



S.A.P.D. Jain Pathashala

Walchand Institute of Technology, Solapur

An Autonomous Institute

P.B.No.634, Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006 (Maharashtra)

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Department of Civil Engineering Lab Details

Laboratory Name:	Concrete Technology Lab
Lab Description	Major tests conducted in the laboratory: <ol style="list-style-type: none">1. Concrete mix design of various grades2. Physical properties of concrete ingredients3. Workability tests related to concrete such as Compaction factor test, Vee Bee test, Slump test, flow table test etc.4. Nondestructive testing of RCC structures by Rebound Hammer and Ultra Sonic Pulse Velocity5. Detection of reinforcement, concrete cover measurement by Rebar Locator
Lab Equipment	<ol style="list-style-type: none">1. Compaction factor test apparatus2. Flow table machine3. Slump cone apparatus4. Vibrating table5. Vee-Bee test apparatus6. Ultrasonic concrete tester7. Non- Destructive test hammer8. Concrete mixer9. Rebar Locator10. L Box, V Funnel, J Ring.
Lab Floor Area in square meters	118

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Practicals Engaged in Lab	CEMENT TESTING (IS 4031-1988) a) Consistency of cement b) Initial and final setting time of cement c) Soundness test of cement d) Fineness test of cement e) Compressive Strength of cement FINE AGGREGATE TESTING [IS 2386 -1963] a) Sieve analysis b) Determination fine silt c) Determination of specific gravity and water absorption d) Determination of bulk density e) Bulkage COARSE AGGREGATE TESTING [IS 2386 -1963] a) Sieve analysis b) Determination of specific gravity and water absorption c) Determination of bulk density TEST ON FRESH CONCRETE [IS 2386 -1963] a) Slump Cone Test b) Flow Table Test TEST ON HARDENED CONCRETE [IS 516 -1959] a) Compression Test CONCRETE MIX DESIGN a) I. S. Method
Name of Lab Incharge	Mr. Chetan Gourishankar Konapur
Associated Faculty with the lab	1. Mr. Satish Basavaraj Thalange 2. Mrs. Shailaja Amrutlal Doddi
Name of Lab Assistant	Mr. Dattatray Murlidhar Khandare
Name/s of Menial Staff	Mr. N. R. Shivashetti