

Choksi Laboratories Limited

Laboratory Facilities Guide - 2007

CLL – Laboratory Facilities Guide - 2006

- **CLL Company Profile**
- **Approvals**
- **Human Capital**
- **Instrumentation**
- **Quality System – ISO/IEC 17025 : 2005**
- **Mission**

CLL – Laboratory Facilities Guide - 2006

- **CLL Company Profile**

- CLL is public limited, BSE listed company.
- Established in 1982
- CLL came out with its IPO in 1993.
- Is completely independent contract (third-party) laboratory & research organization.

CLL Company Profile

- **Laboratory Network**

Indore – Corporate Office and Primary Laboratory Setup.

(Established 1982) **Lab Area - 17,000sq. ft.**

Labs – Pharmaceuticals, Agro, Building Materials, Calibration, Environment Lab Services

Panchkula – Branch Laboratory (Est. 2004) Lab Area - 8,000sq. ft.

Labs – Pharmaceuticals, Agro, Calibration

Vadodara – Branch Laboratory (Est. 1998) Lab Area - 8,000sq. ft.

Labs – Pharmaceuticals, Calibration, Water Analysis

Vapi – Branch Laboratory (Est. 2001) Lab Area - 9000 + 12500 sq. ft.

Labs – Pharmaceuticals, Calibration, Water Analysis, Clinical Research Center

CLL Company Profile

- **Sample Collection Network**

North - Delhi, Mohali (Chandigarh), Panchkula, Kanpur, Roorkee

East - Calcutta, Bhubaneswar

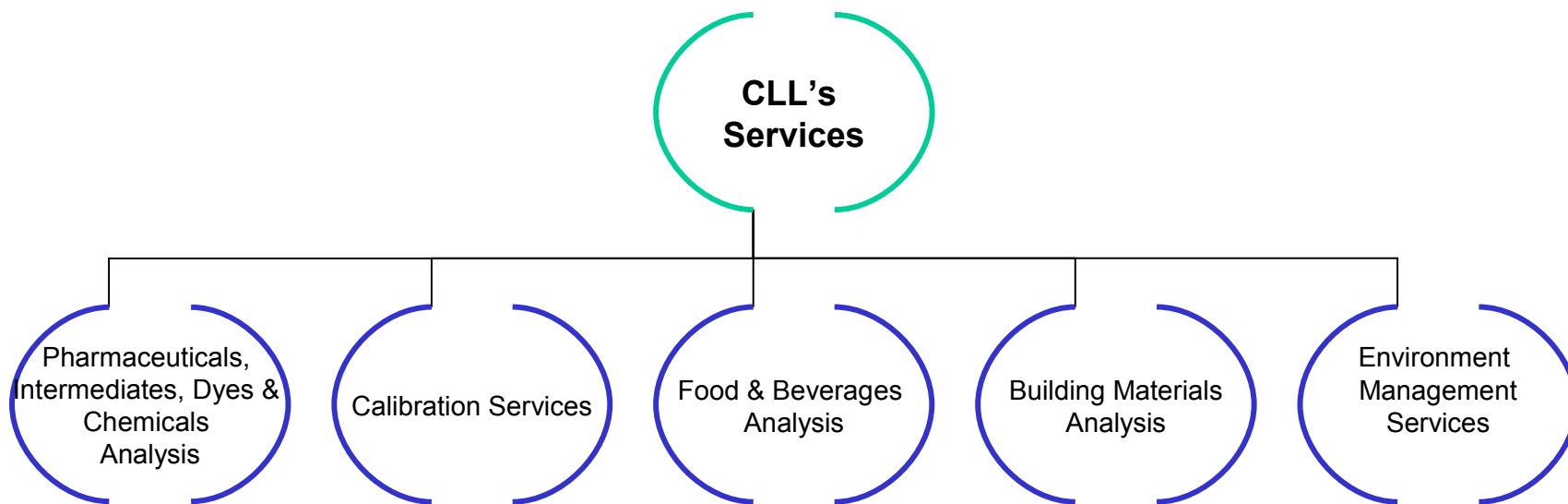
West - Ahemadabad, Rajkot, Vadodara, Vapi, Jaipur, Pune, Mumbai, Surat, Nashik, Goa

