



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 18/08/2020
Rev. No: 09
LAB 360

Accreditation No: LAB 360

Awarded to

**CIVEX Engineering Lab. Tabuk,
Saudi Arabia.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **03-03-2026** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **02-03-2029**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

03-03-2026

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Director General



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Testing Laboratory.

Accreditation Scope of M/s **CIVEX Engineering Lab. Tabuk, Saudi Arabia.**

Permanent laboratory premises

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
Soil	Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis	Particle size distribution, % retained, % passing, gradation curve	"ASTM D6913/D6913M-17 BS 1377-2 / BS EN ISO 17892-4"
Soil	Standard Test Methods for Determining the Amount of Material Finer than 75- μ m (No. 200) Sieve in Soils by Washing	Material finer than 75 μ m (% by washing)	"ASTM D1140-25 BS 1377-2 / BS EN ISO 17892-4"
Soil	Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method	In-place density, unit weight, degree of compaction	"ASTM D1556/D1556M-24 BS 1377-9"
Soil	Standard Test Method for In-Place Density (Unit Weight) and Water Content of Soil Using an Electromagnetic Soil Density Gauge	In-place density & moisture content (EM gauge)	ASTM D7830/D7830M-25
Soil	Standard Test Method for California Bearing Ratio (CBR) of Laboratory-Compacted Soils	California Bearing Ratio (CBR), load-penetration curve	"ASTM D1883-21 BS 1377-4 "
Soil	Standard Test Method for Sand Equivalent Value of Soils and Fine Aggregate	Sand equivalent value (cleanliness of fines)	"ASTM D2419-22 BS EN 933-8"
Soil	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass	Moisture content (%)	"ASTM D2216-19 BS 1377-2 / BS EN ISO 17892-1"
Soil	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils	Liquid limit, plastic limit, plasticity index	"ASTM D4318-17e1 BS 1377-2 / BS EN ISO 17892-12"
Soil	Standard Test Methods for Specific Gravity of Soil Solids by the Water Displacement Method	Specific gravity of soil solids	"ASTM D854-23 BS 1377-2 / BS EN ISO 17892-12"

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Soil	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft ³ (2,700 kN-m/m ³))	Maximum dry density & optimum moisture (Modified Proctor)	"ASTM D1557-12(2021) BS 1377-4"
Soil	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft ³ (600 kN-m/m ³))	Maximum dry density & optimum moisture (Standard Proctor)	"ASTM D698-12(2021) BS 1377-4"
Soil	Plate Load Test (Non-Repetitive Static Plate Load Test) for Soils and Flexible Pavement Components	Plate bearing capacity, modulus of subgrade reaction (k-value)	"ASTM D1194 / D1195 / D1196/D1196M-24 BS 1377-9 / BS 5930"
Soil	Standard Test Methods for Measurement of Hydraulic Conductivity of Coarse-Grained Soils	Coefficient of permeability (k)	"ASTM D2434-22 BS 1377-5 / BS EN ISO 17892-11"
Soil	Standard Test Method for Determining Density of Construction Slurries	Density of construction slurry	"ASTM D4380-20 BS 1377-9 "
Soil	Standard Test Methods for One-Dimensional Consolidation Properties of Soils Using Incremental Loading	Consolidation parameters (Cc, Cv, mv, settlement)	"ASTM D2435/D2435M-25 BS 1377-5 / BS EN ISO 17892-5"
Soil	Standard Test Methods for One-Dimensional Swell or Collapse of Soils	Swell potential / Collapse potential (%)	"ASTM D4546-21 BS 1377-5 / BS EN ISO 17892-5"
Soil	Chloride Content in Soil	Chloride ion content (mg/kg)	ASTM D4327 BS EN ISO 10304-1
Soil	Standard Test Methods for Determining the Water (Moisture) Content, Ash Content, and Organic Material of Peat and Other Organic Soils	Organic content, ash content (%)	ASTM D2974-25e1 BS 1377-3
Soil	Standard Test Methods for Maximum Index Density and Unit Weight of Soils and Calculation of Relative Density	Maximum index density & relative density	ASTM D4253-16(2021) BS 1377-4
Soil	Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	Minimum index density & relative density	ASTM D4254-16(2021) BS 1377-4

