

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

WHO WE ARE?



Dr. Ghuman and Gupta Geotech Consultants F-81 Phase 7 Industrial area is resided in Mohali Punjab and is one of the most technically advanced engineering laboratories in India. Recognizing the need for a highly competent laboratory offering a full range of construction materials testing and analytical services, GGGC was established in 1992 by Dr. M.S Ghuman an Ex-professor, Department of Civil Engg, Punjab Engg College, Chandigarh, India and Er. Rajiv Kumar Gupta Member of Geotechnical Society. The technical advisory committee includes eminent scientists, professionals and technocrats from various engineering fields.

We have a full-fledged laboratory for carrying out soil investigations and testing of various types of construction materials at F-81, Industrial Area, Phase VII Mohali (Punjab) covering an area of 525 sq. yards well equipped with latest equipment's. Since we follow meticulously the procedures as laid down in relevant codes and so our test results manifest high degree of accuracy. Taking into consideration our high standard of laboratory testing, our clients are quite large such as MES, CPWD; Min. of Environment. and Forest, Civil Const. Unit, New Delhi, Air Force, Northern Railway, Telecommunication Department, LIC, NBCC etc. and almost all Govt. organizations/public sectors/corporations/Boards of Punjab, Haryana and Himachal.

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

We have successfully completed a large number of Geotechnical Investigations including testing of construction materials of various prestigious projects of MAP Project for MES, large number of projects of CPWD, AAI and BSNL at various sites all over Punjab, Uttarakhand, J&K, Haryana and HP in the recent past GGGC lab operation in Mohali is a NABL accredited testing laboratory in accordance with the ISO/IEC 17025:2005 procedures in the field of Mechanical, Non Destructive Testing & Chemical Testing (TC-5045), which include condition assessment of old RCC structures, Fire Burnt Structures ensuring consistent reliable laboratory results.



DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



Scanned with CamScanner

Each GGGC staff member is committed to providing our clientele with the utmost in quality, professional and cost effective services.

The combination of GGGC's wide range of specialized testing and experienced team of scientists, engineers & chemists provide the most comprehensive range of integrated advisory and technical services. The laboratory has been performing material testing, geotechnical investigations, NDT tests and structural evaluation for the entire spectrum of civil engineering infrastructure projects throughout the country, and even further afield.

One of our primary services is to provide foundation recommendations to clients. GGGC has provided foundation recommendations for civil

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

engineering projects to a variety of clients over the spectrum of development, retail, manufacturing, industrial and government service. GGGC has successfully completed thousands of projects for private, legal, and regulatory interests.

As an independent analytical laboratory, we provide prompt, precise, and impartial services to customers in the areas of building material testing, soil testing, drinking water testing, concrete testing & non-destructive testing. Utilizing highly effective state-of-the-art instruments and in-house system for monitoring samples throughout the testing process, we deliver the highest quality service and client confidentiality available.




We invite you to visit our facilities to further understand the quality and experience we offer clients. Feel free to offer comments and inquire about other service offerings. Our normal business hours are Monday to Saturday from 10 a.m. to 6:00 p.m. IST.



DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

ACCREDITATIONS & APPROVALS

GGGC lab operation in Mohali is a NABL accredited testing laboratory in accordance with the ISO/IEC 17025:2005 procedures in the field of Mechanical, Non Destructive Testing & Chemical Testing vide Certificate Number TC-5045 valid upto 20.12.2021.

		National Accreditation Board for Testing and Calibration Laboratories	
CERTIFICATE OF ACCREDITATION			
LABORATORY DIVISION - DR GHUMAN AND GUPTA GEOTECH CONSULTANTS			
has been assessed and accredited in accordance with the standard			
ISO/IEC 17025:2017			
"General Requirements for the Competence of Testing & Calibration Laboratories"			
for its facilities at			
F-81 PHASE 7, INDUSTRIAL AREA, MOHALI, PUNJAB, INDIA			
in the field of			
TESTING			
Certificate Number:	TC-5045	Valid Until:	20/12/2021
Issue Date:	16/01/2020		
<p>This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)</p>			
Signed for and on behalf of NABL			
	 N. Venkateswaran Chief Executive Officer		

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

- Our laboratory is approved by The Chief Engineer, CPWD, Chandigarh, Kendriya Sadan Sector 9 A, Chandigarh. Vide letter No. 23(670)/CE(Chandigarh)/3196 dated: 30.12.2019.
- Our laboratory is approved by The Superintending Engineer, Jammu Circle, CPWD, Landoi Bridge, Satwari Cantt., Jammu (J&K) vide letter No. JMCC/QA/2019-20/2388-H dated: 22.11.2019.
- Our laboratory is approved by The Superintending Engineer, Dehradun Central Circle, CPWD vide letter No. 12 (6)/DCC/21 dated: 05.01.2018. Our laboratory is also approved by The Superintending Engineer, Jalandhar Central Circle, CPWD vide letter 54 (1)/QA/JCC/2019/812-H dated : 16.05.2019, the Superintending Engineer, Shimla Central Circle, CPWD vide letter 23 (QA)/SCC/2019/997 dated : 22.05.2019.
- Our laboratory is also approved by The SM Engg (Str), Airport Authority of India vide Letter No. AAI/Str/R&D Lab/Lab-Emp/2017/885 dated : 07.06.2017 valid upto 31.03.2020.
- Our laboratory is also approved by The Chief Engineer (Civil) BSNL HP Civil Zone (South), Shimla vide letter No.W-01(09)CE(C-S)/HP/BSNL/SML/795 dated : 20.12.2018.
- Our laboratory is also approved by Engineer in Chief, PUDA, SAS Nagar for CIVIL Construction Materials Testing and Geotechnical Investigation Tests vide Memo No.PUDA/DE(S)/2017/4915 dated : 03.08.2017 for period of 3 years.