South - Bangalore, Hyderabad, Cochin

Central - Indore, Gwalior

CLL Company Profile

- **Services**



CLL Company Profile

- **Drugs & Chemicals Analysis**
 - **Wet Labs**
 - **Automated Instrumentation Labs**
 - **Microbiology Labs**
 - **Animal Labs**
 - **Consultancy**

CLL Company Profile

- **Drugs & Chemicals Analysis – Services Offered**
 - **Routine Quality Control Testing**
 - **As per IP/BP/USP/EP**
 - **As per ISM (for herbals or ayurvedic products)**
 - **Certification (Form 39) – FDA**
 - **Contaminant Residue Analysis**
 - **In-plant residue / bio-burden monitoring**
 - **Regulatory Affairs**

CLL Company Profile

- **Agro & Agro Derivatives Analysis – Products Analyzed**

Agro-chemicals analysis (including bio-pesticides)

Fertilizers (including bio-fertilizers)

Food-grains

Processed Food

Frozen / Dehydrated Fruits & Vegetables

Sea-food

Dairy Products

Meat & Poultry

Organic Food (for exports)

Essential Oils

CLL Company Profile

- **Agro & Agro Derivatives Analysis – Services Offered**

Nutritional Labeling

Proximate Analysis

FAME

Sugars

Amino-acid analysis

Microbiological Contamination

Toxic Metal Contamination

Shelf-Life Studies

Preservative Efficacy

Migration Testing (Containers, LDPE Films, Ceramic ware)

Bio-burden studies

HACCP Training

CLL Company Profile

- **Building Materials Analysis – Products Analyzed**

Cement, Aggregate, Sand

Bricks, Tiles

PVC, HDPE, MDPE films, pipes & fittings

Plywood & Resins

Paints

Steel Rods for Construction

Bitumen

CLL Company Profile

- **Building Materials Analysis – Services Offered**

Mechanical Testing

Mixed Design (Concrete)

Chemical Composition / Properties (Metals, Paints, Cement)

Durability Tests, Keeping-Property, Fastness to Light (Paints)

CLL Company Profile

- **Water Analysis**

Water for Construction Purpose

Water for Pharmaceutical Use

Water for Food Processing Industry

Water for Industrial Boilers

Water for Drinking Purpose (Potable, Bottled, or Mineral Water)

Waste-water analysis

Analysis Methods from IS, EPA, USGS, IP/BP/USP, APHA, AOAC and CLL's own validated In-house methods database).

CLL Company Profile

- **Environment Management Services**

Air & Stack Monitoring

ETP, STP design, construction and O&M

Soil Investigation (On-site / laboratory services)

Environment Impact Assessment

Consultancy on:

Industrial Waste Management

Hazardous Waste Management

ISO 14000

OSHA / ISO 18000

CLL Company Profile

- **Calibration Services**

Industrial Calibration

(Disciplines: Thermal, Electro-technical (Electrical, Speed, Timers), and Mechanical (Pressure, Force, Dimension))

