

DR GHUMAN AND GUPTA GEOTECH CONSULTANTS
F-81 PHASE 7 INDUSTRIAL AREA, MOHALI, PUNJAB 160055
GGGC_LABORATORY@YAHOO.CO.IN 9988888945
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.

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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 17025:2017 procedures in the field of Mechanical, Non Destructive Testing & Chemical Testing (TC-5045), which include condition assessment of old RCC structures, Structure Audits, Reverse Engineering, Water Seepage Issues, Fire Burnt Structures ensuring consistent reliable laboratory results.

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OUR SERVICES

GEOTECHNICAL INVESTIGATIONS

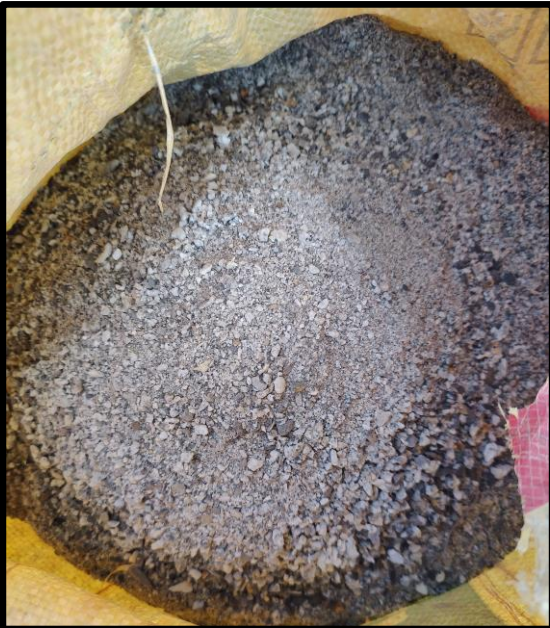


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SURVEYING

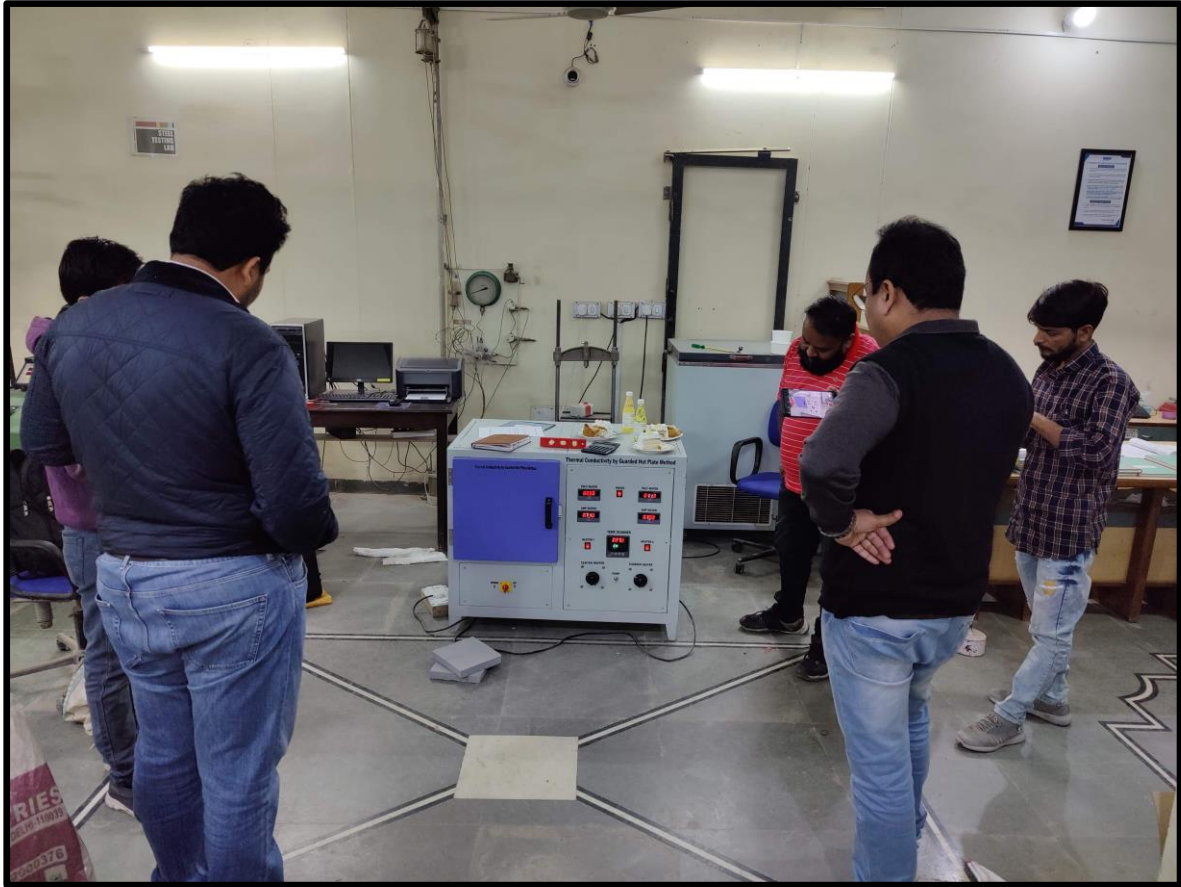


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PHYSICAL TESTING OF BUILDING **MATERIALS**

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THERMAL CONDUCTIVITY OF AAC BLOCKS



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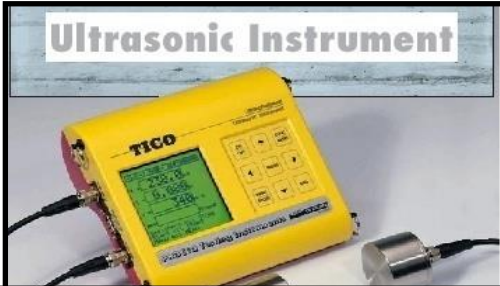
CHEMICAL TESTING OF BUILDING **MATERIALS**