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Soil	Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)	Soil classification (USCS)	ASTM D2487-17/ASTM D3282 / ASHTO M145 / BS EN ISO 14688-1 & 14688-2 /BS 5930
Soil	Standard Practice for Correction of Unit Weight and Water Content for Soils Containing Oversize Particles	Oversize correction for density & moisture	ASTM D4718/D4718M-15(2023) BS 1377-4
Asphalt	Standard Practice for Sampling Asphalt Mixtures	Sampling of asphalt mixtures	ASTM D979/D979M-22 / BS EN 12697-27
Asphalt	Standard Test Methods for Quantitative Extraction of Asphalt Binder from Asphalt Mixtures	Bitumen content (%) by extraction	"ASTM D2172/D2172M-24 BS EN 12697-1 // BS EN 12697-2 "
Asphalt	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	Flash point & fire point (°C)	"ASTM D92-24 BS EN ISO 2592"
Asphalt	Standard Test Method for Bulk Specific Gravity and Density of Non-Absorptive Compacted Asphalt Mixtures	Bulk specific gravity (Gmb)	"ASTM D2726/D2726M-21 BS EN 12697-6"
Asphalt	Standard Test Method for Theoretical Maximum Specific Gravity and Density of Asphalt Mixtures	Maximum theoretical specific gravity (Gmm)	"ASTM D2041/D2041M-19 BS EN 12697-5"
Asphalt	Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)	Softening point (Ring & Ball)	"ASTM D36/D36M-14(2020) BS EN 1427"
Asphalt	Standard Test Method for Percent Air Voids in Compacted Asphalt Mixtures	Air voids (%)	"ASTM D3203-22 BS EN 12697-8"
Asphalt	Standard Practice for Sampling Compacted Asphalt Mixtures for Laboratory Testing	Sampling of compacted asphalt cores	"ASTM D5361/D5361M-16(2022) BS EN 12697-27 / BS EN 12697-28"
Asphalt	Standard Test Method for Thickness or Height of Compacted Asphalt Mixture Specimens	Thickness / height measurement of compacted asphalt Core (mm)	"ASTM D3549/D3549M-18(2023) BS EN 12697-36 "
Asphalt	Standard Practice for Preparation of Asphalt Mixture Specimens Using Marshall Apparatus	Marshall specimen preparation (compaction blows, specimen dimensions, density preparation)	"ASTM D6926-20 BS EN 12697-30"

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Asphalt	Standard Test Method for Marshall Stability and Flow of Asphalt Mixtures	Marshall stability (kN) & flow (mm)	"ASTM D6927-22 BS EN 12697-34"
Asphalt	Standard Test Method for Viscosity Determination of Asphalt at Elevated Temperatures Using a Rotational Viscometer	Rotational viscosity (Pa·s)	"ASTM D4402/D4402M-23 BS EN 13302"
Asphalt	Standard Test Method for Kinematic Viscosity of Asphalts	Kinematic viscosity (mm ² /s)	"ASTM D2170/D2170M-24 BS EN 12595 "
Asphalt	Standard Test Method for Ductility of Asphalt Materials	Ductility (cm)	"ASTM D113/D113M-17(2023)e1 BS EN 13398 "
Asphalt	Standard Practice for Estimating Application Rate and Residual Application Rate of Bituminous Distributors	Application rate (L/m ²)	ASTM D2995-23
Asphalt	Standard Test Method for Effect of Moisture on Asphalt Mixtures	Moisture susceptibility, tensile strength ratio (TSR), retained strength (%)	"ASTM D4867/D4867M-22e1 BS EN 12697-12"
Asphalt	Standard Test Method for Specific Gravity and Density of Semi-Solid Asphalt Binder (Pycnometer Method)	Specific gravity, density of semi-solid asphalt (g/cm ³)	"ASTM D70/D70M-21 BS EN 15326 "
Asphalt	Standard Practice for Measurement of Wet Film Thickness by Notch Gages	Moisture susceptibility / TSR (%)	"ASTM D4414-25 BS EN ISO 2808"
Asphalt	Standard Test Method for Penetration of Bituminous Materials	Penetration value (0.1 mm)	ASTM D5/D5M-20
Asphalt	Standard Test Method for Solubility of Asphalt Materials	Solubility in trichloroethylene (%)	"ASTM D2042-25 BS EN 12592 "
Asphalt	Standard Test Method for Mechanical Size Analysis of Extracted Aggregate	Mechanical sieve analysis of extracted aggregate, gradation curve	"ASTM D5444-24 BS EN 933-1"
Asphalt	Standard Test Method for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers	Dry film thickness measurement (μm) using micrometer	"ASTM D1005-95(2020) BS EN ISO 2808"