The Importance of Construction Materials Testing



A building's structure is much more than floors, walls and a foundation. Virtually all buildings rely on a variety of support materials, including layers of soil and cement, to maintain long-term stability. Construction materials testing (CMT) is a vital process that helps builders and site owners identify potential problems before committing resources to the project. Testing is also essential for keeping the structure in line with applicable legal requirements, including occupational safety and environmental regulations.

As an integrated consulting and management firm, GGGC Services offers comprehensive materials testing solutions that include field examinations, laboratory tests and special inspections. Materials testing and engineering ensures that the structural materials used during construction meet all necessary quality benchmarks. Our experts control the risks associated with building construction through the testing of earthworks, soils, concrete, masonry, asphalt, reinforcing steel, structural steel, water and other construction materials.

Why Construction Materials Testing Matters

In the construction industry, the term “materials testing” can refer to the evaluation of almost any kind of building material that impacts the

project at hand. This includes aspects of the local terrain, including soil quality and composition, as well as potential impact on nearby structures. It also encompasses testing of concrete, steel, masonry and woodwork elements throughout the structure.

The testing process is important because it allows inspectors and builders to identify faults before an actual stress test, where personal and environmental safety is at risk. Even detailed inspections aren't completely foolproof, but they are still extremely cost-effective and helpful throughout the construction process. Materials testing helps avoid expensive repair or renovation work to correct faults and mitigate risks to other people and property. Various inspections and proof of materials quality is also required by law depending on the location and type of structure.

Building Materials and Structural Testing

Observation and monitoring of foundation installation is another essential component of materials testing since faulty material or implementation can yield chronic and potentially disastrous consequences. Testers also conduct periodic evaluations at certain points throughout the construction process to ensure that all materials meet the minimum IS standards. This includes evaluation of reinforcing steel, fireproofing and building envelope quality assurance.

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

Our Special Inspections Capabilities

We provide systematic testing and inspection services to assure that construction materials meet project specifications as well as sustainability goals, saving our clients from costly change orders and delays and reducing future maintenance and repair. These evaluations also ensure that the building can pass official site inspections regarding occupational, environmental and public safety.

GGGC's Construction Materials Testing Services Include:

- **PAVEMENT DESIGN IIT PAVE AND CONCRETE DESIGN MIX**
- **SOIL INVESTIGATIONS FOR BUILDINGS, BRIDGES, OHSR, EARTH DAMS, IRRIGATION STRUCTURES, TOWERS AND INDUSTRIAL BUILDINGS**
- **CHEMICAL TESTING OF STEEL AND CEMENT.**
- **BRICKS AND PAVER COMPLETE TESTING**
- **WOOD IDENTIFICATIONS**
- **EVALUATION OF DYNAMIC ELASTIC PROPERTES & ANALYSIS OF MACHINE FOUNDATIONS & SOIL STABILIZATION PROBLEMS**
- **DRINKING WATER TESTING**
- **REINFORCING STEEL EVALUATION**
- **FIRE BURNT TESTING AND EVALUATION**
- **NONDESTRUCTIVE TESTING/INSPECTION**

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS

F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055

GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081

GGGCLABORATORIES.COM

- **CONCRETE CORE TESTING**
- **PLAIN TABLE SUVEYING, LEVELLING, CONTOURING & DEMARCATION**
- **POST-CONSTRUCTION AND OPERATIONS**
- **EXAMINATION/TESTING OF IN-PLACE MATERIALS (SOILS, AGGREGATES, CONCRETE, TILES, AND ASPHALT)**
- **ASPHALT AND CONCRETE DESIGN**
- **STRUCTURAL ASSESSMENT OF CONCRETE STRUCTURES**
- **SOILS STABILIZATION (CEMENT AND LIME-TREATED)**
- **WELD TESTING**
- **PREPARATION OF DETAILED PROJECT REPORT (DPR)**
- **REVERSE ENGINEERING TO MAKE STRUCTURE DRAWINGS**
- **CRACK DEPTH MEASUREMENT**
- **CAPO TEST**
- **TRAININGS**
- **PILE INTEGRITY TEST**
- **PHYSICAL & CHEMICAL TESTING OF BUILDING MATERIALS**
- **EARTH RESISTIVITY TEST**



OUR TEAM

T TOGETHER

E EVERYONE

A ACHIEVES

M MORE



**GREAT
BIG
MINDS**

1. **Er. RAJIV K. GUPTA**
CHIEF EXECUTIVE OFFICER
B.E.(Civil) (Hons.) PEC Chd – M.I.E

Member Indian Geotechnical Society

Experience 26 years' experience of rendering consultancy in the field of Geotechnical Engineering.

Rendered consultancy to more than 1000 projects.

