

INFRATEST INVESTIGATION AND RESEARCH CENTRE PVT. LTD.

LIST OF EQUIPMENTS

S. No.	Name Of Equipment	Equipment ID	Model/Type/ Year Of Make	Range and Accuracy
1	Vicat Apparatus (Scale)	ITIRC/MECH/01	Aimil	0-40mm LC=1mm
2	Humidity Chamber	ITIRC/MECH/02-1	SSI	Temp. 5-50°C, LC=0.1°C RH 40-95% LC=1%
3	Humidity Chamber	ITIRC/MECH/02-2	SSI	Temp. 5-50°C, LC=0.1°C RH 40-95% LC=1%
4	CTM	ITIRC/MECH/03-1	Rama Engineering Works	1-2000KN, LC=0.1KN
5	CTM	ITIRC/MECH/03-2	-	1-500KN, LC=0.1KN
6	LC-Water bath	ITIRC/MECH/06	SSI	Ambient to 100°C, LC=0.1°C,
7	Digital Vernier Caliper	ITIRC/MECH/07-1	Insize	0-300 mm, LC=0.01 mm
8	Digital Vernier Caliper	ITIRC/MECH/07-2	Insize	0-150 mm, LC=0.01 mm
9	Length Comparator (Dial gauge)	ITIRC/MECH/08	ASAHI	0-5 mm, LC=0.002 mm
10	Flow Table	ITIRC/MECH/09		100 rpm (25 drop at 15 sec.)
11	Planetary Mixture Machine	ITIRC/MECH/10	SSI	135 – 145 rev ,275 – 295 rev
12	Cement Autoclave	ITIRC/MECH/11	SSI	0-42 kg/cm ² , LC = 0.4 kg/cm ² 0-250°C, LC=0.1°C
13	MOR Machine	ITIRC/MECH/12	-	Upto 50000N, LC=2N
S. No.	Name Of Equipment	Equipment ID	Model/Type/ Year Of Make/Sr.No	Range and Accuracy
14	Heating & Cooling Curing tank	ITIRC/MECH/13-1	SSI	20-50°C, LC=0.1°C
15	Heating & Cooling Curing tank	ITIRC/MECH/13-2`	SSI	5-50°C, LC=0.1°C

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16	Le-Chatelier flask	ITIRC/MECH/17-1	-	0-24 ml, LC=0.1 ml
17	Le-Chatelier flask	ITIRC/MECH/17-2	-	0-24 ml, LC=0.1 ml
18	Weighing Balance	ITIRC/MECH/19	Mars Digi	0.1 to 6kg, LC=0.1gm
19	Dhona Balance	ITIRC/MECH/20	Dhona	0.0001 to 160gm, LC=0.0001gm
20	Weighing Balance	ITIRC/MECH/21	Mars Digi	Upto 30 kg, LC=0.5 gm
21	Weighing Balance	ITIRC/MECH/22	Mars Digi	Upto 15 kg, LC=0.1 gm
22	Weighing Balance	ITIRC/MECH/23	Citizen	Upto 100 kg, LC=10 gm
23	Specific gravity test Apparatus (Balance)	ITIRC/MECH/24	SSI	15 kg, LC=0.5 gm
24	Hot Air Oven	ITIRC/MECH/28-1	SSI	Ambient to 250°C, LC= 0.1°C
25	Thin Film Oven	ITIRC/MECH/28-2	SSI	Ambient to 250°C, LC= 0.1°C
26	Pycnometer for Sand sp. Gravity	ITIRC/MECH/29-1	SSI	Approx 1 ltr
27	Pycnometer for Sand sp. Gravity	ITIRC/MECH/29-2	SSI	Approx 1 ltr
28	Measuring Cylinder	ITIRC/MECH/30-1	Borosil	100ml,LC: 1ml
29	Measuring Cylinder	ITIRC/MECH/30-2	Borosil	100ml, LC: 1ml
30	Measuring Cylinder	ITIRC/MECH/30-3	Borosil	100ml, LC: 1ml
31	Measuring Cylinder	ITIRC/MECH/30-4	Borosil	100ml, LC: 1ml
32	Sieve Shaker Apparatus	ITIRC/MECH/31	SSI	200 to 300 mm
33	Bevel Protractor	ITIRC/MECH/32	Insize	1-360°, LC=5 min.
34	Scratch Hardness	ITIRC/MECH/33	Rocksmins	1to 9 Mohs Hardness Scale
35	Measuring Tape	ITIRC/MECH/35	Freemans	1-5 mtrs. LC=1 mm
36	Measuring Scale	ITIRC/MECH/36	Khyati	1mm to 1000mm LC= 1mm.
37	Measuring Scale	ITIRC/MECH/37	Index	1mm to 300mm LC= 1mm..
38	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-1	SMEW	1.18mm

