CECB Laboratory Services......

At CECB Laboratory Services we are equipped to perform traditional laboratory testing for projects in different geographical areas across Sri Lanka. Our highly trained Engineers are more than capable of conducting a range of tests, whether it be soil testing, aggregate testing, concrete testing, cement testing, asphalt testing or testing of clay bricks. Now laboratories are located throughout the country to provide quality laboratory testing in Colombo, Digana, Badulla, Monaragala, Anuradhapura, and Galle.

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



Base Laboratories

Galle

CECB Laboratory Services Southern Province No.20, Godakanda Road, Karapitiya, Galle, Sri Lanka.

Tel: +94 91 494 6036 +94 91 493 0935

Fax: +94 91 438 1494 E-mail:cecblssp@gmail.com

Ampara

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

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

E-mail: cecblabse@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. Bandaranavake Mawatha.

Badulla, Sri Lanka. : +94 55 2222706

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

"An Investment in Knowledge Pays the Best Interest."

Benjamin franklin

Chemical & Environmental Laboratory

Sri Lanka is one of the world's biodiversity hot spots. The need to preserve and protect the environment is therefore of utmost importance. In view of this CECB has taken the initiative as a government body to establish and implement the Chemical and Environmental Laboratory Services Unit to fulfill the verification needs of construction and industry related environmental issues in accordance to the regulations stipulated by the Central Environmental Authority. At present our main involvements include investigations in Kalu Ganga and Uma Oya Projects. We have also conducted a wide variety of EIA, IEE and Feasibility Studies both locally and internationally.

These Include:

- Joint Research and Consultancy Services for the Establishment of Alternative Road Construction Processes Using Coral-limestone Base Soil Materials at the Republic of Maldives
- EIA on ATGS Waste to Energy Project at Karadiyana Municipal Waste Dumping site
- IEE of the Proposed Badulla, Ella and Hali Ella Integrated Water Supply Scheme.
- Social and Environmental Assessment (SEA) for the Nyamwamba Small Hydropower Project, Uganda.
- Feasibility Study for 'Proposed Kurunegala-Habarana Railroad Project'
- EIA Studies for : Proposed MahagonaWewa Irrigation Project, Kolonna Water Supply Scheme (2012), Morana Reservoir Project in Badulla District (2012), KalugalOya Reservoir Project in Ampara District (2012),
- IEE studies carried out under the ADB funded Conflict Affected Region Emergency (CARE) Project.
- Construction Project of Ministry of Defence & Three Forces Head Quarters at Akuregoda

We at Chemical and Environmental Laboratory Services are well equipped and geared to cater for the environmental verification needs of the country in its current infrastructure development movement. We strive to excel in providing proper verification and assurance to support environmental compliance thereby ensuring a healthy environment for a better tomorrow.



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

CECB Laboratory Services







Chemical & **Environmental** Laboratory



CECB Laboratory Services CENTRAL ENGINEERING CONSULTANCY BUREAU No.11, Jawatta Road, Colombo 05, Sri Lanka.

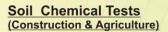
> Tel: +94 112 598 215 Fax: +94 112 598 215 E-mail: cecblab@gmail.com Web : www.crdcecbsl.lk

Chemical & Environmental Testing

About Us.....

CECB Laboratory, located in Jawatta, Colombo 05, is a major sub unit of CECB, an institution under the Ministry of Mahaweli Development and Environment. The Chemical & Environmental Laboratory Services established under CECB Laboratory undertakes a range of sample testing for diverse projects, both local and foreign. Environmental chemists operate state-of-the-art analytical instrumentation, testing to government, regulatory, and industry standards. Our core values include:

Scientific Integrity Workplace Diversity Intellectual Honesty Courtesy



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

Aggregate Chemical Tests (Construction)

Chloride Content W/A - BS 812 :Part-117
Sulphate Content W/A - BS 812 :Part-118
Soundness of Aggregate - BS 812 :Part-121 / ASTM C 88 / AASHTO T 104
Potential Alkali - Silica Reactivity of Aggregate - ASTM C 829
Organic Impurities in Fine Aggregate - ASTM C 40
Insoluble Residue in Carbonate Aggregate - ASTM D 3042
Acid Soluble Material in Fine Aggregate - BS 812 :Part-118
Light Weight Particles in Aggregate - ASTM C 123



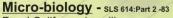


Water Quality (Construction/Drinking/Waste Water)

PH-ASTM D 1293
Electrical Conductivity - APHA-2510-B
Turbidity - USEPA 180.1
Chloride Content - ASTM D 512-04
Sulfate Content - ASTM D 516
Carbonate Content - USGS Method
Bicarbonate Content - USGS Method
Total Hardness - APHA-2340-C, USEPA 130.1 & 130.1
Acidity or Alkalinity - ASTM D 1076, APHA 2310
Total Dissolved Solids (TDS) - APHA-2540-C
Total Suspended Solids (TSS) - APHA-2540-D

Total Solids (TS) - APHA-2540-B Biochemical Oxygen Demand (BOD) - APHA-2510-B Chemical Oxygen Demand (COD)

Chemical Oxygen Demand (COD)
- APHA-5220-B , USEPA 410.1 & 410.2
Total Oil & Grease - USEPA 413.1
Total Phosphate - ASTM 4500-P
Nitrate - ASTM 4500-NO, B



Fecal Coliforms (e.coli) Total Coliforms

Air Quality

Particulate Matter PM10 - ASTM D 4096-91 (2009)
Particulate Matter PM2.5 - ASTM D 4096-91 (2009)
Ozone Content - ASTM D 5156-02 (2008)
Carbon Monoxide Content - ASTM D 3162-12 (2012)
Sulfur Dioxide Content (SO_x) - ASTM D 2914-01 (2007)
Nitrogen Dioxide Content (NO_x) - ASTM D 1607-91 (2011)
ASTM D 3608-95 (2011)

Including.....
Atmospheric Temperature,
Atmospheric Pressure, Humidity, Wind Speed,
Wind Direction

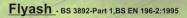


Noise & Vibration

Noise Level Monitoring - ISO 1996(part1,part2) & BS 4142:1997 Vibration Level Monitoring - ISO 4866:1990

Cement - SLS 107 :Part 2 :2008 / ASTM C 114-10

Loss on Ignition
Insoluble Residue
Silicon Dioxide Content (SiO₂)
Aluminum Oxide Content (Al₂O₃)
Iron Oxide Content(Fe₂O₃)
Calcium Oxide Content(CaO)
Magnesium Oxide Content(MgO)
Chloride Content (Cl')
Sulphate Content (SO₄²)
Lime Saturation Factor
C3A, C2A, C4AF,C3S



Moisture Content
Loss on Ignition
Insoluble Residue
Silicon Dioxide Content
Aluminum Oxide Content
Iron Oxide Content
Calcium Oxide Content
Magnesium Oxide Content
Sulphur Trioxide
Sodium Oxide Content
Potassium Oxide Content
Available Alkali