2. **ER. ANURAG GUPTA** **QUALITY MANAGER**
BTECH. Civil Engg, ME CTM NITTTR, Chd.
Experience 5 years
3. **Dr. GAURAV GUPTA** **TECHNICAL MANAGER**
BE Civil Engg, MTech Delhi College of Engg. Geotechnical engg, PhD
Geotechnical Engg NITTTR Chd.
Experience 7 years
4. **HARVINDER SINGH** **FIELD EXECUTIVE OFFICER**
Experience 20 years
5. **INDERJIT SINGH HUNDAL** **FIELD EXECUTIVE OFFICER**
Experience 22 years
6. **SUSHIL KAPOOR** **FIELD EXECUTIVE OFFICER**
Experience 24 years
7. **SUNIL SAINI** **FIELD EXECUTIVE OFFICER**
Experience 21 years
8. **DAVINDER SINGH** **LABORATORY ANALYST**
Experience 19 years

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

- | | |
|---|--|
| 9. PUNEET
Experience 18 years | LABORATORY ANALYST |
| 10. GURSEWAK SINGH
Experience 3 years | LABORATORY ANSLYST |
| 11 RAVI BISHT
Experience 15 years | FIELD EXECUTIVE OFFICER |
| 12. Mrs. NAMRATA SINGH
Experience 4 years | LABORATORY ANALYST
(CHEMICAL) |
| 13. Mrs. ARUNA THAKUR
Experience 2 years | LABORATORY ANALYST
(CHEMICAL) |
| 14. PARMJIT SINGH
Experience 17 years | HEAD FIELD SUPERVISOR |
| 15. AMARPREET SINGH
Experience 7 years | FIELD EXECUTIVE OFFICER |
| 16. SKILLED LABOUR | VARIABLE NUMBERS |

QUALITY POLICY



- ▶ Provide services to customer's satisfaction by striving to become trustworthy laboratory by ensuring competence, impartiality and consistent operations of the laboratory.
- ▶ The laboratory management and its personnel are committed to good laboratory practices and quality in testing at par with the best industry practices in servicing its customers.
- ▶ The laboratory standard of service is to ensure that it does not engage in any activities that would diminish confidence in its competence, impartiality, judgment or operational integrity and shall never be compromised.
- ▶ Monitor quality objectives and rigorously follow findings of audits and actions decided in management reviews to continually improve standard of services delivered to customers.
- ▶ Making quality a commitment for all staff by familiarizing staff with the management system through training so that they can implement with self believe laid down policies and procedures in their work.
- ▶ Effective implementation of quality management system as per ISO/IEC 17025-2017 towards total quality and continual improvement of all processes.

QUALITY OBJECTIVES

- To regularly participate in quality assurance schemes to ensure that there is no z score of greater than ± 3 , for the same parameter in two consecutive programs.
- To analyze internal quality control data once every six month to ensure that outliers i.e. results outside the specified criteria are minimum.
- To evaluate customer complaints and customer feedback once every six month for inputs for the improvement of management system.



1. Central Public Works Department
2. Military Engineering Services

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

3. Bharat Sanchar Nigam Limited
4. Northern Railway
5. National Institute of Technical Teachers Training and Research
Chandigarh
6. National Buildings Construction Corporation Limited
7. Chandigarh Housing Board
8. Capital Project, Chandigarh
9. Municipal Corporation Chandigarh.
10. Panjab University, Chandigarh
11. Post Graduate Institute of Medical Education and Research,
Chandigarh
12. Army Welfare Housing Organisation
13. Air force Naval Housing Board
14. Ministry of Environment & Forest, Civil Construction Unit
15. Central Warehousing Corporation
16. BPCL
17. Improvement Trust, Punjab
18. IOCL

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

19. Hindustan Petroleum Corporation Ltd.
20. Punjab State Electricity Board
21. Haryana Police Housing Corporation Ltd.
22. Punjab Police Housing Corporation Ltd.
23. HSIDC
24. PWD B&R Punjab
25. Punjab Mandi Board
26. Punjab Urban Planning & Development Authority
27. Punjab Health System Corporation Limited
28. Punjab Water Supply and Sewerage Board
29. Public Health Systems Corpn. Ltd.
30. Punjab Markfed
31. Food Corporation of India
32. RITES
33. Airport Authority of India
34. PWD B&R Haryana
35. HP Housing and Urban Dev. Authority
36. National Buildings Const. Corpn. Ltd.

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

37. Postal Civil Division

38. Power Grid Corpn. Of India



PARTIAL LIST OF SOME OF OUR MAJOR CLIENTS
(PRIVATES)

1. NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH (NIPER) PHASE X, SAS NAGAR, MOHALI.
2. F.I. ASSOCIATES (P) LTD. A-45, PHASE-VIII-B, INDUSTRIAL AREA MOHALI
3. SILVER CITY, ZIRAKPUR
4. TATA TELE SERVICES
5. T.I.C.S., NEW DELHI
6. CONSOLIDATED CONSTRUCTION CONSORTIUM LIMITED, INFOSYS IT PARK PROJECT, CHANDIGARH.
7. HINDUSTAN LEVER LTD, BADDI
8. COLGATE PAMOLIVE, BADDI
9. TORRENT PHARMACEUTICALS LTD., BADDI
10. IND CHEMIE WORKS, BADDI
11. CADILA HEALTH CARE LTD. BADDI
12. PANECEA BIOTEC, BADDI
13. EMSAR INDIA PVT. LTD. , KUNJHAL, BROTIWALA
14. INDAG RUBBER LTD.
15. WIPRO LTD.
16. FEMCARE PHARMA, MANAKPUR
17. HAVELL'S INDIA LTD.
18. UNICHEM LABORATORY