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39	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-2	SMEW	1.70mm
40	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-3	SMEW	2.36mm
41	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-4	SMEW	3.35mm
42	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-5	SMEW	4.0mm
43	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-6	SMEW	4.75mm
44	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-7	----	5.6mm
45	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-8	----	6.3mm
46	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-9	----	8.0mm
47	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-10	----	9.5mm
48	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-11	----	10.0mm
49	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-12	----	11.2mm
50	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-13	----	12.5mm
51	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-14	----	13.2mm
52	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-15	----	14mm
53	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-16	----	16mm
54	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-1	SMEW	45micron
55	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-2	SMEW	75micron
56	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-3	SMEW	90micron
57	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-4	SMEW	150micron
58	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-5	SMEW	180micron
59	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-6	SMEW	212micron
60	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-7	SMEW	250micron
61	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-8	SMEW	300micron
62	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-9	SMEW	355micron
63	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-10	SMEW	500micron
64	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-11	SMEW	425micron
65	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-12	SMEW	600micron
66	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-13	SMEW	1.0mm
67	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-14	SMEW	1.18mm

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68	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-15	SMEW	2.36mm
69	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-16	SMEW	4.75mm
70	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-17	SMEW	10 mm
71	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-18	SMEW	850micron
72	Test Sieve Brass (20 CM Dia)	ITIRC/MECH/39-19	Optica	2mm
73	Humidity Control Pannel	ITIRC/MECH/40	SSI	10 to 50°C, L.C=0.1°C 40 to 95%,LC=1%
74	Concrete Penetrometer	ITIRC/MECH/41	AMIL	Upto 50kg
75	Universal Penetrometer App.	ITIRC/MECH/42	SMEW	1-40 mm, L.C=0.01 mm
76	Glass Thermometer For Softening Point Apparatus	ITIRC/MECH/43A	Make: Gera, Model: IP60C Sr. No:1015	Range: -02to 80°C, LC:0.2°C
77	Glass Thermometer for Softening Point Apparatus	ITIRC/MECH/43B	Make: Gera, Model: IP61C, Sr. No:1110	Range: 30to 200°C, LC:0.5°C
78	Digital Thermometer	ITIRC/MECH/44	----	-50 to 300°C, L.C=0.1°C
79	Flash and Fire point App.	ITIRC/MECH/45	SMEW	Upto 350°C,
80	Bitumen Extractor	ITIRC/MECH/46	SMEW	NA
81	Ductility App.(Scale)	ITIRC/MECH/47	SSI(Omega)	0-1000mm, LC=1 mm
82	Pycnometer	ITIRC/MECH/48	Borosil	50ml
83	Pycnometer	ITIRC/MECH/48A	Borosil	50ml
84	Stop watch	ITIRC/MECH/51-1	Racer	0-24 hours
85	Stop watch	ITIRC/MECH/51-2	Racer	0-24 hours
86	Micrometer Digital	ITIRC/MECH/52	Insize	0to 25mm, LC= 0.001
87	Water Bath	ITIRC/MECH/53	SSI	Ambient to 100°C, LC= 0.1°C
90	CBR Apparatus (Dial gauge)	ITIRC/MECH/59-1	Aerospace	0-25mm, LC=0.01mm
91	Rapid Moisture Meter	ITIRC/MECH/61	SMEW	1 -25 %, LC=0.5%
92	Weighing Balance (Rapid Moisture Meter)	ITIRC/MECH/61-1	--	Up to 200 g, LC=0.01g
93	Air Entertainment Meter	ITIRC/MECH/62	SMEW	0-30kg/cm ² , LC- 1kg/ cm ²
94	SPT test Apparatus (weight)	ITIRC/MECH/63	SMEW	63.5 kg

