Your requirement is an

Environmental Impact Assessment Pre-feasibility study/ Feasibility study Integrated Pollution Control (IPC) Licensing Clean Water Act permit

Environmental Protection License Industrial Water Quality Assessment Invasive Species Study Wetland Delineation

Our hands-on approach is always available in helping you to find the best solution for your project within the regulatory tools and scientific norms. We assist you in obtaining your project permits/licenses and keep your project on schedule as our laboratory provides the latest techniques and facilities to accomplish every task at one door step saving your valuable time and money.

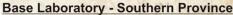
Contact Us....

Main Laboratory - Colombo

CECB Laboratory Services No.11, Jawatta Road. Colombo 05, Sri Lanka. Tel: +94 112 598 215

Fax: +94 112 598 215 E-mail: cecblab@gmail.com

Web : www.crdcecbsl.lk



CECB Laboratory Services Southern Province No.20, Godakanda Road, Karapitiya, Galle, Sri Lanka. Tel: +94 91 494 6036

Fax: +94 91 438 1494

E-mail:cecblssp@gmail.com

Our Project Laboratories

Digana

Engineering Geology & Site Investigation Unit Digana Village, Rajawella, Digana, Sri Lanka, Tel: +94 81 237 6320

Fax: +94 81 237 6320 E-mail: cecbgeo@yahoo.com



Badulla

CECB Laboratory Services 37/2A, Bandaranayake Mawatha. Badulla, Sri Lanka.

Tel: +94 55 2222706 Fax: +94 55 2222706 E-mail: cecblab@gmail.com

Head Office

CENTRAL ENGINEERING CONSULTANCY BUREAU 415, Bauddhaloka Mawatha, Colombo 07, Sri Lanka.

Tel: +94 11 266 8800 / +94 11 266 8847 Fax: +94 11 268 7369

E-mail:cecbgen@slt.lk, cecb@cecbsl.com

Web: www.cecbsl.com



Laboratory Services In Ampara

The newly established Ampara Laboratory is one of our prized entities, which is to be introduced at the forefront for the development of the South-East. We as a consultancy service provider want to improve the quality concepts of the engineering works, thereby improving safety concepts, assurance and reliability of the laboratory tests, and to provide a more confident output which would forge long term sustainability. This step is also taken to create awareness and encourage the concepts of Laboratory Services in the society.



CECB Laboratory Services













Understanding the requirements of proper guidance and professional knowledge in environment related projects, the CECB Laboratory Services has initiated modern Environmental Monitoring & Testing facilities now meeting international standards. We provide consultancy services and technical advice for both natural and industrialized areas. The continuous Research programmes conducted in our laboratory are focused on current environmental issues.

CECB Laboratory Services South-East

CENTRAL ENGINEERING CONSULTANCY BUREAU

EPC - South East, Sri Rathana Mawatha, Ampara, Sri Lanka.

Tel: +94 632 222 434 Fax: +94 632 222 439

E-mail: cecblabse@gmail.com

Testing facilities available in Ampara laboratory

Concrete, Cement & Aggregate Testing Facility

Fresh Concrete Testing

Mix Design for G15/G20/G25/G30/G35/G45 Slump Cone Test (BS 1881:part 102)

Flow Table (BS 1881:part 105)

Temperature Monitoring (BS 1881-130) Bulk Density Measurement (ASTM C642-97)

Cement Blocks & Paving Blocks Testing

Compressive Strength of Cement Block - 4",6",8" (SLS 855 (part 2): 1989)

Compressive Strength of Paving Blocks (BS 6717-1-1983)

Testing of Hardened Concrete

Concrete Coring (50mm,60mm,100mm) (BS1881:Part44 & BS 6089:1981)

Compressive Strength of Concrete Cubes & Cores (BS 1881 : Part 120)

Ultra Sound Pulse Velocity Meter (BS 1881-203)

Aggregates Testing

Aggregate Crushing / Impact Value - BS 812 Alkali-Silica Reactivity of Aggregates - ASTM C 289 Bulk Density of Aggregates

Clay Lumps & Friable Particle - ASTM C 142-97

Clay Silt & Dust Content - BS 812 : Part 1 : 1975

Elongation / Flakiness Index - BS 812

Los Angeles Abrasion Value Test - ASTM C 131-06

Point Load Index - ASTM D 5731-08

Organic Impurities of Aggregates - ASTM C 40 Rock fill Max./Min. Density - ASTM C 29 - 29M

Sieve Analysis(Unwashed) - BS 882: 1992

Specific Gravity & Water Absorption-ASTM C 127-07

Soil / Rock Testing Facility

Physical Parameters (Soil)

Atterberg Limits (LL,PL) - ASTM D 4318

Bulk Density - BS 1377 Part2: 1990

California Bearing Ratio (CBR) - ASTM D 1883-87. BS 1377 Part 4: 1990-2007, AASHTO T 193-2007

Crumb Test - ASTM D 6572-06

Hydrometer Analysis - ASTM D 421 / D 422

Moisture Content - ASTM D 2216

Sieve Analysis - ASTM D 421 / D 422

Specific Gravity of Soil - ASTM D 854

Proctor Compaction Test (Standard/ Modified)

