

## NABL ACCREDITED LAB AS PER ISO / IEC 17025:2005

**CSRL - STRUCTWEL LAB (Pune) Pvt. Ltd.**

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Rate List (2009-2010)

<u>We conduct following Tests :-</u>	Quantity of Materials Required / Specified No. of Specimen per sample / Test	Reference For Test method
<b>1. CEMENT</b> <b>1.1 Physical Tests</b> (i) Initial/Final setting time (ii) Compressive Strength (3,7, & 28 Days ) (iii) Specific Gravity (iv) Soundness a) Le- Chatelier's Method <b>b) Autoclave Method</b> (v) Fineness : a) By Dry Sieving b) By Blaines Air Permeability Method / Specific Surface (vi) Consistency <b>1.2 Heat of hydration</b> <b>1.3 Chemical Analysis</b> (i) Loss on Ignition - (L.O.I.) (ii) Insoluble residue (I.R.) (iii) SO <sub>3</sub> (iv) Silica (SiO <sub>2</sub> ) (v) Alumina (Al <sub>2</sub> O <sub>3</sub> ) (vi) Iron (Fe <sub>2</sub> O <sub>3</sub> ) (vii) Lime (CaO) (viii) Magnesia (MgO) (ix) Chloride(Cl <sup>-</sup> ) (x) Total Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O)	<b>Min. 20 Kg</b> Min. 10 Kg Min 4 Kg Min 500 gm Min 500 gm Min 500 gm Min 200 gm Min 2.5 Kg <b>Min 1 Kg</b> Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm	IS 4031 (Part - V) IS 4031 (Part - VI) IS 4031 (Part - XI) IS 4031 (Part - III) IS 4031 (Part - I) IS 4031 (Part - II) IS 4031 (Part - IV) IS 4032:1985 IS 4032:1985 IS 4032:1985 IS 4032:1985 IS 4032:1985 IS 4032:1985 IS 4032:1985 IS 4032:1985 IS 4032:1985 IS 4032:1985 By Vogel (Ref) IS 4032:1985
<b>1. CEMENT</b> <b>1.3 Chemical Analysis</b> (xi) Tri Calcium Aluminate (C <sub>3</sub> A) / (xii) Tetra Calcium Aluminate ferrite(C <sub>4</sub> AF) (xiii) Tri Calcium Silicate (C <sub>3</sub> S) (xiv) Di Calcium Silicate (C <sub>2</sub> S)	Min. 100 gm Min. 100 gm Min. 100 gm Min. 100 gm	IS 4032 IS 4032 IS 4032 IS 4032
<b>2. AGGREGATES</b> <b>2.1 Fine Aggregates (Sand) - Physical Tests</b> (i) Sieve Analysis/Fineness Modulus (ii) % silt by Weight (iii) % silt by Volume (iv) Bulking (v) Water Absorption (vi) Specific Gravity (vii) Bulk Density	<b>Min 20 Kg</b> Min 5 Kg Min 2 Kg Min 500 gm Min 500 gm Min 2 Kg Min 2 Kg Min 7 kg	IS 2386 - (Part - I) IS 2386 - (Part - I) CPWD Speci.Vol. I IS 2386 - (Part - III) IS 2386 - (Part - III) IS 2386 - (Part - III) IS 2386 - (Part - III)
<b>2.2 (a) Coarse Aggregates - Physical Tests</b> (i) Sieve Analysis/Fineness Modulus	<b>Min 100 Kg</b> Min 25 Kg	IS 2386 - (Part - I)

