CORK COUNTY COUNCIL

Regional and Local Road Design Office

Information Memorandum, Specification and Pricing Document

for

Falling Weight Deflectometer
Survey and Report Services
2027

November 26

Falling Weight Deflectometer
Survey and Report Services
2027

Cork County Council Regional and Local Road Design Office are seeking tenders for Falling Weight Deflectometer (FWD) Survey and Report Services for a number of locations throughout County Cork. The scope of the Works involves FWD Survey and Report on c.135 No. road lengths yet to be listed in a Schedule. Total estimated length 165Km. It is expected that the average length of the majority of the sites will be 1 km however it is expected that approximately 5 number sites will be greater than 2 kilometres in length, this is reflected in the pricing document. This total length is possibly subject to change by plus or minus 25%. These locations will be spread throughout the County (i.e. the Municipal districts of West Cork, Bandon-Kinsale, Carrigaline, Cobh, East Cork, Fermoy, Kanturk-Mallow and Millstreet-Macroom). A map of the Municipal districts of Cork County is included in Appendix 1. The payment for extra or reduced road works will be made on a per site basis.

The successful tender will receive a full schedule of works before works commence containing traffic data and design requirements for each site.

The successful tenderer will be required to:

- **Act in the role of PSCS:**
  - Carry out the role of Project Supervisor Construction Stage as required by Health & Safety legislation.
- **Perform FWD Testing and Reporting:**
  - Undertake Falling Weight Deflectometer (FWD) testing at 50m intervals on one side only of roadways, i.e. one direction only, direction to be chosen by the FWD testing crew. In some specific sites Cork County Council will specify direction.
  - Provide Traffic Management.
  - Take, by means of cores (1 no. per site), samples of the existing road for the purpose of pavement design.
  - Prepare Level 1 (report on FWD results) and Level 2 (design of pavement requirements) reports for either of the following road construction options as will be instructed:
    - Pavement Overlay (of either granular, bituminous, or composite granular/ bituminous construction)
    - 'Cut Out and Replace' (of either granular, bituminous, or composite granular/ bituminous construction)
  - The Irish Analytic Pavement Design Method (IAPDM) software is to be used for the pavement design process for existing pavement overlay/strengthening, as per DN-PAV-03021. Pavement designs to be carried out using the IAPDM web-based software, allowing for the assessment and evaluation of existing pavement data and the determination of a suitable pavement overlay/strengthening intervention.
  - Pavement design life is to be 20 years.
  - Submit the final report in electronic format.

- The FWD testing, processing, and reporting must be carried out in accordance with:
  - **AM-PAV-06050 Pavement Assessment, Repair and Renewal Principles** as may be updated
  - **UK DMRB HD 29/08 Data for Pavement Assessment** as may be updated (this also includes GPR testing)
  - **DOE Guidelines on the Depth of Overlay to be Used on Rural Non-National Roads, March 2014** as may be updated**.**
  - the FWD testing procedure should follow the guidelines as described in the **TII Guidelines for the use of the Falling Weight Deflectometer in Ireland, CC-GSW-04008,** as may be updated.
- The FWD must have an up-to-date calibration certificate.
- The FWD must have a current certificate of correlation from the Highways Agency or equivalent.
- The FWD data must be both chainage and geo-referenced.

The Service Provider is to provide traffic management and shall liaise with Cork County Council Regional and Local Road Design Office for the duration of the project.

The Regional and Local Road Design Office will make available staff to assist the successful contractor in identifying the exact limits of the project locations.

The Service Provider should note that the delivery of the completed reports is required as soon as reasonably practicable, notwithstanding the requirements of Health & Safety obligations and the priority for safe execution of the survey.

Cork County Council proposes to appoint the qualifying Service Provider whose tender is assessed as the Most Economically Advantageous based on price. Cork County Council does not bind itself to accept the lowest or any tender.

All works are to be carried out and all reports received by Cork County Council by 31st March 2027

Submission of Tenders: -

Tenderers should submit a tender, comprising of

- Completed Suitability Assessment Questionnaire
- Completed Form of Tender & Schedule
- Pricing Document

Tenders shall be submitted not later than 12.00 hours (noon) on Tuesday 8th December 2026 via the eTenders electronic tender facility.

Pricing Document.

Item	Unit	Quantity	Amount (€) (exclusive of VAT)
Undertake Role of Project Supervisor Construction Stage for the below listed FWD Services	**xxxxx**	**xxxxx**	**€**_____
FWD Survey (including taking 1 No. core per site) and Reports/Designs for road lengths yet to be listed in a Schedule. Total length 105 km. Average length of site 1 km. (see page 2 of this document for further information on this item)	**No. of Sites**	**105**	**€**_____
FWD Survey (including taking 1 No. core per site) and Reports/Designs for road lengths yet to be listed in a Schedule. Total length 60 Km. Average length of site 2 km or greater. (see page 2 of this document for further information on this item)	**No. of Sites**	**30**	**€**_____
Additional Core on site. Locations to be agreed with Cork County Council	**No. of Cores**	**35**	**€**_____

Total Amount Exclusive of VAT			**€**_____
Add 23% for VAT			**€**_____
Total Tender Inclusive of VAT			**€**_____

Signed: _____

Name of Service Provider: _____

Address of Service Provider: _____

_____

_____

_____

Phone No. _____

Date: _____

Appendix 1

Map of Cork Municipal Districts

Cork County Municipal Districts