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

19. ALKEM LABORATORY
20. HYGIENIC RESEARCH INSTITUTE, BAROTIWALA
21. LEGACY FOOD PVT. LTD. BADDI
22. ANCHOR HEALTH AND BEAUTY CARE, BADDI
23. NOVA PRECISION PLASTIC PVT. LTD., BAROTIWALA
24. LEE COOPER INDUSTRIES, BADDI
25. JUPITAR INDUSTRIES, BADDI.
26. GINI AND JONY APPARELS PVT. LTD., BADDI
27. CIPLA LTD., BADDI
28. CEMENT GRINDING UNIT AT VILLAGE VIR PLASI, TEHSIL
NALAGARH
29. MAHAVIR SPINNING MILLS, BADDI.
30. SHRINIVAS (GUJRAT) LABORATORIES PVT. LTD.. BADDI
31. LANDIS + GYR LTD. AT BADDI, TEHSIL NALAGARH
32. INDIAN HERBS RESEARCH SUPPLY CO. LTD., BADDI
33. EURO SOLAR ENERGY SYSTEMS LTD., BADDI
34. UNITED BIOTECH (P) LTD., NALAGARH
35. GEEP BATTERIRES PVT LTD., BADDI
36. ACTION SHOES, BADDI
37. SRI RAMA STEELS AT BAROTIWALA, BADDI ROAD

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

38. ANKUR DRUG & PHARMA LTD., BADDI
39. AURO TEXTILES, BADDI
40. LEXION BIOTECH (INDIA) LTD.
41. IND SWIFT LABORATORIES LTD.
42. BELLA VISTA SHOPPING MALL SITE, PANCHKULA.
43. SHALIMAR SHOPPING MALL, CITY CENTRE SECTOR-5,
PANCHKULA.6
44. M/S AMAZONE INTERPRISES PRIVATE LIMITED (RELIANCE)
45. TANEJA DEVELOPERS AND INFRASTRUCTURE LIMITED (TDI)
46. OMAXE LIMITED
47. LEIGHTON CONTRACTOR (INDIA) PRIVATE LIMITED (EMAAR
MGF LAND PRIVATE LIMITED, MOHALI)
48. ANSAL API, GOLF LINK TOWNSHIP, MOHALI.

- 49.A.V. CONSULTANTS S.C.O. 371-72-73, SECTOR-34A, CHANDIGARH.

- 50.DLF

- 51.M/S MAX HEALTH CARE INSTITUTE LIMITED

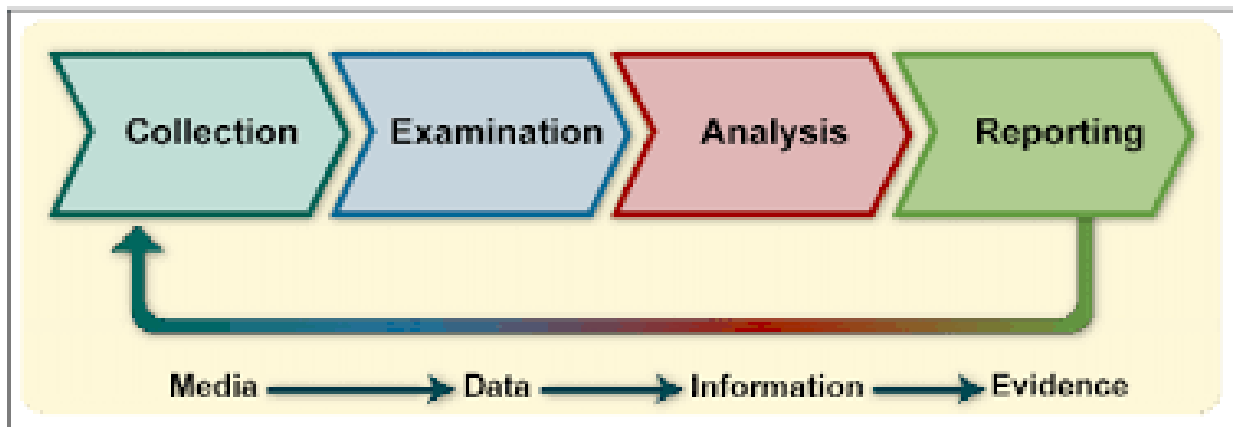
DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

HIGHLIGHTS

- M/S C&C CONSTRUCTIONS LIMITED (PROPOSED 17 STOREYED BUS TERMINAL CUM COMMERCIAL COMPLEX AT PHASE-VI MOHALI).
- CONSTRUCTION OF WAREHOUSE OF GLENMARK PHARMACEUTICALS LIMITED, BADDI-FORMULATION, VILLAGE KISHANPURA, BADDI-NALAGARH ROAD, TEHSIL BADDI, DISTT. SOLAN-173205, HIMACHAL PRADESH.
- GEOTECHNICAL INVESTIGATIONS OF SOIL AT RTRS TBRL RANGE, RAMGARH
- MATERIAL TESTING FOR CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT OF DELHI-LUDHIANA-AMRITSAR-KATRA EXPRESSWAY FOR FEEDBACK INFRA PVT LTD
- GEOTECHNICAL INVESTIGATIONS FOR THE CONSTRUCTION OF THE OASIS KPM HOTEL AT AMRITSAR
- CONSTRUCTION OF NEW PLANT BUILDING IN EXISTING FACTORY M/S PILKHANI DISTILLERY AND CHEMICAL WORKS SAHARANPUR
- GEOTECHNICAL INVESTIGATIONS FOR THE CONSTRUCTION OF GRADE SEPERATOR NH-22 IN BETWEEN SURAJPUR-HMT SECTION AT 0 RD OF PROPOSED PINJORE BYEPASS (EARLIER AND ADDITIONAL BOREHOLE COMBINED REPORT)
- GEOTECHNICAL INVESTIGATIONS FOR CONSTRUCTION OF FLY OVER WITH UNDER PASS AND SERVICE ROADS AT ATUL KATARIA CHOWK (OLD DELHI ROAD) & MAHAVEER CHOWK (OPPOSITE POLICE LINE) IN GURUGRAM DISTT.