<b><u>We conduct following Tests :-</u></b>	<b>Quantity of Materials Required / Specified No. of Specimen per sample / Test</b>	<b>Reference For Test method</b>
(ii) Water Absorption (iii) Specific Gravity (iv) DLBD (Dry Loose Bulk Density) (v) Flakiness (vi) Elongation	Min 5 Kg Min 5 Kg Min 30 Kg Min 25 Kg Min 25 Kg	IS 2386 - (Part - III) IS 2386 - (Part - III) IS 2386 - (Part - III) IS 2386 - (Part - I) IS 2386 - (Part - I)
<b>2.2 (b) Coarse Aggregates - Mechanical Tests</b> (i) Impact Value (ii) Crushing Value (iii) 10 % Fine Value (iv) Los Angeles Abrasion Value	<b>Min 60 Kg</b> Min 5 Kg Min 20 Kg Min 20 Kg Min 20 Kg	IS 2386 - (Part - IV) IS 2386 - (Part - IV) IS 2386 - (Part - IV) IS 2386 - (Part - IV)
<b>2.3 Fine/Coarse Aggregates - Chemical Tests</b> (i) Soundness after One cycles (ii) Soundness after five cycles (iii) <b>Alkali Aggregate Reactivity</b> (iv) Organic Impurities (v) Deleterious Material (vi) pH (vii) Chloride (viii) Sulphate	<b>Min 15 Kg</b> Min 10 Kg Min 10 Kg Min 1 Kg Min 1 Kg Min 1 Kg Min 1 Kg Min 1 Kg	IS 2386 - (Part - V) IS 2386 - (Part - V) IS 2386 - (Part - VII) IS 2386 - (Part - II) IS 2386 - (Part - II) IS 3025 - ( Part- 11) IS 3025 - ( Part - 32) IS 3025 - ( Part - 24)
<b>3. CONCRETE</b> <b>3.1 Physical Tests (Concrete Masonry Units)</b> (i) Compressive Strength (ii) Water Absorption (iii) Density <b>3.2 Chemical Analysis</b> (i) pH (ii) Chloride (iii) Sulphate	<b>14 Nos</b> 8 Nos 3 Nos 3 Nos <b>Min 3 Kg</b> Min 1 Kg Min 1 Kg Min 1 Kg	IS 2185 ( Part - I) IS 2185 ( Part - I) IS 2185 ( Part - I)
<b>3.4 Mix Design of Concrete</b> (a) Cement (b) Sand (c) Metal - I (d) Metal - II (e) Admixture (If required)	1 Bag Min 100 Kg Min 75 Kg Min 75 Kg Min 2 Lits	IS 10262 ,IS 456 , SP 23
<b>3.5 Abrasion resistance of concrete</b>	3 Nos (Size - 100 x100x 100mm)	IS 9284

<u>We conduct following Tests :-</u>	<b>Quantity of Materials Required / Specified No. of Specimen per sample / Test</b>	<b>Reference For Test method</b>
<b>3.6 Permeability of Concrete as per IS/DIN Standard</b> <b>3.7 F-CAM Test for Cement content in fresh concrete</b> <b>3.8 Non-destructive Testing (NDT)</b> <ul style="list-style-type: none"> <li>(i) Schmidt Rebound Hammer</li> <li>(ii) Ultrasonic Pulse Velocity</li> <li>(iii) Cover Meter</li> <li>(iv) Concrete Cores (from 25 mm. to 150 mm. dia)</li> <li>(v) Half cell potentiometer</li> <li>(vi) Bond test of epoxy or other bonding materials.</li> <li>(vii) Endoscopic Inspection</li> <li>(viii) Slab Load Test</li> <li>(ix) Strain Gauge</li> <li>(x) Vibration Meter</li> </ul>	Min 3 Nos of Cubes (Size - 150 x150x 150mm)  As Actual As Actual As Actual  As Actual As Actual  As Actual As Actual As Actual As Actual As Actual	IS 13311 (Part - 2) IS 13311 (Part - 1) ----  ---- ----  ---- ---- ---- ---- ----
<b>4. BRICKS</b> <ul style="list-style-type: none"> <li>(i) Water Absorption</li> <li>(ii) Compressive strength</li> <li>(iii) Density</li> <li>(iv) Efflorescence</li> <li>(v) Dimension &amp; Tolerance</li> </ul>	<b>Min 40 Nos</b> Min 5 Nos Min 5 Nos  Min 5 Nos Min 5 Nos  Min 20 Nos	IS 3495 (Part-II) IS 3495 (Part-I)  IS 3495 (Part-III) IS 1077
<b>5. PAVING BLOCK</b> <ul style="list-style-type: none"> <li>(i) Water Absorption</li> <li>(ii) Abrasion Resistance / Value</li> <li>(iii) Flexural Strength</li> <li>(iv) Compressive Strength</li> <li>(v) Area</li> </ul>	<b>Min 35 Nos</b> 3 Nos 8 Nos 8 Nos 8 Nos 8 Nos	IS 15658:2006 IS 15658:2006 IS 15658:2006 IS 15658:2006 IS 15658:2006
<b>6. TILES</b> <b>CONC.FLOORING TILES (IS 1237)/ MOSAIC</b> <b>6.1 TILES ( IS 1237) / CHEQUERED (Cone) TILES</b> <ul style="list-style-type: none"> <li>(i) Abrasion / Resistance to wear</li> <li>(ii) Water Absorption</li> <li>(iii) Wet Transverse Strength</li> </ul> <b>6.2 CERAMIC TILES</b> <ul style="list-style-type: none"> <li>(i) Scratch Hardness</li> <li>(ii) Water Absorption</li> <li>(iii) Modulus of Rupture</li> <li>(iv) Dimension / Surface Quality</li> <li>(v) Crazeing Resistance</li> </ul> <b>6.3 Chemical Resistance Test on Ceramic Glazed</b>	<b>Min 18 Nos</b>  6 Nos 6 Nos  6 Nos  <b>Min 30 Nos</b> 3 Nos 5 Nos 7 Nos 10 Nos 5 Nos  <b>Min 25 Nos</b>	IS 1237 / IS 13801 IS 1237 / IS 13801  IS 1237 / IS 13801  IS 13630 (Part - 13) IS 13630 (Part - 2) IS 13630 (Part-6) IS 13630 (Part-1) IS 13630 (Part -9)

