

Material Testing Laboratory



Quality control/quality assurance through materials testing and inspection provides the evidence needed to establish confidence to all concerned that the materials and techniques used are in compliance with the general intent of plans and specifications of the project.

AES materials testing laboratories are the first choice when you require testing by an independent testing organization & advice on quality of the materials.

Brief Profile

Established in 1983, AES Laboratories (P) Ltd., today is one of the leading multi disciplinary laboratories in the country, providing quality analytical services to national and international clients. Our clients range from industries to institutions, multi-national organizations and various government organizations. The services offered cover a vast field of analysis including materials, environment, microbiology, petroleum, food and various chemicals. The laboratory is situated at Noida with the marketing and sample collection office is situated at Nehru Place, New Delhi.

With a staff strength of around 100 including highly qualified professionals including high, and an inventory of highly sophisticated instruments, AES is truly a global laboratory. The laboratory is accredited to NABL under ISO/IEC 17025 and is recognized by major organizations like BIS, Export Inspection Council (EIC), APEDA and MOEF to name a few. The Materials laboratory at AES has been consistently partnering major government and private organizations in quality control testing for various projects all across northern India. The range of testing services include:

I. Quality testing of construction materials

- ◆ Cement & Cementitious materials like cement (like OPC, PPC, PSC), flyash, lime, mortar, micro silica etc.
- ◆ Aggregates (coarse and fine) for concrete and road constructions
- ◆ Concrete cubes, paver blocks, kerb stones & ratio of ingredients of fresh as well as hardened concrete and mortar.
- ◆ Admixtures and water proofing compounds





- ◆ Bricks like clay bricks, refractory bricks & flyash bricks
- ◆ Flooring materials like ceramic tiles, vitrified tiles, concrete flooring tiles etc
- ◆ Soil testing for geotechnical investigations
- ◆ Bituminous materials like paving bitumen, industrial bitumen, mastic, bituminous emulsions, polymer modified bitumen (PMB), crumb rubber modified bitumen (CRMB) & natural rubber modified bitumen (NRMB)
- ◆ Aggregates (coarse and fine) for concrete and road constructions
- ◆ Metals including steel (reinforcement bars), aluminum etc for construction as well as structural purposes
- ◆ Pipes & pipe fittings (ms tubes, pvc, upvc, hdpe)
- ◆ Timber and timber products
- ◆ Other miscellaneous products used for construction purposes like bentonite, curing compounds various type of grouts etc



2. Design Mix Services

- ◆ Design mix services are available for various types of concreting requirements based on national and international design criteria and methodologies. Services are available for normal concrete, high strength concrete, fiber reinforced concrete, dry lean concrete and pavement quality concrete.

3. Paving material testing services for rigid and flexible pavements

- ◆ Soil for pavement designs
- ◆ Granular sub-base
- ◆ Wet mix macadam, Water bound macadam
- ◆ BM, DBM, BC & SDBC

4. On-site services

- ◆ Drilling & testing of concrete cores for both structure and rigid pavement. A large range of core diameters are available up to a maximum of 250 mm.
- ◆ Drilling & testing of cores for flexible pavements
- ◆ In-situ density/compaction of soil using core cutter or sand replacement methods

5. Non-destructive services

- ◆ Strength and quality assessment of in-situ concrete including techniques like rebound hammer and ultrasonic pulse velocity.
- ◆ Assessment of cover thickness and location of rebars
- ◆ Assessment of carbonation in concrete cover & corrosion on rebars

Sample collection services are available through our mobile vans. To speak to our representative or for arranging collection of your samples, please get in touch with us at:

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