GST Number and PAN No.

1. GST Number 03AAAFG7020N1ZN
2. PAN Number AAAFG7020N



LIST OF EQUIPMENTS FOR SOIL TESTING

1. A tripod assembly with a pulley, hoisting and lowering arrangements-4 Sets.
2. Casting pipes of 100mm, 150mm and 200 mm
3. Boring Equipment-Post hole auger 100mm diameter with extension rods with iron and wooden clamps.
4. Drill rods having stiffness of A rods and 1.5 m long each upto 50m depth.
5. Centering guide for keeping drill rods vertical
6. Drive weight assembly consisting of
 - a) Guide rod with driving head-3 Nos.
 - b) Hammer of 65 kg. Weight-3 Nos.
7. Thin walled sampling tubes of 38,60,75 and 100 mm dia about 5 Dozens.
8. Split spoon sampler with a drive shoe and sampler Head-5 Nos.
9. 50 mm cones for Dynamic Cone Penetration Test-6 Nos.
10. Plate Load Test steel grooved plates of different sizes.
11. Hydraulic Jack and Pump-capacity 25 tons.
12. Dial gauges and Datum bar, Dial gauge stands.
13. Packing columns of different sizes.
14. Kentledge facilities for reaction loading.
15. Miscellaneous such as measuring tape, trowels, spades, pick axes, sealing wax, observation sheets, polythene bags, pipe wrenches, chain wrenches, Drill rods clamp, jute and steel ropes etc.
16. Consolidation Apparatus with Complete Assembly-4 Nos.
17. Triaxial shear Testing apparatus.

Two Triaxial Cell (complete with all components)

Motorised System to apply load corresponding to 8 speeds.

Foot pumps for generating cell pressure.

Self-compensating Mercury control device for applying and maintaining constant cell pressure

18. Unconfined compressive strength apparatus with complete assembly-2 Nos.

19. Direct shear test apparatus.

20. Variable Head Permeability apparatus-2 Nos.

21. Constant Head Permeability apparatus

22. Proving rings with dial gauges of various capacities.

23. Universal sample extractors-2 Nos.

23. Split moulds for collecting samples out of sample extractors-2 Nos.

25. Grain Size distribution apparatus – Hydrometer and pipette method.

26. I.S. Sieves : 100mm, 80mm, 63mm, 50mm, 26.5mm, 22.4mm, 19mm, 13.2mm, 11.2mm, 6.7mm, 5.6mm, 4.75mm, 2.8mm, 2.36mm, 1.18mm, 0.600mm, 0.300mm, 0.212mm, 0.18mm, 0.15mm, 0.094mm, 0.075 m, lid an pan.

27. Motorised Sieve shaker

28. Liquid Limit Apparatus with grooving tools-Motorised and Hand Operated

29. Plastic Limit Test Apparatus

30. Shrinkage Limit Set Apparatus

31. Drying ovens with thermostatic control.



32. Electric Balances.
33. Physical balances with Analytical weight Box of 100 gms and 2000 gms.
34. Standard Proctor Compaction Test Apparatus.
35. Proctor Needle spring type.
36. Relative Density Test apparatus.
37. C.B.R. test apparatus for unsoaked and soaked conditions for design of flexible road pavements.
38. Core cutters with Dolly for D.B.D.-15 Nos.
39. Sand Replacement apparatus for Insitu Density.
40. Pycnometer, Specific Gravity Density Bottles.
41. Sampling tins for moisture and sand content-5 Dozens.
42. Pinhole test Apparatus.
43. Double hydrometer Test Apparatus.



44. Crumb Test Apparatus.

45. Necessary glass apparatus and chemical for testing of exchangeable ions and the presence of deleterious salts in soil (like SO_4 , Cl , CO_3 , etc.)