DRINKING WATER TESTING AS PER IS 10500



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NON DESTRUCTIVE TESTING

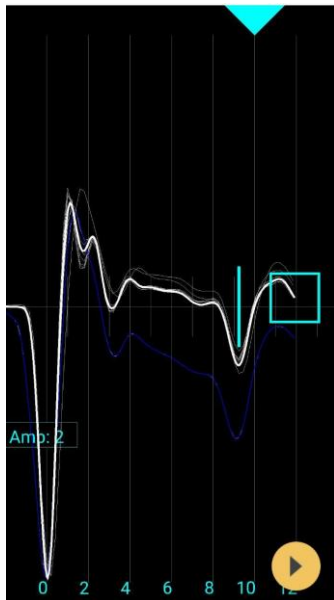


ULTRA PULSE VELOCITY TEST

CARBONATION TEST



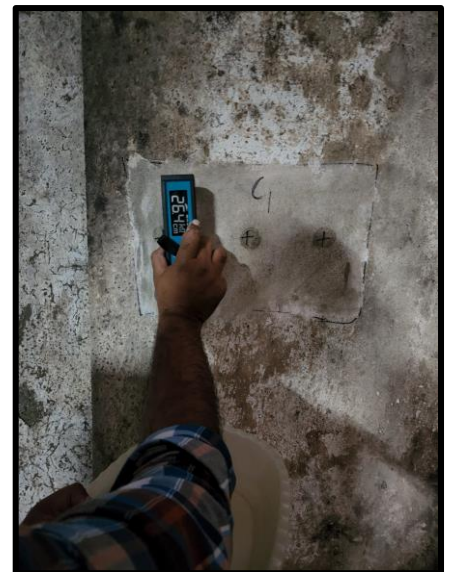
FERRO SCANNING TEST



REBOUND HAMMER TEST

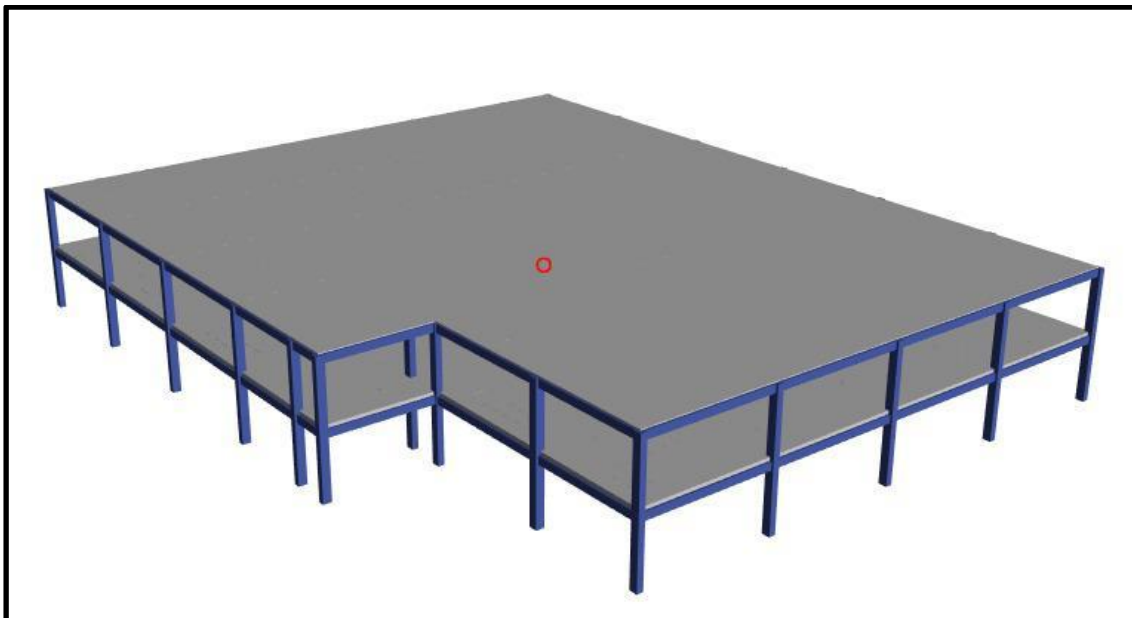
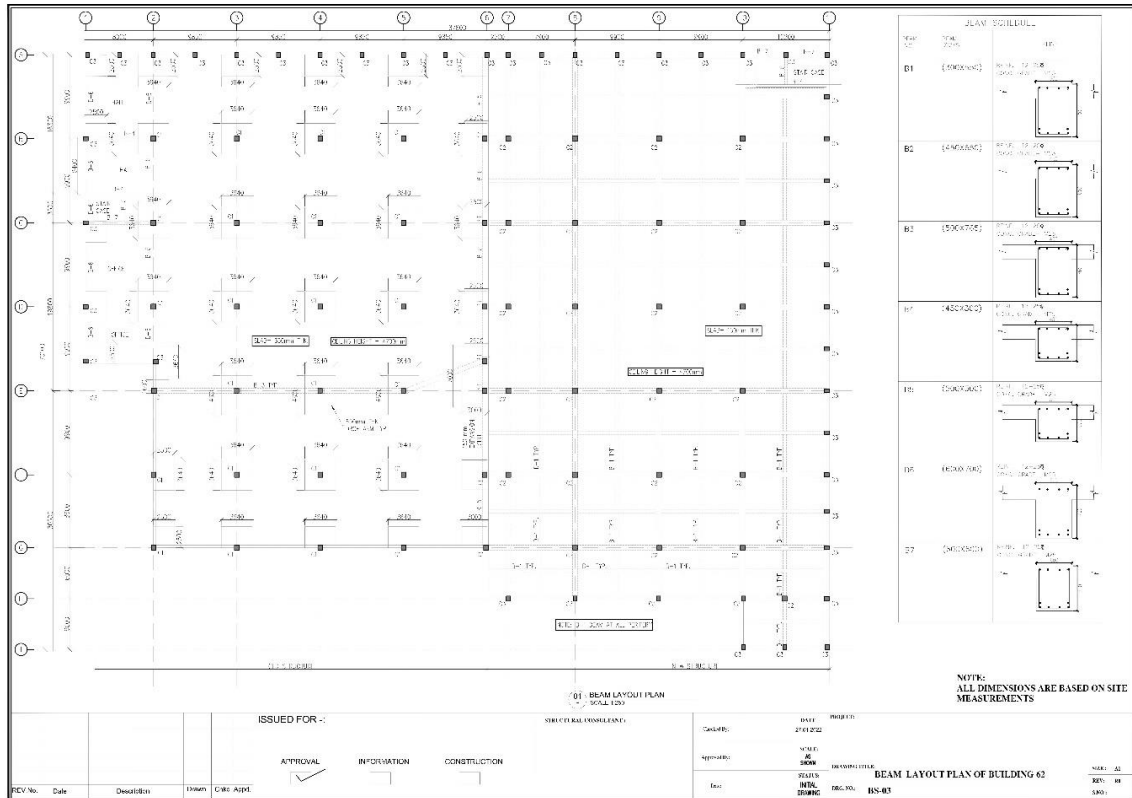