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95	Digital thermo Hygrometer	ITIRC/MECH/64	HTC	Temp. upto 50° C LC = 0.1° C RH upto 99% LC=1% RH
96	Humidifier	ITIRC/MECH/65	SSI	NA
97	Dial gauge	ITIRC/MECH/66-1	ASAHI	0-25mm, LC=0.01mm
98	Dial gauge	ITIRC/MECH/66-2	ASAHI	0-5mm, LC=0.002mm
99	Dial gauge	ITIRC/MECH/66-3	Aerospace,16918	0-25mm, LC=0.01mm
100	Dial gauge	ITIRC/MECH/66-4	ASAHI	0-25mm, LC=0.01mm
101	Dial gauge	ITIRC/MECH/66-5	ASAHI	0-25mm, LC=0.01mm
102	Dial gauge	ITIRC/MECH/66-6	ASAHI	0-25mm, LC=0.01mm
103	Dial gauge	ITIRC/MECH/66-7	ASAHI	0-25mm, LC=0.01mm
104	Dial gauge	ITIRC/MECH/66-8	ASAHI	0-25mm, LC=0.01mm
105	Proving Ring	ITIRC/MECH/67-1	10KN 722, Precise,DG722,	10KN,
106	Proving Ring	ITIRC/MECH/67-2	50KN 04267, Precise, DG0426,	50KN,
107	Weighing Balance	ITIRC/MECH/68	Citizen/Aczet	0.1 to 3kg, LC=0.1gm
108	Hydrometer	ITIRC/MECH/71	Labware	1.000-2.000, LC: 0.01
109	Hydrometer	ITIRC/MECH/71-A	Om sons	0.0995-1.030, LC: 0.005
110	Filler Gauge	ITIRC/MECH/74	In size	0.03 to 1mm
111	Weighing Balance	ITIRC/MECH/75	SF 400C	Up to 600gm,LC:0.01gm
112	Weight box	ITIRC/MECH/76	Nagra	1mg to 200gm
113	Glass Thermometer	ITIRC/MECH/77-1	Alldays	-0 to 360°C,LC:2°C
114	Glass Thermometer	ITIRC/MECH/77-2	Optica	-10to 110°C,LC:1°C

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115	Glass Thermometer	ITIRC/MECH/77-3	Alldays	30 to 200°C, LC: 0.5°C
116	MS weight	ITIRC/MECH/78	--	5kg
117	MS weight	ITIRC/MECH/79	--	20kg
118	Wet & Dry Bulb Thermometer	ITIRC/MECH/82	Zeal	-10 to 50°C, LC: 1°C
119	Try Square Scale	ITIRC/MECH/83	Steelcase	0-560mm, 0-250mm, LC= 1mm
120	Try Square Scale	ITIRC/MECH/84	Shubham	0-170mm, LC= 1mm
121	Outside Spring Caliper	ITIRC/MECH/85	Insize	0-320mm
122	Standard weight	ITIRC/MECH/86	Maruti	1mg to 200gm
123	K-Type Thermometer/Master Sensor	ITIRC/MECH/87	Thermotech/ 11090919/2018	-50 to 300°C, LC: 1°C
124	K-Type-100 Type Thermometer/ Master Sensor	ITIRC/MECH/87A	Thermotech/ 17760919/2018	-50 to 200°C, LC: 0.1°C
125	Digital Tachometer	ITIRC/MECH/88	INSIZE/2019	50 to 99999 RPM, LC: 0.1 RPM
126	Tile Cutter	ITIRC/MECH/90	Divas plus	-----
127	Core Cutting Machine	ITIRC/MECH/91-1	XTRA-Power	0-300 mm
128	Core Cutting Machine	ITIRC/MECH/91-1	XTRA-Power	0-300 mm
129	Digital Earth Resistivity Tester	ITIRC/MECH/94	WACO/DET/380975	0 to 1000Ω LC=0.01Ω
130	Viscosity Test Apparatus	ITIRC/MECH/95	SSI	Ambient to 200°C, LC: 1°C
131	Cannon Mannon Viscosity Tube	ITIRC/MECH/95A	Tube No-12, S.No-88	360 to 8000 poises
132	Cannon Mannon Viscosity Tube	ITIRC/MECH/95B	Tube No-06, S.no-14	60 to 1000 CST
133	Direct Shear Test Apparatus	ITIRC/MECH/96 B	Bharat Emporium	-

