

## **SCHEDULE FOR TESTING OF MATERIALS**

**For ensuring quality control and workmanship, various tests prescribed below for materials shall Be taken at periodical intervals as stipulated below.**

<b>Sr. No.</b>	<b>Brief Description of Materials to be tested (2)</b>	<b>Qty. of Materials (3)</b>	<b>Prescription of test which shall be carried</b>	<b>Frequency @ which test shall be carried out</b>	<b>Total No. of Test 'to be taken.</b>
<b>1</b>	25 to 90 H. B.Metal 40 to 63 H. B.Metal 40 to 50 M. C.Metal 20 to 50 M. C.Metal Kapachi		- Gradation Test - Impact Value - Flakiness Index - Water absorption test - Sp. gravity	1 to 100 Cmt. - 1 Test 100 to 500 Cmt. - 3 Test 500 to 1500 Cmt. - 5 Test 1500 to 5000 Cmt. - 7 Test	
<b>2</b>	Grit		- Stripping Value, gradation, Water absorption, Sp. gravity	One test per work	
<b>3</b>	Murum		- P. I. Value - C.B.R.	One test per work	
<b>4</b>	Quarry spall		- C.B.R. - Gradation	One test per work	
<b>5</b>	Asphalt		- Penetration Test as per Specification	<b>Tanker      Test</b> 1                      1 2to15                2 16to50              3	
<b>6</b>	Tack Coat		- Binder temperature for application - Rate of spread of binder	Irregular close in intervals Two test per day.	
<b>7</b>	Carpet & Seal coat mix		- Grading - temperature of binder in boiler, aggregates in the dryer and mix at the time of laying and rolling (Binder content vide 45 IMD 2172) Rate of Spreaded mix materials.	One test on individual constituents and mixed aggregates from the dryer for each 100 tons of mix subject to minimum of Two tests per plant per day. One Test for each 100tons of mix subjects to mini. of Two per dayplant. Regular control through checks on layer thickness.	
<b>8</b>	Bricks		- Water absorption - Effloresce - Size - Compressive Strength	1 Test @ 50,000 Bricks	
<b>9</b>	Cement		Consistency - Compressive Strength - Initial & Final setting time - Fineness - Soundness - Specific Gravity - Chemical analysis	1 Test / 50 M.T. 2 Tests / 100 M.T. 3 Tests / 200 M.T. 4 Tests / 400 M.T. 5 Tests / 500 M.T. 6 Tests / 600 M.T.	
<b>10</b>	Steel (TMT / M.S.)		- Tensile strength - Yield Stress - Elongation - Size - Bend - Rebend	1 Test / 40 M.T. 1 Test/ 40 M.T. 1 Test / 40 M.T. 1 Test / 40 M.T. 1 Test / 20 M.T. 1 Test / 20 M.T.	

<b>11</b>	C.C. Cube in M-150 M-200, M-250, M-300, M-350 Grade		- Compressive Strength	1 to 5 C.mt. -1 Set 6 to 15 C.mt. 2 Sets 16 to 20 C.mt. - 3 Sets 20 to 50 C.mt. - 4 Sets 51 above - 4 One additional sample for each 100 C.mt. / or.	
<b>12</b>	Coarse Sand		C.B.R., silt content, sieve analysis	One Test per work	
<b>13</b>	Sand (For concrete work)		- Specific Gravity - Alkali Reactivity - Petrography Exa. - Gradation - Silt Content - Water absorption test	2 Tests per season or change of river	
<b>14</b>	Crushed stone Aggregate (For concrete work)		- Gradation - Water absorption - Impact Value - Abrasion Value - Soundness Test	1 Sample / 150 Cum. or 2 Sample / Season each source.	
<b>15</b>	Water for all item pertaining to water		- Portability - Salinity - Chemical analysis	One sample for each source of supply	
<b>16</b>	Earthwork for Embankment		- Sand content - Atterberg's limit - Density test - Moisture content - C.B.R.	2 Test / 8000 Cum 2 Test / 8000 Cum 2 Test / 8000 Cum 1 Test / 250 Cum. 1 Test / work	
<b>17</b>	Cement concrete		- Mix design	One time test for each concrete grade beyond M-200	