PILE INTEGRITY TEST



**CONCRETE
RESISTIVITY TEST**

STRUCTURE DRAWING



STAAD MODELLING

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CONDITION ASSESSMENT OF **OLD/NEW/DAMAGED STRUCTURES**



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STRUCTURE AUDITS/REVERSE **ENGINEERING OF BUILDINGS** **REPAIR METHODOLOGY**





**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, S.A.S NAGAR, PUNJAB, INDIA

in the field of

TESTING

Certificate Number: TC-5045

Issue Date: 21/12/2021

Valid Until: 20/12/2023

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)

Name of Legal Identity : Dr. Ghuman and Gupta Geotech Consultants

Signed for and on behalf of NABL



**N. Venkateswaran
Chief Executive Officer**

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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 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

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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.



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ACCREDITATIONS & APPROVALS

GGGC lab operation in Mohali is a NABL accredited testing laboratory in accordance with the ISO/IEC 17025:2017 procedures in the field of Mechanical, Non Destructive Testing & Chemical Testing vide Certificate Number TC-5045 valid upto 20.12.2023.


		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, S.A.S NAGAR, PUNJAB, INDIA			
in the field of			
TESTING			
Certificate Number:	TC-5045	Valid Until:	20/12/2023
Issue Date:	21/12/2021		
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Name of Legal Identity : Dr. Ghuman and Gupta Geotech Consultants			
Signed for and on behalf of NABL			
			
		N. Venkateswaran Chief Executive Officer	

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- Our laboratory is approved by The ADG CPWD, Chandigarh.


भारत सरकार
GOVERNMENT OF INDIA
केन्द्रीय लोक निर्माण विभाग
CENTRAL PUBLIC WORKS DEPARTMENT

कार्यालय:
अपर महानिदेशक (क्षेत्र चंडीगढ़)
केन्द्रीय लोक निर्माण विभाग, सेक्टर-9 (ए), चण्डीगढ़-160009
दूरभाष सं० : 0172-2741169
फैक्स सं० : 0172-2740728


Office of the:
Additional Director General (Region Chandigarh)
CPWD, Sector-9(A), Chandigarh-160009
Tel. No. : 0172-2741169
Fax No. : 0172-2740728
E-Mail I.D. prd.chd@cpwd.nic.in
Website: https://cpwd.gov.in

पत्रांक: Lab approval /अ.म.नि.(क्षेत्रचंडीगढ़)/ 2021 / अधी०अभि०(टी.एल.क्यू.ए.)/3422-18 दिनांक: 1 /11/2021

कार्यालय ज्ञापन

Sub:- Approval of laboratory of Dr. Ghuman and Gupta Geotech Consultants.

Dr. Ghuman and Gupta Geotech Consultants, situated at F-81, Phase-VII, Industrial Focal Point, Mohali (PB)- 160055, NABL accredited laboratory is approved by the ADG(Region Chandigarh), CPWD for testing of building and road construction material for CPWD works under jurisdiction of ADG(Region Chandigarh) for a period of two years from the date of issue of this letter, subject to following conditions.

1. Continued renewal of validity of NABL accreditation.
2. The approval will automatically lapse after the expiry of this period unless got renewed.
3. Approval can be withdrawn pre-maturely without assigning any reason on complaints or uncalled for action of the lab.
4. The approval given does not absolve the supervisory officer of CPWD of their responsibility ensuring quality of work.
5. Above approval does not make the firm eligible for claiming right to take the work done through them which is subjected to their competitive stand amongst other qualifying specialized firm in the field to avail material testing facilities.
6. The performance of the firm shall be watched by field units and submitted to the approving authority before expiry of validity of approval.
7. The approval shall be applicable to the jurisdiction of ADG(Region Chandigarh).
8. Dr. Ghuman and Gupta Geotech Consultants shall have valid calibrations certificate from NABL approved authority at all times.

This issues with the approval of ADG(Region Chandigarh).

(सोम लाल काजल)
कार्यपालक अभियंता (टी.एल.क्यू.ए.)

प्रतिलिपि:-

1. The All Chief Engineers, Superintending Engineers and Executive Engineers under this region for information and necessary action please by e-mail.
2. Dr. Ghuman and Gupta Geotech Consultants, situated at F-81, Phase-VII, Industrial Focal Point, Mohali (PB)- 160055 by speed post w.r.t. their letter No. GGGC/D-300321/5/2020-2021 dated 30.03.2021.

कार्यपालक अभियंता (टी.एल.क्यू.ए.)
(सोम लाल काजल)
11/11/2021

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- Our laboratory is approved by The Superintending Engineer, Jammu Circle, CPWD, Landoi Bridge, Satwari Cantt., Jammu (J&K)
- Our laboratory is approved by The Superintending Engineer, Dehradun Central Circle, CPWD
- Our laboratory is also approved by The Superintending Engineer, Jalandhar Central Circle, CPWD
- The Superintending Engineer, Shimla Central Circle, CPWD
- Our laboratory is also approved by The SM Engg (Str), Airport Authority of India
- Our laboratory is also approved by The Chief Engineer (Civil) BSNL HP Civil Zone (South), Shimla
- Our laboratory is also approved by Engineer in Chief, PUDA, SAS Nagar for Civil Construction Materials Testing and Geotechnical Investigation Tests

**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.

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 IDENTIFICATION**
- **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**
 - **CONCRETE CORE TESTING**
 - **PLAIN TABLE SUVEYING, LEVELLING, CONTOURING & DEMARCATION**

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- **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**
- **HYDROLOGICAL SURVEY TO FIND OUT WATER LEVEL.**
- **CARBONATION 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 30 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 7 years

3. **Dr. GAURAV GUPTA** **TECHNICAL MANAGER**
BE Civil Engg, MTech Delhi College of Engg. Geotechnical engg, PhD
Geotechnical Engg NITTTR Chd.
Experience 9 years

