LABORATORIES, TESTING AND MONITORING

Laboratory testing and field monitoring

Soil, water and environmental testing laboratories



CONCEPT ILLUSTRATION

TDAC operates in-house soil, water and environmental testing laboratories. Laboratory evidence, instrumentation and monitoring support engineering assessment, environmental review and construction decisions.

02 / LABORATORY SERVICES

In-house laboratories with engineering context

Testing is a core TDAC service, connected to technical interpretation.

Soil and geotechnical laboratory

In-house soil testing to support ground characterisation, parameter evaluation and engineering assessment.

Water testing laboratory

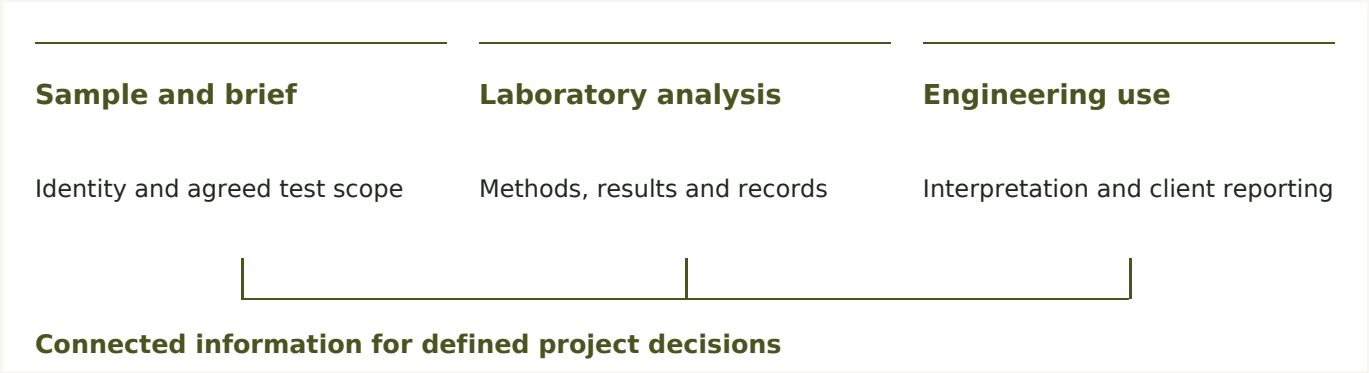
Water analysis for the agreed project purpose and water-quality parameters, with laboratory records and reports.

Environmental testing laboratory

Environmental sample testing and project datasets to support environmental assessment and technical review.

Laboratory development

Planned expansion will add advanced equipment and strengthen data capture, laboratory records and reporting workflows.



ILLUSTRATIVE SERVICE RELATIONSHIP

A defined test programme

Agree sample types, the engineering or environmental question, methods, parameters, reporting requirements and programme before work begins.

03 / FIELD SERVICES AND OUTPUTS

Measurements and results that clients can use

Laboratory testing and field observations linked to their project purpose.

Service	Client purpose	Representative outputs
Soil laboratory testing	Ground characterisation and parameter evaluation.	Laboratory results and engineering interpretation.
Water and environmental testing	Project-defined sample analysis and assessment.	Results records, parameter tables and test reports.
Instrumentation and monitoring	Ground or structural response during works or asset use.	Layouts, baseline records, readings and trend plots.
Integrated reporting	Combine results with the engineering and environmental context.	Technical summaries, review findings and project datasets.

Instrumentation and monitoring

Plan locations, baseline requirements, reading frequency and review criteria. TDAC and appointed partners provide the agreed installation, readings and technical interpretation.

Sectors and delivery

Own laboratory services and supplementary partner resources support transport, buildings, marine and offshore infrastructure, oil and gas, heavy industry, water and utilities.

04 / LEADING FROM THE FRONT

Leading from the front

Experienced leadership across TDAC's collaborating disciplines.

Name	Role	Experience
Jayakrishnan Menon	Chief Engineer	19 years
Komal H Davra	Environmental Engineer	19 years
Niya Merin Zachariah	Lead Geotechnical Engineer	10 years
Peter Chacko	Structural Lead	17 years
Ar. Anoopa Alex	Chief Architect	18 years
Karthik Raj	Project Management and Compliance	17 years
Gokul G	Chief Software Architect	18 years

Ar. Anoopa Alex is registered with the Council of Architecture, India.

Working as one team

Laboratory and field teams work with engineering, environmental and digital specialists to provide the agreed testing records, interpretation and reporting package.

TDAC in India and the United Kingdom

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