

LIST OF FACILITIES

Sl. No.	Material	Name of Tests	Quantity of samples required for test
1	Bituminous Mixes	Sieve Analysis	10 Kgs Each Layer
		Bitumen Content	
		Density by Core Extraction	
		Bitumen Job Mix Formula	20 Kgs of each size of sieve
2	Bricks - Burnt Clay	Water Absorption	05 Nos. for each test
		Compressive Strength	
		Dimensions	20 Nos.
		Efflorescence	05 Nos. for each test
3	Bricks - Flyash	Water Absorption	05 Nos. for each test
		Compressive Strength	
		Dimensions	20 Nos.
		Efflorescence	05 Nos. for each test
4	Cement	Physical Properties	50 Kgs
		Chemical Properties	
5	Coarse Aggregate	Sieve Analysis	25 Kgs
		Specific Gravity	
		Bulk Density	
		Flakiness & Elongation Index	
		Water Absorption	10 kgs
		Impact Value	
		Crushing Value	
		Aggregate Abrasion Value	25 Kgs.
		Soundness Loss	
		Petrographic test	
		Potential Alkali Silica Reactivity test (Mortar Bar Method ASTM C 1260)	
6	Fine Aggregate	Sieve Analysis	25 Kgs
		Specific Gravity	
		Bulk Density	
		Bulking & Moisture Content	
		Silt Content	
		Water Absorption	
		Materials Finer than 75	
		Organic Impurities	25 Kgs
		Soundness Loss	

		Petro graphic Test	
		Potential Alkali Silica Reactivity test (Mortar Bar Method as per ASTM C 1260)	
7	Concrete Cores	Extraction, Sampling, & Testing	Transportation charge extra
		Extraction	
8	Concrete Blocks	Water Absorption	Set of 03 Nos.
		Compressive Strength	Set of 08 Nos.
		Density	Set of 03 Nos.
9	AAC Blocks	Moisture Content	12 Nos.
		Compressive Strength	For Set of 03Nos.
		Density	For Set of 03Nos.
10	Concrete Cubes	Compressive Strength	For Set of 03Nos.
		Up to M-45 Grade	Cement - 1 Bag, FA - 25 kgs, CA- 25 kgs (each)
11	Concrete Mix Design	Above M-45 Grade	Cement - 1 Bag, FA - 30 kgs, CA - 25 kgs (each)
		Accelerated Curing Tank (ACT)	Cement - 1 Bag, FA - 25 kgs, CA- 25 kgs (each)
		Sieve Analysis	
12	Granular Sub Base (GSB)	Atterberg limits	60 Kgs
		Specific gravity	
		Water absorption	
		OMC & MDD	
		Job Mix Formula	
		Density by Sand Replacement	In Situ Test
		Sieve Analysis	
13	Wet Mix Macadam (WMM)	Atterberg limits	60 Kgs
		Specific gravity	
		Water absorption	
		OMC & MDD	
		Job Mix Formula	
		Density by Sand Replacement	In Situ Test
14	Paver Blocks	Water Absorption	05 Nos. for each test
		Compressive Strength	
15	Reinforcing Steel	Mass /Running meter	3 Nos. of 1.0 Meter each
		Tensile Test/Elongation/0.2%proof	
		Bend Test	
		Re-bend Test	
		Chemical Properties	
		Grain Size Analysis	
16	Soil	Liquid Limit & Plastic Limit	60 Kgs.
		Optimum Moisture Content & Maximum Dry Density -Light Compaction	
		Optimum Moisture Content & Maximum Dry Density - Heavy Compaction	
		California Bearing Ratio	
		Direct Shear Test	
		Swell Pressure	
		Free Swell Index	
		Organic Impurities	
		Specific Gravity	
		Void Ratio	
		Permeability	25 Kgs.
		Hydrometer Analysis	
		Tri-Axial Shear Test	
17	Structural Steel	Tensile Test	1.0 M-1 No.
		Bend Test	0.5 M-1 No.
		Chemical Properties	1.0 M-1 No.
18	Water	Suitability for Concrete	1.0 Litre
		Drinking Purpose	1.0 Litre
19	Soil - SPT		
	Soil ± Trial Pit Method	SBC	Un-Disturbed Sampling
20	Soil - Field Density	Density by Core cutter Method	Un-Disturbed Sampling
		Density by Sand Replacement Method	In Situ Test
21	Non Destructive Test (NDT)	Rebound Hammer	Minimum 10 Points Required
		Ultra Pulse Velocity Test	