4. **HARVINDER SINGH** **FIELD EXECUTIVE OFFICER**
Experience 22 years

5. **INDERJIT SINGH HUNDAL** **FIELD EXECUTIVE OFFICER**
Experience 24 years

6. **SUSHIL KAPOOR** **FIELD EXECUTIVE OFFICER**
Experience 24 years

7. **SUNIL SAINI** **FIELD EXECUTIVE OFFICER**
Experience 25 years

8. **DAVINDER SINGH** **LABORATORY ANALYST**
Experience 21 years

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- | | |
|--|--|
| 9. ROHIT
Experience 1 year | LABORATORY ANALYST |
| 10. GURSEWAK SINGH
Experience 5 years | LABORATORY ANSLYST |
| 11 RAVI BISHT
Experience 17 years | FIELD EXECUTIVE OFFICER |
| 12. Ms. NEHA
Experience 5 years | LABORATORY ANALYST
(CHEMICAL) |
| 13. Mrs. ARUNA THAKUR
Experience 2 years | LABORATORY ANALYST
(CHEMICAL) |
| 14. PARMJIT SINGH
Experience 19 years | HEAD FIELD SUPERVISOR |
| 15. AMARPREET SINGH
Experience 9 years | FIELD EXECUTIVE OFFICER |
| 16. SKILLED LABOUR | VARIABLE NUMBERS |



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 1 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride Content	IS 9103
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH value	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative Density	IS 9013
6	CHEMICAL- BUILDING MATERIAL	Cement	Chloride	IS 4032
7	CHEMICAL- BUILDING MATERIAL	Cement OPC/PPC	Alkali Content Potassium Oxide	IS 4032
8	CHEMICAL- BUILDING MATERIAL	Cement OPC/PPC	Alkali Content Sodium Oxide	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Coarse and Fine Aggregate	Alkali Aggregate Reactivity 1) Dissolved Silica	IS 2386 Part 7
10	CHEMICAL- BUILDING MATERIAL	Coarse and Fine Aggregate	Alkali Aggregate Reactivity 1) Reduction in alkalinity	IS 2386
11	CHEMICAL- BUILDING MATERIAL	Coarse and Fine Aggregate	Alkali Content Potassium Oxide	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Coarse and Fine Aggregate	Alkali Content Sodium Oxide	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Coarse and Fine Aggregate	Chloride	IS 14959 Part 2
14	CHEMICAL- BUILDING MATERIAL	Coarse and Fine Aggregate	Sulphate	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Fly Ash	Available Alkali as Sodium Oxide	IS 3812 Part 1
16	CHEMICAL- BUILDING MATERIAL	Fly Ash	Calcium Oxide	IS 1727
17	CHEMICAL- BUILDING MATERIAL	Fly Ash	Combined Ferric Oxide and Alumina	IS 1727
18	CHEMICAL- BUILDING MATERIAL	Fly Ash	Loss on Ignition	IS 1727

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 2 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	CHEMICAL- BUILDING MATERIAL	Fly Ash	Magnesia	IS 1727
20	CHEMICAL- BUILDING MATERIAL	Fly Ash	Silica	IS 1727
21	CHEMICAL- BUILDING MATERIAL	Fly Ash	Sulphuric Anhydride	IS 1727
22	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement	Magnesium Oxide	IS 4032
23	CHEMICAL- BUILDING MATERIAL	ordinary portland cement OPC	Aluminium Oxide	IS 4032
24	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement OPC	Calcium Oxide	IS 4032
25	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement OPC	Insoluble Residue	IS 4032
26	CHEMICAL- BUILDING MATERIAL	Ordinary Portland Cement OPC	Iron Oxide	IS 4032
27	CHEMICAL- BUILDING MATERIAL	Ordinary Portland cement OPC	Loss on Ignition	IS 4032
28	CHEMICAL- BUILDING MATERIAL	Ordinary Portland cement OPC	Silica	IS 4032
29	CHEMICAL- BUILDING MATERIAL	Ordinary Portland cement OPC	Sulphuric Anhydride as SO ₃	IS 4032
30	CHEMICAL- BUILDING MATERIAL	Pozzolona Portland Cement PPC	Calcium Oxide	IS 4032
31	CHEMICAL- BUILDING MATERIAL	Pozzolona Portland Cement PPC	Insoluble Residue	IS 4032
32	CHEMICAL- BUILDING MATERIAL	Pozzolona Portland Cement PPC	Loss on Ignition	IS 4032
33	CHEMICAL- BUILDING MATERIAL	Pozzolona Portland Cement PPC	Magnesium Oxide	IS 4032
34	CHEMICAL- BUILDING MATERIAL	Pozzolona Portland Cement PPC	Sulphuric Anhydride as SO ₃	IS 4032
35	CHEMICAL- METALS & ALLOYS	Low alloy steel and Plain carbon steel	carbon	IS 228 (Part 1)
36	CHEMICAL- METALS & ALLOYS	Low alloy steel and Plain carbon steel	manganese	IS 228 ,Part 2
37	CHEMICAL- METALS & ALLOYS	Low alloy steel and Plain carbon steel	Phosphorus	IS 228 (part 3)