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134	Proving Ring	ITIRC/MECH/96	1041/Ashai	2.5 KN
135	Direct Shear Test Apparatus (Dial Gauge)	ITIRC/MECH/96A	ASHAI/902641	0 to 25 mm,LC=0.01mm
136	Asphalt Mixer Theoretical Density (Gmm)Meter	ITIRC/MECH/97	AIM 582/2021/21079	Timer 0 to 999 Minutes, LC:0.1 minutes Cycle Timer 0 to 999 Minutes Pressure:0.00 to 720mm/Hg LC:1mm/Hg
137	Abrasion Testing Machine	ITIRC/MECH/99	SSI	291-297N load
138	Melt Flow Index Tester	ITIRC/MECH/100	SSI	Timer: upto 30 minutes,LC: 0.1 minutes Temperature : Upto 300°C, LC:0.1°C Weight : 5 kg 2.16 kg 1.5 kg 0.325 kg
139	Universal Testing Machine	ITIRC/MECH/101	SIM	1000KN, (LC-0.1KN)
140	Tensile Testing Machine	ITIRC/MECH/102	SIM	0-50KN, (LC-0.05N) 0-10000KN, (LC-1N)
141	Tensile Testing Machine	ITIRC/MECH/103	SIM	0-10000KN, (LC-1N) 0-50000KN, (LC-5N)
142	Measuring Tape (NDT)	ITIRC/NDT/35-1	Freemans	1-5 mtr. LC=1 mm
143	IR Thermometer	ITIRC/NDT/03	ST 530+	-32to 530°C,LC:0.1°C
144	IR Thermometer	ITIRC/NDT/03A	HT-816/2019	-50to 650°C,LC:0.1°C
145	Half-cell Potential Meter	ITIRC/NDT/07	TASS/MACO/ 9A06 18011644/2019	--

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1	Vicat accessories	ITIRC/MECH/01A to C	Aimil	
2	Poking Rod	ITIRC/MECH/04A	--	12X25X125-150mm
3	Blain Air Permeability	ITIRC/MECH/05	Aimil	--
4	Autoclave Bar Mould	ITIRC/MECH/11-1&4	Aimil	25X25X285mm
5	Cube Mould (Mortar)	ITIRC/MECH/14-1 to 9	Aimil	70.6 X 70.6 mm
6	Cube Mould (Mortar)	ITIRC/MECH/14A-1 to 18	SMEW	70.6 X 70.6 mm
7	Cube Mould (Mortar)	ITIRC/MECH/15-1 to 12	Aimil	50 X 50 mm
8	Cube Mould (Mortar)	ITIRC/MECH/15A-1 to 18	SMEW	50 X 50 mm
9	Le-Chatelier Mould	ITIRC/MECH/16-1to 6	Aimil	-
10	Le-Chatelier Mould	ITIRC/MECH/16A-1to 6	SMEW	-
11	Gauging Trowel	ITIRC/MECH/18-1&1A	Aimil	195-205 mm
12	Gauging Trowel	ITIRC/MECH/18-2&2A	Aimil	100-150 mm
13	Gauging Trowel	ITIRC/MECH/18-3&3A	SMEW	195-205 mm
14	Bulk density.	ITIRC/MECH/25-1	SMEW	3 ltr
15	Bulk density	ITIRC/MECH/25-2	SMEW	15 ltr
16	Bulk density	ITIRC/MECH/25-3	SMEW	30 ltr
17	Crushing Value Mould	ITIRC/MECH/26	SMEW	0-150 mm
18	Impact Value Testing Machine	ITIRC/MECH/27	SMEW	-
19	Efflorescence Apparatus	ITIRC/MECH/34/1 to 5	-	180X180X40mm
20	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-17	----	19mm
21	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-18	----	20mm
22	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-19	----	22.4mm