- ASTM D 698-78,1990

Swelling Test - BS 1377 Part 2: 1990

In-Situ Soil Testing & Sampling

DS/UDS Sampling & Augur Boring up to 5m

Field Density - ASTM D 1556-82

Plate Bearing Test - ASTM D 1194-94

Dynamic Cone Penetration (DCPT) - ASTM D 695

Field CBR - ASTM D 4429

Rock fill Max./Min. Density















Additional testing facilities available in Colombo & Galle laboratories

Environmental Monitoring & Testing Facility

Air Quality Monitoring & Testing (ASTM Method)

Use of advanced Major Scale instruments; High Volume Samplers Low Volume Samplers, CO analyzer, O3 Analyzer allowing the

testing facility of

Particulate Matter - PM . , PM ...

CO content, O. Content (in-situ analysis)

SO, NO, content

Noise & Vibration Testing (BS / ISO Methods)

Noise Monitoring Vibration Monitoring

Water Quality Testing (ASTM/APHA/USEPA/USGS Methods) pH, Acidity or Alkalinity, Turbidity

Cl, SO₄², CO₄², HCO₃, NO₃, NO₃, PO₄³ contents

Electrical Conductivity COD. BOD

Total Dissolved Solids

Total Hardness, Total Oil & Grease Total Phosphate

Bacteriological Analysis (SLS Method)

E.coli & Coliform Testing

Concrete, Cement & Aggregate Testing Facility

Cement Physical Testing

Abrasion Resistance Test (BS EN 13892-3 (2004) Part 3) Compressive /Flextural Strength of Cement (SLS ISO 679: 2008)

Initial & Final Setting Time (SLS ISO 679:2008)

Determination of Soundness (BS EN 196-3)

Cement Motar Cube Strength (ASTM C-109/ C109m

Cement Blocks & Paving Blocks Testing

Abrasion Resistance of Paving Blocks(SLS 39:1978)

Testing of Hardened Concrete

Schmidt Hammer Test (Rebound Hammer Test) (ASTM C805) Bar Spacing/Cover Detection using Cover Meter (BS 1881204) Coring of 50mm/100mm Diameter Cores(BS 1881:Part 44 & BS 6089:1981)

Carbonation Depth Determination (BS EN 14630 : 2006) Concrete Permeability Test (DIN 1048 : Part5)

Concrete Abrasion Test (BS EN 13892-3:2004)

Concrete Water Absorption Test (BS 1881-120:1983)

Flextural Strength Beam (BS 1881-118) Indirect Tensile Strength (ASTM D - 3967-2008)

Aggregates Testing

Aggregate Soundness Test - ASTM C 88,BS 812:121,AASHTO T-104

Brazilian Test (Soaked/Unsoaked) - ASTM D 3967-08 Chloride Content (Water/Acid Soluble)- BS 812:117 Sulphate Content (Water/Acid Soluble) - BS 812:118

Sand Vibration Proctor (Single Point) - BS 1377 : part 4 : 1990

Slake Durability Test - ASTM D 4644



Advanced Soil / Rock Testing Facility

The soil/earth that we stand on is the one source that holds everything together, from the tiniest plant to the large trees, from the houses we live in, to the skyscrapers and mega structures that we take great pride in creating. Hence the importance of understanding the soil we live on is an essential part in any sort of construction work that is to be carried out.

Shear Strength & Consolidation Parameters of Soil

Consolidation Test - BS 1377 Part 5: 1990 C U Triaxial Compression Test (with PWP- Measurem 50mm,70mm,100mmØ samples) - BS 1377 Part 7: 1990 U U Triaxial Compression Test(Soil)

(50mm, 70mm, 100mm) - BS 1377 Part 7: 1990

Unconfined Compression Test - ASTM D7012-07 Direct Shear Test - BS 1377 Part 7: 1990

Triaxial Permeability - BS 1377 Part 7: 1990

Shear Strength, Elastic Modules & Poisson's Ratio in Rocks

Rock Triaxial Test -ASTM D 7012-07 Unconfined Compressive Strength, with Poisson's Ratio & Young's Modules - ASTM D 7012-07 & ASTM D 2938-79

Uniaxial Compressive Strengths- ASTM D 2938 (50mm, 70mm, 100mm)

Physical Parameters (Soil)

Shrinkage Limit Test - BS 1377 Part 2: 1990 Soil Permeability - constant head & falling head Method ASTM D 2434, BS 1377 Part 5: 1990 Triaxial Permeability - BS 1377 Part 6: 1990

Pinhole Test - BS 1377 Part 5: 1990, ASTM D 4647-06

Chemical Parameters (Soil)

pH - BS1377 :Part-3 :1990

Chloride Content W/A - BS1377 :Part-3 :1990 Sulphate Content W/A - BS1377 :Part-3 :1990 Mass Loss on Ignition - BS1377 :Part-3 :1990

Organic Matter Content - BS1377 :Part-3 :1990 Carbonate Content - BS1377 :Part-3 :1990