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38	CHEMICAL- METALS & ALLOYS	Low alloy steel and Plain carbon steel	Sulphur	IS 228 (part 9)
39	CHEMICAL- METALS & ALLOYS	TMT Bar	Carbon Equivalent	IS 1786
40	CHEMICAL- WATER	Construction Water	Chloride as Cl - Argemetric method	IS 3025 (part 32) Clause no 2
41	CHEMICAL- WATER	Construction Water	Inorganic Solids	IS 3025 (part 18)
42	CHEMICAL- WATER	Construction Water	Organic Solids	IS 3025 (part 18)
43	CHEMICAL- WATER	Construction Water	pH Value	IS 3025 (part 11)
44	CHEMICAL- WATER	Construction Water	Sulphate as SO ₃ - Gravimetric method	IS 3025 (part 24) Clause no 2
45	CHEMICAL- WATER	Construction Water	Suspended matter	IS 3025 (part 17)
46	CHEMICAL- WATER	Construction Water	volume of 0.02N H ₂ SO ₄ used to neutralized 100 ml of sample using mixed indicator (Alkalinity)	IS 3025 (part 23)
47	CHEMICAL- WATER	Construction Water	Volume of 0.02N NaOH used to neutralized 100 ml of sample using phenolphthalein indicator (Acidity)	IS 3025 (part 22)
48	CHEMICAL- WATER	Drinking Water	Calcium (as Ca) - EDTA titrimetric method	IS 3025 (part 40), Clause no 5
49	CHEMICAL- WATER	Drinking Water	Chloride (as Cl) - Argemetric method	IS 3025 (part 32) Clause no 2
50	CHEMICAL- WATER	Drinking Water	Colour (Hazen) - Platinum cobalt method	IS 3025 (part 4) Clause no 2
51	CHEMICAL- WATER	Drinking Water	IRON (as Fe) - 1,10 phenanthroline method	IS 3025 (Part 53), Clause 6
52	CHEMICAL- WATER	Drinking Water	Magnesium - Volumetric method using EDTA	IS 3025 (part 46) Clause no 6
53	CHEMICAL- WATER	Drinking Water	Nitrate (as NO ₃) - Chromotropic Acid method	IS 3025 (part 34), Clause no 3.3
54	CHEMICAL- WATER	Drinking Water	Odour	IS 3025 (part 5)
55	CHEMICAL- WATER	Drinking Water	pH Value	IS 3025 (part 11)
56	CHEMICAL- WATER	Drinking Water	Sulphate - Turbidity method	IS 3025 (part 24) Clause no 4
57	CHEMICAL- WATER	Drinking Water	Total Alkalinity (As CaCO ₃)	IS 3025 (part 23)
58	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids	IS 3025 (part 16)



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 4 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
59	CHEMICAL- WATER	Drinking Water	Total hardness (as CaCO ₃)	IS 3025 (part 21)
60	CHEMICAL- WATER	Drinking Water	Turbidity	IS 3025 (part 10)
61	MECHANICAL- BUILDINGS MATERIALS		Compressive Strength	IS 3495 (part 1)
62	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Penetration (Tenths of a Millimeter)	IS 1203
63	MECHANICAL- BUILDINGS MATERIALS	Bitumen	Softening Point	IS 1205
64	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen/Industrial Bitumen	Absolute Viscosity @ 60 Degree	IS 1206 Part 2
65	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen/Industrial Bitumen	Ductility Test	IS 1208
66	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen/Industrial Bitumen	Flash Point	IS 1448 (Part 69)
67	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen/Industrial Bitumen	Kinematic Viscosity	IS 1206 Part 3
68	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen/Industrial Bitumen	Solubility in Trichloroethylene	IS 1216
69	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen/Industrial Bitumen	Specific Gravity	IS 1202
70	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimension (length)	IS 1077
71	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions (Height)	IS 1077
72	MECHANICAL- BUILDINGS MATERIALS	Bricks	Dimensions (Width)	IS 1077
73	MECHANICAL- BUILDINGS MATERIALS	Bricks	Efflorescence	IS 3495 (part 3)
74	MECHANICAL- BUILDINGS MATERIALS	Bricks	Water Absorption	IS 3495 (part 2)
75	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	5 Hours Boiling Water Absorption	IS 3495 (part 2)
76	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	Determination of Warpage	IS 3495 (Part 4)
77	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Building Bricks	DETERMINATION OF WATER ABSORPTION - Saturation Coefficient	IS 3495 (Part 2)



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 5 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
78	MECHANICAL- BUILDINGS MATERIALS	cement	Compressive Strength	IS 4031 (part 6)
79	MECHANICAL- BUILDINGS MATERIALS	cement	Consistency	IS 4031 (part 4)
80	MECHANICAL- BUILDINGS MATERIALS	cement	Density (specific gravity)	IS 4031 (part 11)
81	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness Blaine air permeability method	IS 4031 (part 2)
82	MECHANICAL- BUILDINGS MATERIALS	Cement	Fineness by Dry Sieving	IS 4031 (part 1)
83	MECHANICAL- BUILDINGS MATERIALS	cement	Setting time (Final)	IS 4031 (part 5)
84	MECHANICAL- BUILDINGS MATERIALS	cement	Setting time (Initial)	IS 4031 (part 5)
85	MECHANICAL- BUILDINGS MATERIALS	cement	soundness Autoclave method	IS 4031 (part 3)
86	MECHANICAL- BUILDINGS MATERIALS	cement	Soundness Le-Chatelier method	IS 4031 (part 3)
87	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Flatness	IS 1237
88	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Perpendicularity	IS 1237
89	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Resistance to wear	IS 1237
90	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Straightness	IS 1237
91	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Thickness of Wearing Layer	IS 1237
92	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Flooring Tiles	Wet Transverse Strength	IS 1237
93	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Breaking Strength	IS 13630 (Part 6)
94	MECHANICAL- BUILDINGS MATERIALS	ceramic tiles	Bulk Density	IS 13630 (part 2)
95	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Crazing Resistance	IS 13630 (Part 9)
96	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Modulus of Rupture	IS 13630 (part 6)

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**National Accreditation Board for
Testing and Calibration Laboratories**

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Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 6 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
97	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Rectangularity	IS 13630 (PART 1)
98	MECHANICAL- BUILDINGS MATERIALS	Ceramic Tiles	Straightness of sides	IS 13630 (Part 1)
99	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Flatness	IS 13801
100	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Perpendicularity	IS 13801
101	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Resistance to Wear	IS 13801
102	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Straightness	IS 13801
103	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Thickness of wearing layer	IS 13801
104	MECHANICAL- BUILDINGS MATERIALS	Chequered Cement Concrete Tiles	Wet Transverse Strength	IS 13801
105	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	10% Fines value	IS 2386 (part 4)
106	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Abrasion value	IS 2386 (part 4)
107	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk Density	IS 2386 (part 3)
108	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Coal and Lignite	IS 2386 (part 2)
109	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Combined Flakiness and Elongation Index	IS 2386 Part 4
110	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS 2386 (part 4)
111	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Deleterious Material Clay Lumps and Soft Fragments	IS 2386 (part 2)
112	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Determination of material finer than 75 micron	IS 2386 (part 1)
113	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386 (part 1)
114	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS 2386 (part 1)
115	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Impact Value	IS 2386 (part 4)

This is annexure to 'Certificate of Accreditation' and does not require any signature.



