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SUPERIOR LABS HYDERABAD PVT LTD.

(Formerly Known as Superior Labs)

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SUPERIOR LABS HYDERABAD PVT LTD LABS

Established in April 2007

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 and unbreakable bond with more than 100 clients within a short span.

Objectives

- To establish a center 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 Hyderabad Pvt Ltd. is accredited by NABL as per ISO/IEC: 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, aggregates, bricks, blocks, bituminous mixes, 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 test 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.
- Providing site training on quality aspects of constructions.

Our Esteemed Clients

Government:

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

Private:

1. ACC
2. Prathima Infrastructure Pvt. Ltd.,
3. PLR Projects Pvt. Ltd.
4. Sri Sai Constructions
5. Meda Narsimhulu & Co.,
6. GKC Projects
7. Nagarjuna Hi -Tech
8. Cemtech Tiles & Pavers
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. Anitha Constructions
26. KSR Constructions

LIST OF FACILITIES

Sl. No.	Material	Name of Tests	IS Standards	Quantity of samples required for test
1	Bituminous Mixes	Sieve Analysis	IRC: SP 11 –1988 (Appendix – 5), ASTM D 2172. MORT & H (5 th Revision) / MOSRT & H (4 th Revision)	10 Kgs
		Bitumen Content		Each Layer
		Density by Core Extraction		20 Kgs of each size of sieve
		Bitumen Job Mix Formula		
2	Bricks/Fly	Water Absorption	IS 3495 (Part 1 to 4) : 1992 RA- 2016	05 No's
		Compressive Strength	IS 1077 : 1992RA-2016	05 No's
		Efflorescence	IS 12894 : 2002 RA -2017	05 No's
3	Cement	Physical Properties	IS 4031 (Part 1) : 1996 RA -2016 IS 4031 (Part 2) : 1999 RA -2018 IS 4031 (Part 3 to 6) : 1988 RA-2014 IS 269 : 2015 IS 1489 (Part 1) : 2015 IS 1489 (Part 2) : 2015	20 Kgs.
4	Coarse Aggregate	Sieve Analysis	IS 2386 (Part 1 to 8) : 1963 RA -2016 IS 383 : 2016 Mortar Bar Method as per ASTM C 1260)	30 Kgs.
		Specific Gravity		
		Bulk Density		
		Flakiness & Elongation Index		
		Water Absorption		
		Impact Value		
		Crushing Value		
		Aggregate Abrasion Value		25 Kgs.
		Soundness Loss		
		Petro graphic Test		
		Potential Alkali Silica Reactivity test		
5	Fine Aggregate	Sieve Analysis	IS 2386 (Part 1 to 8) : 1963 RA -2016 IS 383 : 2016 Mortar Bar Method as per ASTM C 1260)	25 Kgs.
		Specific Gravity		
		Bulk Density		
		Bulking & Moisture Content		
		Silt Content		
		Water Absorption		
		Materials Finer than 75 μ		
		Organic Impurities		
		Soundness Loss		
		Petro graphic Test		
		Potential Alkali Silica Reactivity test		
6	Concrete Cores	Compressive Strength	IS 516 (Part 4) : 2018 IS 516 (Part 2 / Sec 1) : 2018 IS 456 : 2000 RA-2016	Min 03No's
7	Concrete Blocks	Water Absorption	IS 2185 (Part 1) : 2005 RA -2015	03 No's
		Compressive Strength	IS 2185 (Part 2) : 1983 RA-2015 IS 2185 (Part 4) : 2008 RA-2014	08 No's
		Density		03 No's
8	Concrete Cubes	Compressive Strength	IS 516 : 1959 RA – 2018	03 No's
9	Concrete Mix Design	Upto M-45 Grade	IS 10262 : 2019&IS 456 : 2000 RA-2016	Cement – 1 Bag FA .- 25 kgs CA - 25 kgs (each size)
		Above M-45 Grade		

10	Granular Sub Base (GSB)	Sieve Analysis Atterberg limits Specific gravity Water absorption OMC&MDD Job Mix Formula Density by Sand Replacement	MORT & H(5th Revision) / MOSRT & H(4th Revision) IS 2720 (Part 28) : 1974RA-2015	60 Kgs
11	Wet Mix Macadam	Sieve Analysis Specific gravity Water absorption OMC&MDD Job Mix Formula Density by Sand Replacement		60 Kgs
			IS 2720 (Part 28) : 1974RA-2015	--
12	Paver Blocks	Water Absorption Compressive Strength	IS 16777 : 2019 IS 15658 : 2006 RA -2017	01 No.
13	Reinforcing Steel	Mass /Running meter Tensile Test/Elongation/0.2%proof Bend Test Rebend Test Chemical Properties	IS 1786 : 2008 RA -2018	3 Nos of 1.0 Meter
14	Soil	Grain Size Analysis 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	IS 2720 (Part 1) : 1983 RA-2015 IS 2720 (Part 2) : 1973 RA-2015 IS 2720 (Part 3 / Sec 1) : 1980 RA-2016 IS 2720 (Part 4) : 1985 RA-2015 IS 2720 (Part 5) : 1985 RA-2015 IS 2720 (Part 6) : 1972 RA-2016 IS 2720 (Part 7) : 1980RA-2016 IS 2720 (Part 8) : 1983 RA- 2015 IS 2720 (Part 9) : 1992 RA-2016 IS 2720 (Part 11) : 1993 RA-2016 IS 2720 (Part 12) : 1981 RA-2016 IS 2720 (Part 13) : 1986 RA-2016 IS 2720 (Part 16) : 1987 RA-2016 IS 2720 (Part 17) : 1986 RA-2016 IS 2720 (Part 29) : 1975 RA-2015 IS 2720 (Part 31) : 1990 RA -2015 IS 2720 (Part 40) : 1977 RA-2016 IS 2720 (Part 41) : 1977 RA-2016	60 Kgs.
15	Structural Steel	Tensile Test Bend Test Chemical Properties	IS 2062 : 2011 RA-2016	1.0 M-1 No. 0.5 M-1 No.
16	Water	Suitability for Concrete	IS 456 : 2000 RA-2016	1.0 Lt
17	SPT	SBC	IS 6403 : 1981 RA-2016	Un-Disturbed Sample
18	NDT	Non-destructive Ultrasonic Pluse Velocity Non-destructive Testing of Concrete- Rebound Hammer	IS: 13311-(Part-1)-1992 RA2018 IS: 13311-(Part-2)-1992 RA2018	--