Analytical Instrument Validation

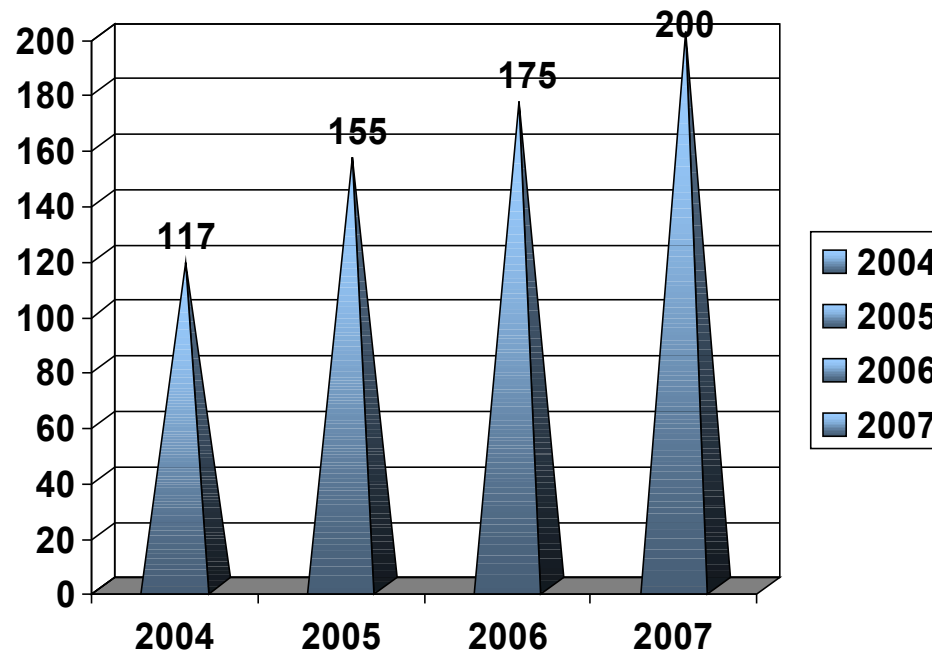
(HPLC, GC, PSA, Auto-claves, Conductivity Meters, FTIRs, pH Meters, AAS, Dissolution Testers etc.)

On-site services as well as laboratory services.

Primary Standards traceable to NPL (INDIA) or NIST (USA).

Human Capital

- **Staff Strength**



Note: Does not include contract employees on EMS sites

Approvals

CLL is approved by:

Bureau of Indian Standards

DGS&D, AGMARK

FDCA (India) & USFDA

Ministry of Environment & Forests

Export Inspection Council

Approvals

CLL is a Quality Partner to:

RITES

FCI

SOPA, SEA

Defense (MEs / GEs)

EIL

Customs

ISRO

CMO

MPLUN

ESI

Forensic Lab (GoI)

CAT (BARC)

Instrumentation

- **Set-up ...1**

35 HPLCs (MS/MS, PDA, ECD, FLD, RI, UV); Over 120 Columns

Particle Size Analyzer – Melwarn, Germany (0.2 – 2000 microns)

20 GCs - Detectors: MS, ECD, TID, TCD, PID, FID; 7 with Headspace & Purge n' Trap

Automated TOC Analyzer, Shimadzu Japan – Upto 4 ppb

5 FTIRs - Perkin Elmer, Shimadzu (accessories for liquid cell)

5 AAS, 1 XRF - Flame, Graphite Furnace, Cold-Vapour, Hydride

9 USFDA Class 100 Clean Rooms

Instrumentation

- **Set-up ...2**

LC-MS/MS - Waters, Ion Chromatograph (with Dialysis Unit)

Balances from Mettler, Sartorius, Shimadzu or Precisia (20)

KF Titrators (6) and Potentiometers (6) from Mettler and Metrohm

Brookfield Viscometers (Digital, Small sample adapter)

Dissolution App. (USP – NF design – 8 nos.)

Laminar Flow (9), Bio-safety cabinet (2)

Water Purifiers from Sartorius for all labs

Instrumentation

- **Features**

Redundancy (Back-up for all major instruments)

Calibration by In-house ISO 17025 accredited lab or approved vendors

Traceability to NPL, NIST, NML, UKAS

Uncertainty calculations for all calibrations

Validations as per ICH, USP norms

IQ / OQ / PQ for most major equipment

Quality System

- Accredited by NABL (Department of Science & Technology) in 1999, and ISO 17025 in 2001 for Testing.
- Accredited on ISO 17025 for Calibration in 2002.
- Membership of APLAC & ILAC (through NABL)
- Access to 54 member economies

Mission

**We want to be a
world-class
Quality Assurance
Solutions Provider**