46. Modulus of sub-grade Reaction K-value test Apparatus as per IS requirements.

47. Hydraulic Jack and Pump of 25 tons capacity.

LIST OF EQUIPMENTS FOR TESTING CIVIL

CONSTRUCTION MATERIAL TESTING

1. Marshal test Apparatus Mould.

2. All chemical reagents for analysis suitability of water for curing and construction purpose.

3. Vicat Apparatus with plunger and needles for consistency and setting time of cement.

4. Lechatelier Air Permeability for soundness of cement.

5. Blain's Air permeability apparatus for specific surface area of cement.



6. IS Sieve 170 for fineness by dry sieving.
7. Standard Sands for making 3"x3"x3" cubes
8. 25 No. Cube moulds
9. Mechanical Hydraulic Compressible strength test machine of 100 tons capacity
10. All chemicals and glass apparatus for chemical analysis of cement sand mortar and cement concrete samples.
11. Miscellaneous apparatus like cylinders, towel, spatulas, saw, spanners, files,
cube, moulds, wash bottles, dessicator etc.
12. 2 Nos. balance of 5 kg. Capacity each with different weights ranging from 50 gram to 5 kg.
13. Hot Plate
14. Bitumen tests apparatus.
 - (a) Penetration Test
 - (b) Marshall Stability
 - (c) Softening point test (Ring & ball Apparatus)
 - (d) Bitumen extractor.
15. Aggregate Tests
 - (a) Crushing value of test apparatus
 - (b) Impact test
 - (c) Elongation test
 - (d) Soundness apparatus
16. Concrete Mix Design Apparatus
17. Flush Door/MDF/Shutters test Apparatus

18. Plywood shutter Apparatus.
19. Testing kit for paving Asphalts as per IS requirements.
20. Bituminous content (Extraction) test apparatus.
21. Marshall stability test Apparatus for design of Asphaltic concrete and Dense Bituminous Macadam, mixes as per MOST/IRC requirements.
22. Testing Apparatus for Design of Granular Sub-base, Wet Mixes as per MOST/IRC requirements.
23. Test Apparatus for determining relative degree of field compaction of road sub-grade.
24. Benkelman's Beam Apparatus for deflection test on existing pavements for strengthening or Design of overlay as per IS code.
25. Gradation test on materials for W.B.M. base/sub-base courses for road pavements as per MOST/IRC requirements.
26. Laboratory tests for suitability of soils for road embankments as per MOST/IRC requirements.
27. Ductility test on paving Asphalts.
28. Apparatus for Aggregate Impact value (AIV) test for road aggregates.
29. Stripping value test Apparatus for road aggregate.
30. Bitumen Penetration test Apparatus as per IS code.
31. Bitumen Density test Apparatus.
32. Bitumen Softening point (R&B) test Apparatus.
33. Flakiness and Elongation Indices test Apparatus for road aggregates.
34. Soundness test Apparatus for road aggregates.
35. Water Absorption test for road aggregates.

36. Test Apparatus for Lime, Soil and Cement-soil mixes for stabilization.
37. Computerised Universal Testing Machine from Blue Star of Capacity 40 T and 100 T (being installed) for steel testing.
38. Aimil Cement Autoclave
39. Specific Gravity and Water Absorption Apparatus (Wire mesh Basket)
40. Humidity Chamber (0 to 60° Temperature 0-110% Humidity)
41. Digital Water Bath (Hot) and Cooling Water Bath
42. Digital Thermo Hygrometer
43. Humidifier
44. Length Comparator
45. Wet and Dry Thermometer
46. Sample Riffler
47. Digital Tachometer
48. Vacuum Dessicator
49. Rubber Pestle & Mortar
50. Efflorescence Trays
51. Extensometer for 0.2% Proof Stress
52. UV-Visible Spectrophotometer
53. Semi Automatic Carbon Sulphur Apparatus
54. Rebound Hammer Schmidt Proceq
55. Pile Integrity Test Apparatus
56. CAPO Apparatus
57. Ferro Scanner Hilti

- 58. Ultra Pulse Velocity Test Proceq
- 59. Garmin Carbonation Spray
- 60. Hilti DD120 Concrete Core Cutting machine
- 61. PH Meter
- 62. Turbidity Meter
- 63. Hot & Cold Water Bath



Bricks



Cement



Concrete



Sand



Reinforcement



Glass



Plastic



Wood



Tiles

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



ULTRA PULSE VELOCITY TEST IN COLUMN ULTRA PULSE VELOCITY TEST IN FOOTING



A TEAM IN PURSUIT OF EXCELLENCE

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



CHANDIGARH POLICE CYCLATHON PARTICIPATION



DOUBLE HOOKED STEEL FIBRE USED IN CONCRETE



SURVEY IN HIMACHAL PRADESH

Chandigarh Tribune

KIRAN BEDI: HUMAN RIGHTS VITAL FOR COMMUNITY WELFARE
 Kiran Bedi attends an international conclave on human rights, community welfare and philanthropy at the PU.



ASI AMONG THREE INJURED AS SUSPECT ATTEMPTS TO ESCAPE
 Accident averted as suspect tries to escape by turning the steering of a vehicle on the Kharar-Kurali road.



550 REFLECTIVE JACKETS GIVEN TO CART-PULLERS BY COPS
 Cops organise a safety awareness drive for rickshaw and cart-pullers and distribute 550 reflective jackets.



FORECAST: GENERALLY CLOUDY | MAX 34°C | MIN 15°C | YESTERDAY MAX 34.1°C | MIN 15.0°C | SUNSET TUESDAY 5:20 PM | SUNRISE WEDNESDAY 6:45 PM

IN BRIEF
PGL, GMCH OPDs CLOSED TODAY
 Chandigarh: All OPDs of the PGL and the Government Medical College and Hospital, Sector 32, will remain closed on Tuesday on account of Gita Nandani Devi's 10th anniversary. However, emergency services will function as usual. As many as 8,524 patients visited the general and special OPDs and 324 patients reached the emergency OPD of the PGL on Monday. To avoid inconvenience to patients, OPDs and investigation services remained functional at the GMCH in spite of the declaration of a holiday by the UT Administration on Monday. An official said 498 new patients registered on Monday, while 1,711 patients reached the hospital.

