

ST. THOMAS INSTITUTE FOR SCIENCE AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

Equipment for Concrete Laboratory

Sl. No:	Particulars	Quantity
1	Vicat apparatus, complete set with base plate, tamping rod	2 nos.
2	90 μ size sieve for fineness test of cement	1 no.
3	GI sieve set, 80mm, 40mm, 20mm, 10mm and 4.75mm with pan and lid, 30cm Φ	1 set
4	Brass sieves, 4.75mm, 1.18mm, 600 μ , 300 μ , 150 μ with pan and lid, 20cm Φ	1 set
5	Sieve shaker with attachment for both GI and Brass sets	1 no.
6	Pycnometer	1 no.
7	Bulk Density measure	1 set
8	Bulking measure	1 set
9	Slump test apparatus, complete set	1 set
10	Vee Bee Consistometer	1 no.
11	Flow Table (manual type)	1 no.
12	Compaction Factor apparatus	1 no.
13	Moulds for concrete cubes (150mm size)	9 nos.
14	Moulds for concrete cubes (100mm size)	6 nos.
15	Moulds for concrete cylinders (150mm Φ , 300mm height)	3 nos.
16	Beam moulds (150mm x 150mm x 700mm)	3 nos.
17	Beam moulds (100mm x 100mm x 500mm)	3 nos.
18	Moulds for mortar cubes (70.7mm size)	6 nos.
19	Mortar cube vibrating machine	1 no.
20	Concrete Penetrometer (Spring type)	1 no.
21	Rebound Hammer Kit complete	1 no.
22	3000 kN capacity Compression Testing Machine (Analogue type), Electrically operated pumping unit	1 no.
23	1000 kN capacity Compression Testing Machine (Analogue type), Electrically operated pumping unit	1 no.
24	1000 kN capacity Compression Testing Machine (Analogue type), Electrically operated pumping unit, platens for testing of bricks	1 no.
25	100 kN capacity Flexural strength testing machine, flexural attachment for two point loading on 500mm and 700mm long beams	1 no.
26	Blaine's Air Permeability Apparatus	1 no.
27	Length gauge for elongation index	2 nos.
28	Thickness gauge for Flakiness index	2 nos.

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29	Sieve set for elongation and flakiness, 63,50,40,31.5,25,20,16,12.5 & 10mm	1 set
30	Aggregate Crushing Value apparatus	1 no.
31	Tamping rod (16mm Φ , 60cm long, bullet pointed end)	2 nos.
32	Common balance with weight set up to 5 kg	1 no.
33	Common balance with weight set up to 10 kg	1 no.
34	Platform Balance to weigh up to 100 kg	1 no.
35	Balance with digital display to weigh up to 2.5 kg	1 no.
36	Longitudinal compressometer (longitudinal strain measuring unit)	1 no.

Note: For all items quoted, detailed specifications are to be supplied including technical brochures.

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23/08/2011

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