



REQUEST FOR EXPRESSION OF INTEREST (REOI) - DYNAMIC CONE PENETROMETER (DCP) TESTS

EQUIPMENT VALIDATION FORM

Instructions:

Interested applicants should complete the equipment validation form and submit same in response to the Expression of Interest (EOI).

No.	Equipment Type and Characteristics	Owned (Yes or No)	Evidence of Documentary Proof of Ownership (Yes or No)	Minimum number required
1.	Transport Research Laboratory (TRL) DCP equipment, complete with DCP rods and cones			1

Applicant's Acknowledgement:

- I/we hereby confirms the listing of the equipment for the proposed EOI.
- I/we also accept that the National Works Agency may inspect & verify the proposed equipment at my/our site/registered office.
- I/we further confirm that in the event of award of contract to me I/we shall engage equipment-operating crew meeting the requisite qualifications or certification.

Name of contractor: _____

Name of authorized representative: _____

Signature _____

Date: _____

Company Seal: _____



TERMS OF REFERENCE FOR DYNAMIC CONE PENETROMETER (DCP) TESTS – EXPRESSION OF INTEREST

The following requirements relate to Dynamic Cone Penetrometer (DCP) Soil Investigation and Surveys:

DCP Equipment

The DCP equipment required for DCP surveys is a **Transport Research Laboratory (TRL) DCP equipment**, complete with DCP rods and cones. The equipment is usually supplied in a box with all the necessary components to carry out the test (spares not included). It is available from **CONTROLS GROUP INC.**

Staffing

Each DCP team will have a minimum of four (4) persons, comprising three (3) Laboratory Technicians and a driver. Also required is a supervisor (Snr. Laboratory Technician) who will mark out the DCP test points and conduct supervision of the team. This supervisor can supervise two (2) or more DCP teams if required to do so.

Visual Condition Survey

The DCP surveys should include a visual inspection of the surface condition of the roadway; to include cracking and deformation observed in the wearing surface.

Methodology

The proposed method of assessment should involve the following:

- Dynamic Cone Penetrometer (DCP) measurements at every 250-meter interval, unless otherwise instructed by the Engineer. DCP surveys is to be done using a standard DCP equipment having a 60-degree cone. DCP is to be carried out to a depth of at least 500mm. Where possible a depth of 900mm should be achieved to include the determining of the subgrade CBR strength.

Collection of data from DCP surveys

- Data measurement should be collected at all DCP survey points to allow for analysis and plotting by the contractor. DCP data obtained shall be analyzed by the UKDCP software or an otherwise suitable software program.

Analysis of Data

- The data obtained shall be analyzed to determine insitu CBR of the Basecourse, Subbase and Subgrade.

Presentation of Data to Engineer

- The data analyzed should be presented on the standard summary sheet provided in the software application.

- The analyzed data should also be collated and presented in a tabulated form showing the following:
 - Road Name
 - Chainage
 - Thickness of each layer
 - CBR strength



Form PER -1

Proposed Key Personnel

Contractors should provide the names of suitably qualified key personnel to meet the specified requirements stated in Terms of Reference. The data on their experience should be supplied using the Form below for each candidate.

Item	Name of Key Personnel	Key Function	Certification and Qualification	No. of Years in Key Functional Capacity
1.		Senior Laboratory Technician		
2		Laboratory Technician (1)		
3.		Laboratory Technician (2)		
4.		Laboratory Technician (3)		
5.		Licensed Driver		