LABOURER FALLS TO DEATH
 Zirakpur: A 30-year-old construction worker reportedly died after falling from an under-construction building in Zirakpur here on Sunday. The deceased is yet to be identified, said the police. The police used the incident look glass when the victim was working at the construction site. The victim, who sustained serious injuries, was taken to the GMCH, Chandigarh, where he died later. The body has been kept at the mortuary at the GMCH for 72 hours for identification. The District Police has initiated enquiry proceedings into the matter.

PEDESTRIAN HIT BY TRUCK, DIES
 Chandigarh: A pedestrian was killed after being hit by a truck near the Gurdwara at Dera village on Monday evening. The victim has been identified as Ranjit Singh, 60, of Ghazal district in UP. He was taken to the GMCH, Sector 32, where doctors declared him brought dead. A person, Shashi Anand, went to the police post at Dera and informed it about the accident. A PCR vehicle reached the spot and shifted the injured to the hospital. An FIR under Sections 279 and 337 of the IPC has been registered against the truck driver, Rajan Kumar, who had been the spot. The police have impounded the vehicle.

TRUCK FUEL PRICES

	PETROL	DIESEL
CHANDIGARH		
768.52	762.87	
PANCHKULA		
772.25	765.03	
MOHALI		
774.02	765.06	

WHAT'S ON
CHANDIGARH
APNI MANDI: Sector 29, 50 and Dhanam
MOHALI
APNI MANDI: Sector 71
PANCHKULA
APNI MANDI: Sector 25

Schools flout CBSE norms to provide coaching on premises

REALITY CHECK: Sector 34 coaching centre found running school contact programme with three private schools in the city

NAJMA MISHRA
 CHANDIGARH, NOVEMBER 11 — The recent penalty imposed by the district consumer forum on PITCHKE, a coaching institute, wherein the complainant attended coaching classes at a Sector 34-based school, has brought forth the "commercial activities" being run by city schools even as the Central Board of Secondary Education (CBSE) has banned running of entrance exams coaching classes within the school premises. The Tribune carried out a reality check on a coaching centre, Zetta Career Institute at Sector 34, by posing as an

ITJEE aspirant to uncover how such illegal preparations function at the school level. Upon visiting the institute, this correspondent was attended by a Zetta coordinator, Anika, who presented this correspondent with a hand-out of "Two-Year School Contact Programme (SCP)" and said, "Zetta is running the school contact programme with three private schools in the city — New Public School, DC Montessori and Ishwar Singh Dev Sarang School." "The school's role is to provide registration for the Class XII board examination, whereas Zetta teachers take care of subjects like physics, chemistry, mathematics and

biology at the school itself." Asked whether the applicants can directly approach the coordinator and the principals, she said, "The applicants have to be sent by the institute itself as there is high vigilance by the CBSE and schools are taking extra care of it. That is why we don't share the details of the SCP with everyone. Such details are only shared if the applicant comes through some recommendation." This correspondent also visited the schools and spoke to students enrolled by Zetta. A student of Ishwar Singh Dev Sarang School admitted that she studied in the school, but only for preparing for the JEE entrance exam. The facts also come from outside the

school, he said. The Tribune has the recording of all conversations of the co-ordinating centre and also with students of the schools concerned. What stakeholders say K Singh, a spokesperson for Zetta, said, "We are doing it for the welfare of students. There is nothing wrong in recommending schools to students if they come to us seeking it." Anand, IED Singh, Principal of New Public School, Sector 34, said, "In this case, talk to Zetta officials only." He refused to comment and did not respond to further queries. Renu Verma, Principal of DC Montessori School, Mans

Tribune flyover soil testing work starts

Will help in ascertaining load-bearing capacity

RAMKISHAN UPADHAYAY
 CHANDIGARH, NOVEMBER 11 — As the UT Administration has finalised the tender for the construction of the Tribune flyover, the company selected to handle the project has started a soil-testing survey for the road-embankment project. In the financial bids opened last month, the UT Engineering Department had selected a firm, DRDCI, Chandigarh, to carry out the project. Sources said the firm had appointed Dr Ghuman and Gupta Geotechnical Consultants, Mohali, to carry out the soil survey to know the load-bearing capacity of earth on stretch of the flyover before starting the construction. Indrajit Singh, site engineer of the company, said the soil testing would take around 70 days. He said the soil testing would reveal the load-bearing capacity of the earth. The foundation design for the project will be based on the report.

RAHUL MAHAJAN
 Of these, 145 will be replaced with the help of an expert **RAMKISHAN UPADHAYAY**
 CHANDIGARH, NOVEMBER 11 — The UT Administration has finalised the plan for the removal of around 345 trees existing in the way of the Tribune flyover. Sources said the plan was finalised at a high-level meeting, chaired by UT Adviser Manoj Kumar Parida, who directed the officials concerned to ensure that the maximum possible number of trees are saved for the flyover. Sources said as per the plan, of the total 345 trees existing in the way of the flyover, 400 will be used, while the Administration has decided to use the services of city environmentalist Rahul Mahajan, who has offered to replace all trees free of cost. Mahajan will carry out replantation, while all necessary infrastructure such as JCB machines will be provided by the Administration. Mahajan has successfully replanted over 100 trees so far in the city and nearby areas. Initially, the Administration had planned to seek

FLYOVER WILL HELP EASE TRAFFIC CONGESTION
 The flyover project will start near the GMCH roundabout and cover Tribune Chowk along Dabhan Marg. The construction of the flyover and the underpass will help ease traffic congestion at the busiest junction of the city, having the highest concentration of vehicular traffic.