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Asphalt	Thermoplastic Traffic Marking Material Specification	Softening point, flow resistance, luminance, color, binder content, retroreflectivity (as applicable)	"ASHTO M249 BS EN 1871"
Concrete	Standard Test Method for Slump of Hydraulic-Cement Concrete	Slump (mm)	"ASTM C143/C143M-20 BS EN 12350-2 "
Concrete	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	Compressive strength – cylinder (MPa)	ASTM C39/C39M-24
Concrete	Compressive strength of test specimens (Concrete Cubes)	Compressive strength – cube (MPa)	BS EN 12390-3
Concrete	Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method	Air content (%)	"ASTM C231/ C231M-25 BS EN 12350-7 "
Concrete	Standard Test Method for Time of Setting of Concrete Mixtures by Penetration Resistance	Initial & final setting time	ASTM C403/ C403M-23
Concrete	Standard Test Method for Rebound Number of Hardened Concrete	Rebound number (surface hardness)	"ASTM C805/ C805M-25 BS EN 12504-2 "
Concrete	Testing Concrete – Recommendations for the Determination of the Initial Surface Absorption of Concrete (ISAT)	Initial Surface Absorption (ISAT), water absorption rate (ml/m ² /s)	BS 1881-208
Concrete	Standard Test Method for Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration (RCPT)	Rapid chloride permeability (coulombs)	"ASTM C1202-25 BS EN 12390-11"
Concrete	Standard Test Method for Slump Flow of Self-Consolidating Concrete	Slump flow diameter (mm), T50 flow time (sec)	ASTM C1611/ C1611M-21
Concrete	Depth of penetration of water under pressure (WP)	Water penetration depth (mm)	BS EN 12390-8
Concrete	Testing of concrete — Part 12: Determination of the carbonation resistance of concrete — Accelerated carbonation method	Carbonation depth (mm), accelerated carbonation resistance	ISO 1920-12



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Concrete	Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete	Density / Unit weight (kg/m ³)	"ASTM C138/ C138M-24a BS EN 12350-6"
Concrete	Standard Specification for Chemical Admixtures for Concrete	Compliance properties: density, chloride content, air entrainment, setting modification	"ASTM C494/ C494M-24 BS EN 934-2"
Concrete	Standard Test Methods for Chemical Analysis of Hydraulic Cement	Oxide composition (SiO ₂ , Al ₂ O ₃ , CaO, MgO), LOI, insoluble residue	"ASTM C114-24 BS EN 196-2"
Concrete	Standard Test Methods for Sampling and Testing Fly Ash or Natural Pozzolans for Use in Portland-Cement Concrete	Fineness, strength activity index, LOI, moisture content	"ASTM C311/C311M BS EN 450-1"
Concrete	Standard Practice for Making and Curing Concrete Test Specimens in the Field	Making & curing specimens (molding, curing temperature control)	"ASTM C31/ C31M-25b BS EN 12390-2"
Concrete	Standard Specification for Silica Fume Used in Cementitious Mixtures	SiO ₂ content, specific surface area, LOI	"ASTM C1240-20 BS EN 13263-1 "
Concrete	Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete	pH, chlorides, sulfates, total solids	"ASTM C1602/ C1602M-22 BS EN 1008"
Concrete	Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete	Temperature of fresh concrete (°C)	"ASTM C1064 /C1064M-23 BS EN 12350-9"
Concrete	Water Absorption of Hardened Concrete (WA)	Water absorption (%)	"ASTM C642 BS 1881-122: 2011 "
Concrete	Standard Test Methods for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes	Chemical resistance – strength loss, mass loss after exposure	ASTM C267-20
Concrete	Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	Core compressive strength (MPa)	"ASTM C42 /C42M-20 BS EN 12504-1 "
Concrete	Standard Practice for Capping Cylindrical Concrete Specimens	End preparation / capping of cylinders	"ASTM C617 /C617M-23 BS EN 12390-3 / BS EN 12390-2 "

