



BENCHMARK
ENGINEERING SOLUTIONS



Benchmark Engineering Solutions

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ABOUT US

To create a well organized and managed infrastructural world, Benchmark Engineering Solutions is originated by experienced post graduates who are alumni of various premier institutes around the world and are pioneer in their respective fields.

We offer high quality consulting services primarily in the field of Transportation Engineering and its allied sectors. We have experienced competent and dedicated team of professional staff with sound knowledge and skills.

Our efforts meet the customer's total needs and their expectations, on time with high standard of professionalism.

OUR VISION

To become Nation's leading Recognized and Pioneer Testing & Research Service Provider

OUR MISSION

Our mission is to provide excellent and prompt testing services for organizations and to be known for its high quality standards and services with total customer satisfaction.

OUR VALUES

- Business Ethics and Integrity
- Respect time value and expectation of all associates
- Agile Work Culture
- Building trustworthy relationship with customers, stakeholders and society



ADVANCE TESTING

■ Falling Weight Deflectometer (FWD) Survey & Pavement Design:

A Falling Weight Deflectometer (FWD) is an impulse generating device with a guide system to evaluate the physical property of pavement. The resulting load- deflection data can be interpreted through appropriate analytical back calculation techniques, to estimate the elastic moduli of the pavement layers. Furthermore, using IRC 115, IRC 37 and IRC 117 codes the FWD data is primarily used to estimate pavement structural capacity for:

- Overlay Design
- To estimate in-service & Remaining Life of Pavement.



Our FWD Specifications

LOAD PULSE:

Peak load range: 10 – 80 kN

Rise time: 12 ms-15

Number of drop heights: 4

LOADING PLATE:

Type: 4 segments with individual tilt and individual vertical movement

Size: 300 mm diameter

Rubber under plate: 32 mm ribbed

CAPACITY:

Time to make one standard test: 25 s

LOAD MEASUREMENT:

Precision: $\pm 1\% \pm 10$ kgf

Accuracy: $\pm 2\% \pm 15$ kgf

DEFLECTION MEASUREMENT:

Range: 2 mm

Precision: $\pm 1 \mu\text{m} \pm 1\%$

Accuracy: $\pm 2 \mu\text{m} \pm 2\%$

Number of sensors: 9

Sensor positions:

0, 200, 300, 450, 600, 900, 1200,

1500 and 1800 mm

from load center





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