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 7 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
116	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Moisture Content	IS 2386 (Part 3)
117	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis (Sieve Size: 80 mm, 63 mm, 40 mm, 20 mm, 16 mm, 12.5 mm, 10 mm, 4.75 mm, 2.36 mm)	IS 2386 (Part 1)
118	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by MgSo ₄	IS 2386 (part 5)
119	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by Na ₂ So ₄	IS 2386 (part 5)
120	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific Gravity	IS 2386 (part 3)
121	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water Absorption	IS 2386 (part 3)
122	MECHANICAL- BUILDINGS MATERIALS	Concrete	Slump	IS 1199
123	MECHANICAL- BUILDINGS MATERIALS	Concrete Cores	Compressive strength of Concrete Cores	IS 516 Part 4
124	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516 Part 1 sec 1
125	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Abrasion Resistance	IS 15658 Annex E
126	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Flexural Strength	IS 15658
127	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Freeze Thaw Durability	IS 15658 Annex H
128	MECHANICAL- BUILDINGS MATERIALS	Concrete Paving Blocks	Tensile Splitting Strength	IS 15658 Annex F
129	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk Density	IS 2386 (part 3)
130	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Coal and Lignite	IS 2386 (part 2)
131	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Deleterious material clay lumps	IS 2386 (part 2)
132	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Determination of material finer than 75 micron	IS 2386 (part 1)
133	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic Impurities	IS 2386 (part 2)



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 8 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

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134	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis (Sieve Size: 10 mm, 4.75 mm, 2.36 mm, 1.18 mm, 600 micron, 300 micron, 150 micron, 75 micron)	IS 2386 (Part 1)
135	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSo4	IS 2386 (part 5)
136	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness Soundness by Na2So4	IS 2386 (part 5)
137	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Specific Gravity	IS 2386 (part 3)
138	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Surface Moisture	IS 2386 (Part 3)
139	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water Absorption	IS 2386 (part 3)
140	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Compressive Strength	IS 15658
141	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension (Height)	IS 15658
142	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimension (Length)	IS 15658
143	MECHANICAL- BUILDINGS MATERIALS	Paver Blocks	Dimensions (Width)	IS 15658
144	MECHANICAL- BUILDINGS MATERIALS	Paver blocks	Water Absorption	IS 15658
145	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Bulk Density	IS 6441 (Part 1)
146	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Compressive Strength	IS 6441 (Part 5)
147	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Dimension (Length)	IS 6441 (Part 3)
148	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Dimensions (Height)	IS 6441 (Part 3)
149	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Dimensions (Width)	IS 6441 (Part 3)
150	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Drying Shrinkage	IS 6441 (Part 2)
151	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Moisture Content	IS 6441 (Part 1)



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 9 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

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152	MECHANICAL- BUILDINGS MATERIALS	Precast Autoclaved Cellular (Aerated) Concrete Blocks	Thermal Conductivity	IS 3346
153	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles	Chemical properties - Resistance to acid and alkalies	IS 13630 (Part 8), IS 15622
154	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles	Dimension (Thickness)	IS 13630 (Part 1)
155	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles	Dimension (Width)	IS 13630 (Part 1)
156	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles	Dimensions (length)	IS 13630 Part 1
157	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles	scratch hardness of surface	IS 13630 part 13
158	MECHANICAL- BUILDINGS MATERIALS	Pressed ceramic tiles	Water Absorption	IS 13630 Part 2
159	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Compressive Strength (At 28 days w.r.t. control sample)	IS 1727
160	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Final Setting Time	IS 1727
161	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Fineness by Blaine's Permeability Method	IS 1727
162	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Initial Setting Time	IS 1727
163	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Lime Reactivity	IS 1727
164	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Particle retained on 45 micron IS sieve (wet Sieving)	IS 1727
165	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Soundness by Autoclave Expansion	IS 1727
166	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Soundness by Le-Chatelier Expansion	IS 1727
167	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash	Specific Gravity	IS 1727
168	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	24 Hours water absorption	IS 3495 (part 2)
169	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	5 Hours boiling water absorption test	IS 3495 (Part 2)
170	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Compressive Strength	IS 3495 (Part 1)



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 10 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
171	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimension (Height)	IS 12894
172	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimension (Width)	IS 12894
173	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Dimensions (Length)	IS 12894
174	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Efflorescence	IS 3495 (Part 3)
175	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash Lime Bricks	Saturation Coefficient	IS 3495(Part 2)
176	MECHANICAL- BUILDINGS MATERIALS	Tiles cement concrete flooring tiles (plain cement/plain coloured/ terrazzo)	Dimensions (Width)	IS 1237
177	MECHANICAL- BUILDINGS MATERIALS	Tiles cement concrete flooring tiles (plain cement/plain coloured/ terrazzo)	Dimensions (Thickness)	IS 1237
178	MECHANICAL- BUILDINGS MATERIALS	Tiles cement concrete flooring tiles (plain cement/plain coloured/ terrazzo)	Dimensions (length)	IS 1237
179	MECHANICAL- BUILDINGS MATERIALS	Tiles cement concrete flooring tiles (plain cement/plain coloured/ terrazzo)	water absorption	IS 1237
180	MECHANICAL- BUILDINGS MATERIALS	Tiles Chequered cement concrete tiles	Dimensions (length)	IS 13801
181	MECHANICAL- BUILDINGS MATERIALS	Tiles Chequered cement concrete tiles	Dimensions (Thickness)	IS 13801
182	MECHANICAL- BUILDINGS MATERIALS	Tiles Chequered cement concrete tiles	Dimensions (Width)	IS 13801
183	MECHANICAL- BUILDINGS MATERIALS	Tiles Chequered cement concrete tiles	water absorption	IS 13801
184	MECHANICAL- BUILDINGS MATERIALS	TMT bar	Tensile Stress	IS 1608 Part 1
185	MECHANICAL- BUILDINGS MATERIALS	TMT bars	Bend Test (Fe 500 and Fe 500 D)	IS 1599
186	MECHANICAL- BUILDINGS MATERIALS	TMT bars	Elongation	IS 1608 part 1
187	MECHANICAL- BUILDINGS MATERIALS	TMT bars	Rebend Test (Fe 500 and Fe 500 D)	IS 1786
188	MECHANICAL- BUILDINGS MATERIALS	TMT bars	Total Elongation	IS 1608 part 1
189	MECHANICAL- BUILDINGS MATERIALS	TMT bars	Weight per metre	IS 1786



