



Estd2007

## **SUPERIOR LABS HYDERABAD PVT LTD**

Formerly known as Superior Labs

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### **About Us**

The Strength of the group lies in its Dedicated, Multi Discipline Professionals, innovative management and labs equipped with Sophisticated Equipments / Instruments.

**'Superior Labs Hyderabad Pvt Ltd'** culture is grounded in integrity & respect. This means holding the highest standards of Ethical Business Culture. This Reputation for Adhering to these Standards has created a faith in its customers and helped in Maintaining an unbreakable bond with more than 200 clients within a short span.

### **Objectives**

- To establish a centre of excellence in the field of Testing.
- Complying to IS standards, Codes and MORT&H requirements.
- Development of our facilities and training personnel.
- Continually improving our processes and services.
- To team up with reputed Educational and Research Organizations and Organize Collaborative programs for promotion of research and training pertaining to the Construction materials.

### **Organizations providing recognition**

- Superior Labs is Accredited by NABL as per ISO: 17025-2017 for Mechanical Testing.

### **Our field of activities includes:**

- Laboratory and field testing of Construction materials and components.
- Core test for RC Structures & CC Pavements (Semi-destructive Test).
- Geotechnical Investigation.
- Third Party Quality Assurance of Construction activities.

### **Laboratory and field testing of Construction materials and components**

- Carrying out laboratory tests on building materials such as cement, aggregate, brick, block, bituminous mix, timber, rebar, etc. as per relevant Indian Standards.
- Concrete mix proportioning for strength, workability and durability for varying applications.

### **Core test for RC structures, Pavements etc. (Semi-destructive Test)**

- Extraction and Testing of Concrete Cores for assessment of Quality and Strength of in-situ concrete for RC structures, CC Pavements, CC Lining etc.,
- Extraction and Testing of Bitumen Cores for assessment of Density of Bituminous Layers.

### **Geotechnical Investigation**

- Investigation by drilling Bore Holes, conducting Field Tests, collecting Samples carrying out Laboratory Tests and furnishing Report with Recommendations.
- Conducting Tests for Compaction and Quality Control in Earth Works, CBR Test for Soil.

### **Third Party Quality Assurance of construction activities.**

- Setting up a team of Engineers at site or carrying out periodic site visits depending on site requirement for quality inspection.
- Checking of materials of construction and review of test reports, collecting samples at site, if necessary to examine the quality.
- Quality inspection of Materials and works including Form work, fabrication, Concreting and Finishes.
- Furnishing periodic reports on quality aspects to the client.

## **Our Esteemed Clients**

### **Government:**

1. Roads & Buildings Department
2. Irrigation Department
3. Panchayat Raj Department
4. Vigilance & Enforcement
5. Public Health
6. GHMC
7. TSMSIDC
8. HMDA
9. Endowments Dept
10. Housing Corporation Limited
11. Police Housing Corporation Limited
12. TSIIC Limited
13. Agricultural Marketing Department
14. EWIDC,
15. Hyderabad Metro Rail
16. Rural Water Supply
17. HMWS & SB
18. TRANSCO
19. GENCO
20. South Central Railway
21. Tribal Welfare,
22. BDL
23. Irrigation Development Corporation
24. HRDCL

### **Private:**

1. ACC
2. Megha Engineering Infrastructure
3. PLR Projects Pvt. Ltd.
4. Sri Sai Constructions
5. Meda Narsimhulu & Co.,
6. GKC Projects
7. Nagarjuna Hi -Tech
8. Anitha Constructions
9. JMC Projects
10. Shivam Road & Infra structures
11. RAUS Constructions Pvt Ltd.
12. JSR Constructions Pvt. Ltd.
13. GVR Infra Projects
14. ASIP-AMRCL (J.V)
15. L&T
16. Siddartha Constructions Pvt. Ltd.
17. Jaypee Projects Limited
18. Aparna Infra Pvt. Ltd. and
19. Navayuga Engineering
20. Manikanta Constructions
21. Megha Engg & Infrastructure Ltd
22. Devi Constructions
23. Sri Vasista Constructions
24. Poulami Infra
25. KSR Constructions

### List of Facilities:

Sl. No.	Material	Name of Tests	Quantity of samples required for test			
1	Bituminous Mixes	Sieve Analysis	10 Kgs			
		Bitumen Content				
		Density by Core Extraction	Each Layer			
		Bitumen Job Mix Formula	20 Kgs of each size of sieve			
2	Bricks/Fly	Water Absorption	5 $\geq$ No's			
		Compressive Strength				
		Efflorescence				
3	Cement	Physical Properties	20 Kgs.			
4	Coarse Aggregate	Sieve Analysis	25 Kgs.			
		Specific Gravity				
		Bulk Density				
		Flakiness & Elongation Index				
		Water Absorption				
		Impact Value				
		Crushing Value	25 Kgs.			
		Aggregate Abrasion Value				
		Soundness Loss				
		Petro graphic Test				
Potential Alkali Silica Reactivity test (Mortar Bar Method as per ASTM C 1260)						
5	Fine Aggregate	Sieve Analysis	25 Kgs			
		Specific Gravity				
		Bulk Density				
		Bulking & Moisture Content				
		Silt Content				
		Water Absorption				
		Materials Finer than 75 $\mu$				
		Organic Impurities				
		Soundness Loss				
		Petro graphic Test				
		Potential Alkali Silica Reactivity test (Mortar Bar Method as per ASTM C 1260)				
		6		Concrete Cores	Extraction & Testing	03Nos.
					Extraction	
7	Concrete Blocks	Water Absorption				
		Compressive Strength				
		Density				
8	Concrete Cubes	Compressive Strength				
9	Concrete Mix Design	Each grade	Cement - 1 Bag FA- 1 Bag CA- 1 Bag (each size)			
10	Granular Sub Base (GSB)	Sieve Analysis	60 Kgs			
		Atterberg limits				
		Specific gravity				
		Water absorption				
		OMC&MDD				
		Job Mix Formula				
		Density by Sand Replacement				

11	Wet Mix Macadam	Sieve Analysis	60 Kgs
		Specific gravity	
		Water absorption	
		OMC&MDD	
		Job Mix Formula	
	Density by Sand Replacement		
12	Paver Blocks	Water Absorption	11 No's
		Compressive Strength	
13	Reinforcing Steel	Mass /Running meter	3 Nos of 1.0 Meter
		Tensile Test	
		Bend Test	
		Rebend Test	
		Chemical Properties	
14	Soil	Grain Size Analysis	60 Kgs.
		Liquid Limit & Plastic Limit	
		OMC & MDD	
		CBR	
		SBC	
		Swell Pressure (including Grain Size Analysis, LL,PL,OMC,MDD)	
		Free Swell Index	
		Organic Impurities	
		Specific Gravity	
		Void Ratio	
		Permeability	
		100% Saturation	
15	Structural Steel	Tensile Test	0.5 Mt-1 No. 0.3 Mt-1 No.
		Bend Test	
		Chemical Properties	
16	Water	Suitability for Concrete	1.0 Lt
17	SPT	SBC	Un-Disturbed