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Concrete	Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Cylindrical Concrete Specimens	Use of unbonded caps for compressive testing	ASTM C1231 /C1231M-23
Aggregate	Standard Practice for Sampling Aggregates	Sieve analysis (gradation)	"ASTM D75 /D75M-19 BS EN 932-1 "
Aggregate	Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates	Sieve analysis, gradation curve	"ASTM C136 /C136M-25 BS EN 933-1"
Aggregate	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Coarse Aggregate	Specific gravity & absorption (coarse)	"ASTM C127-25 BS EN 1097-6"
Aggregate	Standard Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate	Specific gravity & absorption (fine)	"ASTM C128-25 BS EN 1097-6"
Aggregate	Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Los Angeles abrasion value (%)	"ASTM C131 /C131M-20 BS EN 1097-2"
Aggregate	Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	Los Angeles abrasion value (%)	"ASTM C535 -16(2024) BS EN 1097-2"
Aggregate	Standard Test Method for Clay Lumps and Friable Particles in Aggregates	Clay lumps & friable particles (%)	"ASTM C142 /C142M-17(2023) BS EN 933 series / EN 1744-1"
Aggregate	Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate	Flakiness / Elongation index (%)	"ASTM D4791-19(2023) BS EN 933-3 / BS EN 933-4"
Aggregate	Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	Material finer than 75 μ m by washing (%)	"ASTM C117-23 BS EN 933-1"
Aggregate	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	Soundness loss (%)	"ASTM C88 /C88M-24 BS EN 1367-2"

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Aggregate	Standard Test Method for Water-Soluble Chloride in Mortar and Concrete	Water-soluble chloride content	"ASTM C1218 BS EN 1744-1 "
Aggregate	Standard Test Methods for Uncompacted Void Content of Fine Aggregate (as Influenced by Particle Shape, Surface Texture, and Grading)	Uncompacted void content (%)	"ASTM C1252-23 BS EN 1097-3"
Aggregate	Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate	% fractured faces in coarse aggregate	"ASTM D5821 -13(2025) BS EN 933-5"
Aggregate	Standard Practice for Effect of Water on Asphalt-Coated Aggregate Using Boiling Water	Stripping resistance (boiling water test)	"ASTM D3625 /D3625M-20(2024) BS EN 12697-11"
Aggregate	Standard Test Method for Lightweight Particles, Shell content in Aggregate	Lightweight particles / shell content (%)	"ASTM C123 /C123M-23 BS EN 933-7"
Aggregate	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	Organic impurities (colorimetric comparison)	"ASTM C40 /C40M-20 BS EN 1744-1"
Aggregate	Standard Test Method for Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	Potential alkali reactivity (expansion %)	"ASTM C1260-23 BS EN 12617-4 "
Aggregate	Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate	Bulk density (kg/m ³), voids (%)	"ASTM C29 /C29M-23 BS EN 1097-3"
Water	Standard Test Methods for pH of Water	pH value	"ASTM D1293-18 BS EN ISO 10523"
Water	Standard Test Methods for Filterable Matter (Total Dissolved Solids) and Nonfilterable Matter (Total Suspended Solids) in Water	Total dissolved solids (TDS), suspended solids (TSS)	"ASTM D5907-18 BS EN 872 / ISO 11923"
Water	Standard Test Methods for Electrical Conductivity and Resistivity of Water	Electrical conductivity (μS/cm)	"ASTM D1125-23 BS EN 27888"
Water	Standard Test Methods for Chloride Ion in Water	Chloride ion (mg/L)	"ASTM D512-22 BS EN ISO 9297 / BS EN ISO 10304-1"
Water	Standard Test Method for Sulfate Ion in Water	Sulfate ion (mg/L)	"ASTM D516-22 BS EN ISO 10304-1"

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NDT	Standard Practice for Liquid Dye Penetrant Testing	Surface crack detection (liquid dye penetrant)	"E1417/E1417M-21e1 BS EN ISO 3452-1"
NDT	Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Coating Thickness Gage	Ultrasonic dry film thickness (μm)	"ASTM D6132 -13 BS EN ISO 16809"
NDT	Standard Guide for Preliminary Evaluation of Comparative Moisture Condition of Concrete, Gypsum Cement and Other Floor Slabs and Screeds Using a Non-Destructive Electronic Moisture Meter	Moisture condition evaluation using electronic moisture meter (comparative reading scale)	ASTM F2659-23
Grout	Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)	Flow cone time (seconds)	"ASTM C939 /C939M-22 BS EN 445"
Grout	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 50 mm [2 in.] Cube Specimens)	Compressive strength (MPa)	"ASTM C109/C109M-24 BS EN 196-1 BS EN 12190"
Rock	Standard Practices for Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	Specimen preparation & dimensional tolerance verification	ASTM D4543-19
Rock	Standard Test Method for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures - Unconfined Compressive Strength (UCS)	Unconfined compressive strength (UCS), modulus of elasticity, Poisson's ratio	ASTM D7012-23

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