Kher opens rail underbridge at Mani Majra
 CHANDIGARH, NOVEMBER 11 — A rail underbridge (SUB) was inaugurated by Kiran Khosla, MP at the Mani Majra railway crossing today which will not only provide additional connectivity between Chandigarh and Panchkula, but will also facilitate smooth movement of traffic from the

Admn finalises plan to remove 545 trees

PANCHKULA, NOVEMBER 11
 In yet another incident of dog bite, a five-year-old girl was brutally bitten on her hand by a stray dog while she was busy playing outside her house at Bahpur Colony in Panchkula today.

Stray dog bites five-year-old girl

PANCHKULA, NOVEMBER 11
 In yet another incident of dog bite, a five-year-old girl was brutally bitten on her hand by a stray dog while she was busy playing outside her house at Bahpur Colony in Panchkula, from where doctors referred her to the PGL. Anika's aunt, Kamini, said her niece was playing outside the house around 1 pm when a stray dog attacked her. After hearing the shriek of the child, she rushed out and saved her from the dog. She said the dog had brutally bitten the child on her hand. She said they took the child

Youth hangs self to death

ZIRAKPUR, NOVEMBER 11
 A 16-year-old youth reportedly committed suicide by hanging himself from a ceiling fan in a rented accommodation in Zirakpur here this morning. The deceased has been identified as Surjit Singh, who hailed from Agrawal village and was putting up in a rented accommodation near Naha Subh-Gandhi, Zirakpur, for two years. The incident came to light when Surjit's roommates came back after checking his night shift. He found Surjit hanging on his room and informed the police. The police said the victim was facing acute financial issues, which drove him to take the extreme step. He had a private job and was unemployed, said the police. — GC

SUCCESS does not lie in 'Results' but in 'Efforts'

www.THEGURUKUL.CURU

modernity with tradition

BAHUR COLONY, PANCHKULA
 PANCHKULA
 PANCHKULA

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



WORKS AT BRO LEH



SOIL INVESTIGATIONS



SITE INSPECTION



**CERTIFICATE OF PARTICIPATION AT
NCB BALLABGARH**



REBOUND HAMMER TEST

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



FERRO SCANNING TEST PROPOSED CHANDIGARH FLY OVER



EARTH RESISTIVITY TEST

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



TRAINING ON DECISION RULE



CONCRETE CORE CUTTING



**FULLY AUTOMATIC COMPRESSION TESTING MACHINE WITH TWO LOADING
FRAMES 3000 KN AND 500 KN**

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



CONCRETE RESISTIVITY TEST



TRAINING BY MR. ABHAY FROM MUMBAI CARBON

SULPHUR APPARATUS



TRAINING AT NCB BALLAGBARH MACHINE

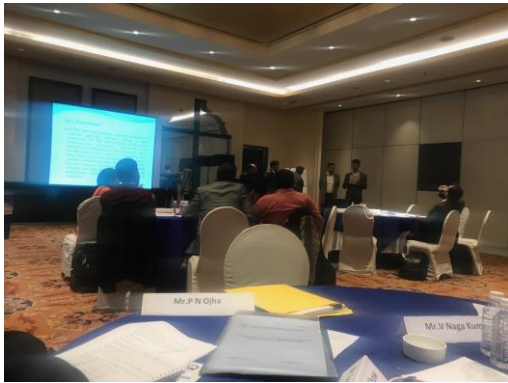


AUTOMATIC COMPRESSION TESTING

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



USE OF PPE'S NON DESTRUCTIVE TESTING AT KUALA LUMPUR MALAYSIA



SOIL INVESTIGATIONS AT LOMA 150 KM FROM LEH

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



K VALUE TEST



IN HOUSE TRAINING AT GGGC



**IDENTIFICATION OF PAVEMENT
LAYERS**



**COLLECTION OF SOIL SAMPLE FOR
CBR TEST**

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM



INSPECTION OF FOOTING SOIL INVESTIGATIONS WORK AT TRIBUNE CHOWK CHANDIGARH

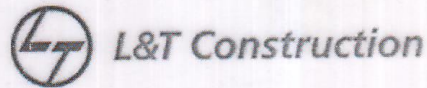


CARBONATION DEPTH



DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC LABORATORY@YAHOO.CO.IN 0172-4666081
GGGCLABORATORIES.COM

NON DESTRUCTIVE TESTING COMPLETION CERTIFICATE FOR L&T
CONSTRUCTION



CIN-L99999MH1946PLC004768

Dated: 24-02-2018

To whomsoever it may concern

This is to certify that we had awarded the work of Rebound Hammer, Ultrasonic Pulse Velocity & Core compressive strength testing of Columns & Slab to M/s Ghuman & Gupta Geotech Consultants (S0035739) vide our Work Order No. EG837WOD7000004 of Amount Rs. 1824100/- for Retrofitting Work Project, Chandigarh.

The agency had successfully completed the scope of work in the month of January' 2018.

For Larsen & Toubro Limited.
ECC division



(H. C. T.)
Project Manager
Retrofitting Project,
Chandigarh