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23	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-20	----	25.0mm
24	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-21	----	26.5mm
25	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-22	----	31.5mm
26	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-23	----	37.5mm
27	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-24	----	40mm
28	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-25	----	45mm
29	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-26	----	50mm
30	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-27	SMEW	53mm
31	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-28	SMEW	63mm
32	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-29	SMEW	75mm
33	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-30	SMEW	80mm
34	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-31	SMEW	90mm
35	Test Sieve G.I (30 CM Dia)	ITIRC/MECH/38-32	SMEW	125mm
36	Softening Point App.	ITIRC/MECH/43	SMEW	Dia of ball – 9.5mm Wt. of ball - 3.5gm
37	Beam Mould	ITIRC/MECH/49-1to 9	SMEW	100X100X500mm
38	OMC mould for soil	ITIRC/MECH/54-1& 1A	SMEW	1000 C.C
39	OMC mould for soil	ITIRC/MECH/54-2,2A& 2B	SMEW	2250 c.c
40	Rammer for Soil	ITIRC/MECH/55-1	SMEW	2.6 kg
41	Rammer for Soil	ITIRC/MECH/55-2	SMEW	4.9 kg
42	Rammer for Soil	ITIRC/MECH/55-3	SMEW	4.9 kg
43	Casagrande-APP. For L.L.	ITIRC/MECH/56	SMEW	-
44	CBR Mould	ITIRC/MECH/59A to J	SMEW	2250cc
45	Flakiness Gauge	ITIRC/MECH/69	SMEW	63 to 6.3mm
46	Elongation Gauge	ITIRC/MECH/70	SMEW	63 to 6.3mm

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47	Cube Mould	ITIRC/MECH/72-1to 18	SMEW	150X150mm
48	Slump Cone Apparatus	ITIRC/MECH/73	SMEW	10X20X30cm
49	Dolly Core Cutter	ITIRC/MECH/80-1 to 3	SMEW	100mm
50	Sand Pouring Cylinder set	ITIRC/MECH/81	SMEW	150mm
51	Cone Penetrometer	ITIRC/MECH/89	Bharat Emporium	0-50mm, LC= 1mm
52	Mud Balance	ITIRC/MECH/92	Bharat Emporium	0.8 to 2.7g/cc, LC= 0.01g/cc
53	Saybolt Viscometer	ITIRC/MECH/93	Bharat Emporium	---
54	Vibrating Machine	ITIRC/MECH/04	SSI	12000+400 RPM
55	Length Comparator (Rod)	ITIRC/MECH/08.1	Amil	300 ± 1.5
56	Mastic Hardness Tester	ITIRC/MECH/95	BHE	0 to 25 mm, LC0.01 mm
57	Plastic Limit App.	ITIRC/MECH/96	SMEW	-
58	Shrinkage Limit App.	ITIRC/MECH/97	SMEW	-
59	Marsh Cone	ITIRC/MECH/98	SMEW	-
60	Rebound hammer	ITIRC/NDT/01	Labline	10 to 100No, LC :2No
61	Rebound hammer	ITIRC/NDT/01A	Unique	10 to 100No, LC :2No
62	Ultrasonic Sonic Pulse Velocity	ITIRC/NDT/02	Matest	0.1to 3000μS
63	Ferro scanning Apparatus/ Universal Detector	ITIRC/NDT/08	Bosch/D-tect 120/901100645/ 01-2019	Upto 120mm
64	Laser Distance Meter	ITIRC/NDT/09	PD-54N/ 003015/2019	0.05m to 40m,LC: 0.01m
65	Vibration Meter	ITIRC/NDT/10	Precise/VM333/N854676/2019	0.1 to 400mm/s, LC: 0.1mm/S
66	Reference Standard Bar	ITIRC/NDT/02A	Matest	42.5 μS
67	Grinder Machine	ITIRC/NDT/04	NA	NA
68	Hammer Drill Machine	ITIRC/NDT/05	NA	NA
69	Calibration Anvil	ITIRC/NDT/06	Intellitest	80±3 HRC

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