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 11 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
190	MECHANICAL- BUILDINGS MATERIALS	TMT bars	Yield Strength	IS 1608 part 1
191	MECHANICAL- BUILDINGS MATERIALS	TMT bars	Yield Stress	IS 1608 part 1
192	MECHANICAL- SOIL AND ROCK	Soil	CBR (Soaked)	IS 2720 (part 16)
193	MECHANICAL- SOIL AND ROCK	Soil	CBR Unoaked	IS 2720 (Part 16)
194	MECHANICAL- SOIL AND ROCK	Soil	Consolidation - Compression index (CC)	IS 2720 part 15
195	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test-Angle of internal friction	IS: 2720 (Part 13)
196	MECHANICAL- SOIL AND ROCK	Soil	Direct shear test-Cohesion (C)	IS 2720 part 13
197	MECHANICAL- SOIL AND ROCK	Soil	Free Swell Index	IS 2720 (part 40)
198	MECHANICAL- SOIL AND ROCK	Soil	Grain Size distribution (4.75 mm to 0.002 mm)	IS 2720 (Part 4)
199	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction test MDD	IS 2720 (part 8)
200	MECHANICAL- SOIL AND ROCK	Soil	Heavy Compaction test OMC	IS 2720 (part 8)
201	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction test MDD	IS 2720 (part 7)
202	MECHANICAL- SOIL AND ROCK	Soil	Light Compaction test OMC	IS 2720 (part 7)
203	MECHANICAL- SOIL AND ROCK	Soil	Liquid Limit	IS 2720 (part 5)
204	MECHANICAL- SOIL AND ROCK	Soil	Moisture Content	IS 2720 (part 2)
205	MECHANICAL- SOIL AND ROCK	Soil	Plastic Limit	IS 2720 (Part 5)
206	MECHANICAL- SOIL AND ROCK	Soil	Plasticity Index	IS 2720 (part 5)
207	MECHANICAL- SOIL AND ROCK	Soil	Shrinkage Index	IS 2720 (part 6)
208	MECHANICAL- SOIL AND ROCK	Soil	Specific Gravity	IS 2720 (part 3) Section 1



**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045
Validity 21/12/2021 to 20/12/2023

Page No 12 of 13
Last Amended on 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
209	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Carbonation Depth Test	IS 516 (Part 5/Sec3)





**National Accreditation Board for
Testing and Calibration Laboratories**

SCOPE OF ACCREDITATION

Laboratory Name : LABORATORY DIVISION - DR. GHUMAN AND GUPTA GEOTECH CONSULTANTS, F-81, PHASE 7, INDUSTRIAL AREA, MOHALI, S.A.S NAGAR, PUNJAB, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5045 **Page No** 13 of 13
Validity 21/12/2021 to 20/12/2023 **Last Amended on** 08/02/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Site Facility				
1	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	reinforced concrete structure	compressive strength rebound hammer test	IS 516 part 5 sec 4
2	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structure	Pile Integrity Test	IS 14893
3	NON-DESTRUCTIVE-BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Ultra Pulse Velocity Test	Ultra Pulse Velocity TEST	IS 516 (Part 5/Sec1)

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.

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GGGCLABORATORIES.COM

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.



**PARTIAL LIST OF SOME OF OUR MAJOR CLIENTS (GOVT.
DEPARTMENTS)**

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1. Central Public Works Department
2. Military Engineering Services
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

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16. BPCL
17. Improvement Trust, Punjab
18. IOCL
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

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- 34. PWD B&R Haryana
- 35. HP Housing and Urban Dev. Authority
- 36. National Buildings Const. Corpn. Ltd.
- 37. Postal Civil Division
- 38. Power Grid Corpn. Of India



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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

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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

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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

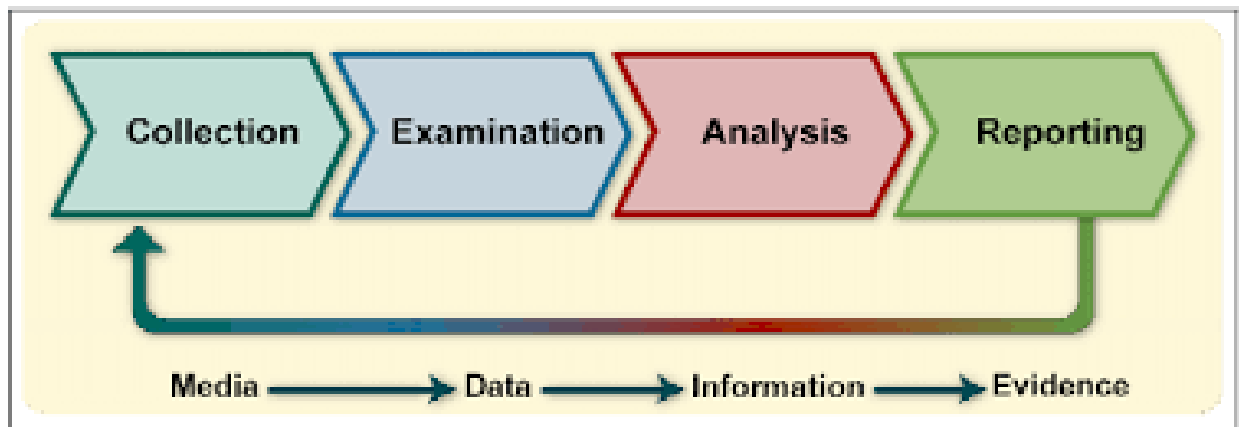
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HIGHLIGHTS

- 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



FERRO SCANNING TEST



DYE PENETRATION TEST

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



A TEAM IN PURSUIT OF EXCELLENCE

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CHANDIGARH POLICE CYCLATHON PARTICIPATION



DOUBLE HOOKED STEEL FIBRE USED IN CONCRETE



SURVEY IN HIMACHAL PRADESH

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WORKS AT BRO LEH



SOIL INVESTIGATIONS



SITE INSPECTION



**CERTIFICATE OF PARTICIPATION AT
NCB BALLABGARH**



REBOUND HAMMER TEST



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FERRO SCANNING TEST PROPOSED CHANDIGARH FLY OVER



EARTH RESISTIVITY TEST & HYDROLOGICAL SURVEY

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TRAINING ON DECISION RULE



CONCRETE CORE CUTTING



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

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CONCRETE RESISTIVITY TEST
MUMBAI CARBON



