economic factors

- Whole-life costing
- Health and safety
- Local Employment
- Local Economy



Contributions to Road Deterioration



Regional Lessons

SEACAP 4 in Vietnam has highlighted an apparent mismatch between the pavement options currently being used, their road environment, and many of the materials being used to construct them.



Materials for Maintenance

Local (village) driven maintenance will tend to use immediately available local materials.



Maintenance causing gravel surface deterioration to earth condition

SEACAP 1, 8 and 17 Trials

Sustainable Options Potentially Available



Research Application

Undertaking research and developing likely solutions is not nearly enough.

Suitable Standards are therefore seen as essential to provide the context and control framework within which resource-based pavement options may be assessed and selected for appropriate use with appropriate technical specifications.

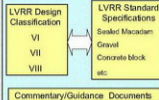


Toll Terminology	Project Definition	Working Terminology
Local Roads	Low volume rural roads - design classes V5VR8 as defined in the MCTPC document 'Specification for Local Roads'	Low Volume Rural Roads (LVRR)
Road Task Standards	A classification of Low Volume Rural Roads and their geometric design based on the location they have to perform in terms of traffic mix and acknowledging the road environment in which they have to operate.	LVRR Design Classification
Road Design specifications	Technical construction specifications (for example for SEACAP's 1, 2 and 3)	LVRR Standard Specifications
Design Standards Matrix	A matrix of available pavement and surfacing options related to LVRR Design Classification and appropriate rural regions defined by materials, climate and terrain	LVRR Option Matrix
Local Road Technical Standards	The combination of the LVRR Design Classification and LVRR Standard Specifications together with associated supplementary documents	LVRR Standards

Administration Classification

National
Provincial
District
Kum Ban
Village
Etc

LVRR STANDARDS



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Contract

The Agreement for the project was established under a Memorandum of Understanding (MoU) between the MCTPC on behalf of the Government of Lao PDR and the Department for International Development (DFID), UK

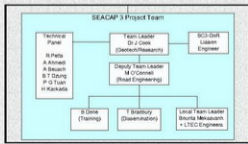
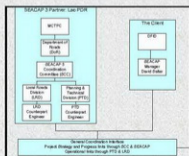
A contractual agreement has been signed between Crown Agents (acting as agents for DFID) and TRL Ltd. The duration of the project is 12 calendar months.

TRL have entered into a contractual agreement with LTEC as the principal associates to provide a total of 68 person months of services over the duration of the project



SEACAP 3 Structure

3 Components comprising:
11 modules organised into 4 Work Groups



Mobilisation

Effective mobilisation of SEACAP 3 commenced in week beginning 29th January with the arrival in Vientiane of Dr J Cook and Mr M O'Connell

A Project Office has been set up in the LTEC main office at Km 5, Thadeua Road, and fully mobilised on 1st February with telephone and internet communications.



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Task Group 1

Collect, collate and review available documents relevant to LVRRs in Lao PDR, followed by a report summarising the review and highlighting key issues. Collate review findings into a LVRR -road environment- technical specification matrix. Knowledge gaps will be identified.

Draft or amend existing road definitions into LVRR Standards based on their perceived function. Draft or amend existing local & regional Technical Specifications suitable for linkage into the above Standards

Advise and assist the MCTPC on procedures for mainstreaming the LVRR Standards and associated Technical Specifications