TRAINING BY MR. ABHAY FROM

SULPHUR APPARATUS



TRAINING AT NCB BALLAGBARH
MACHINE

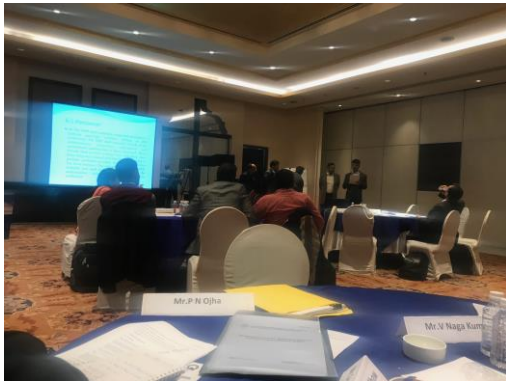


AUTOMATIC COMPRESSION TESTING

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



SOIL INVESTIGATIONS AT LOMA 150 KM FROM LEH

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K VALUE TEST



IN HOUSE TRAINING AT GGGC



**IDENTIFICATION OF PAVEMENT
LAYERS**



**SOIL SAMPLE FOR
CBR TEST**

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INSPECTION OF FOOTING SOIL INVESTIGATIONS WORK AT TRIBUNE CHOWK CHANDIGARH

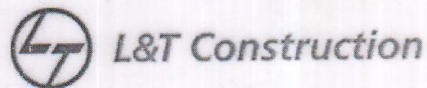


**CARBONATION
DEPTH**



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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. Tinsah)
Project Manager
Retrofitting Project,
Chandigarh

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Office of the Executive Engineer, SPK Dam Power House-2 & Allied Works,
Shahpurkandi T/Ship (E-mail :- spkdam2@gmail.com)

Allotment

No 1136-41/1-w/K.C

Date 17/3/21

To

✓
DR. Ghuman and Gupta Geotech consultants,
NABL Approved Laboratory,
F-81, Phase VII Industrial Focal Point,
Mohali, (PB) 160055.

Subject:-

Subsurface Geotechnical investigation required for finalization of the structural Design of Barrel and its related works to feed Kashmir Canal from 8 MW TRC near existing Madhopur Headworks.

Ref:-

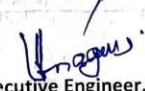
Your office letter No. GGGC/Q-230221/5/2020-2021 dated 23.02.2021.

As approved by Chief Engineer/WR Department Punjab Shahpurkandi Township Vide No. 1774-78/SPKW-112-KC dated 10/03/2021, your offer has been found lowest and accepted for carrying out the Geotechnical investigation for the above mentioned subject assignment at a cost of Rs.7,37,500/- (Rupees Seven Lakh Thirty Seven Thousand Five hundred only) including GST and further the Geotechnical investigation work should be completed during the ongoing shut down period i.e upto 31/03/2021.

The detail of work and its lowest offered cost is as under:-

Job Assignment	Rates offered
Drilling Machine Boring of investigation bore holes of 75MM to 100mm dia in all types of strata including carrying out standard penetration Test at an interval of 1.5m as per IS-2131-1981, including collection of various disturbed/undisturbed soil samples at suitable intervals and their complete laboratory testing as per Indian Standards for classification of soil and determination of various index and engineering properties of soil to base the Allowable bearing capacity on shear strength as well as on settlement considerations. This shall include collection and chemical testing of water sample if met in the borehole, logging of borehole and submission of test report including recommendation of safe bearing capacity upto 25.0m depth EGL (5 NO. Bore Holes)	Rs. 6250000.00 Plus GST@18% Total amounting to .7,37,500/- (Rupees Seven Lakh Thirty Seven Thousand Five hundred only)

You are as such requested to start the assignment immediately.


Executive Engineer,
SPK Dam PH-2 & Allied works
Shahpurkandi Township.

C.C:-

1. Chief Engineer, Dams SPKD water Resources Deptt. Punjab Shahpurkandi Township for information.
2. Superintending Engineer, SPK Power House Circle, Shahpurkandi Township for information.
3. FA & CAO SPKD/RSD Shahpurkandi for information
4. Sub Divisional officer, SPK Dam Power House 2 Sub Division No. 1 And 2 Shahpurkandi township for information

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THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

Thapar Technology Campus, Bhadson Road
Patiala-147004, Punjab India
Phone: +91 175 2393869.70
Email: Mandeep.bhardwaj@thapar.edu
URL: Thapar.edu

WO.No.TIET/CS/MB/20-21/20201
Dept.:CMS-TSLAS
Date: October 15, 2020

M/s. Dr.Ghuman and Gupta Geotech Consultants
F-81, Industrial Area,Phase VII, Mohali
Punjab-160055

Kind Attention: Mr.Inderjeet
Mob: +91 9815440828, email: labgggc@gmail.com

Subject: Work Order To Ascertain the Structural Stability of Existing old Library Building at
Thapar Institute of Engineering & Technology, Patiala.

Ref: Your offer dated 12/10/2020 after your visit for site inspection and discussion with Mr.Anil
Singla.

Dear Sir,

With reference to your final offer after discussion we are pleased to release this Work Order with
following terms & conditions:

1. Scope of Work & Obligations

- i) The detailed Scope of Work is specified in **Annexure - I**.
- ii) You shall undertake to perform all activities at our site in terms of this Work Order to our
entire satisfaction or any nominated third Party.
- iii) All relevant documents shall be submitted after completion of work under this Work Order.
Any inspection/monitoring/presence/test certificate issued/submitted, shall not absolve you
from your contractual obligations under this Work Order.
- iv) You shall perform the Work as per terms of this work order.to our satisfaction. In case any
work or portion of work is found unsatisfactory in our opinion then you shall redo the same
at your cost and expense.
- v) For any additional services, the parties shall decide as per the terms of the contract.
- vi) All the correspondence and documentation including commercial documentation must be in
English language.

TIET/CS/MB/20-21/20201

Page 1 of 9

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