<b><u>We conduct following Tests :-</u></b>	<b>Quantity of Materials Required / Specified No. of Specimen per sample / Test</b>	<b>Reference For Test method</b>
(i) Stain Test (ii) Household Chemicals (iii) Swimming Pool Salts (iv) Acid Resistance (v) Alkali Resistance	5 Nos 5 Nos 5 Nos 5 Nos 5 Nos	IS 13630 (Part - 8) IS 13630 (Part - 8) IS 13630 (Part - 8) IS 13630 (Part - 8) IS 13630 (Part - 8)
<b>7. WOOD</b>  (i) Moisture Content  (ii) Sp. Gravity <b>7.1 Timber</b>  (i) Nail & Screw Holding Power Test (ii) Specific Gravity (iii) Moisture content	1 No (Size 5 X 5 X 2.5 cm)  1 No (Size 5 X 5 X 15 cm)  1 No (Size 5 X 5 X 15 cm) 1 No (Size 5 X 5 X 15 cm) 1 No (Size 5 X 5 X 2.5 cm)	IS 1708 (Part - 1)  IS 1708 (Part - 2)  IS 1708 ( Part - 15) IS 1708 ( Part - 2)  IS 1708 ( Part - 1)
<b>8. DOOR SHUTTER (Flush, PVC, FRP, Steel, Aluminium, Wooden)</b> <b>8.1 Physical Tests</b> (i) Dimension & Defects of squareness (ii) Measurement & defects of General flatness (iii) Local planeness test (iv) Impact Indentation test (v) Edge loading test (vi) Shock resistance test (vii) Buckling test (viii) Misuse test (ix) Slamming test  (x) Screw holding power test (xi) Knife test (xii) Glue Adhesion test (xiii) End Immersion test	<b>Min 1 No of Door Shutter</b>  1 No	IS 4020 - (Part-2) IS 4020 - (Part-3) IS 4020 - (Part-4) IS 4020 - (Part-5) IS 4020 - (Part-7) IS 4020 - (Part-8) IS 4020 - (Part-9) IS 4020 - (Part-11) IS 4020 - (Part-10)  IS 4020 - (Part-16) IS 4020 - (Part-14) IS 4020 - (Part-15) IS 4020 - (Part-13)
<b>9. PLY WOOD</b>  (i) Density & moisture content  (ii) Water resistance  (iii) Test for Adhesion of Plies  (iv) Resistance to dry heat  (v) Nail & Screw Holding power	3 Nos (Size - 150 X 75 mm)  4 Nos (Size - 250 X 250 cm)  3 Nos (Size - 250 X 250 cm)  3 Nos (Size - 225 X 100 mm)  3 Nos (Size - 250 X 50 mm)	IS 1734 - (Part - 1)  IS 1734 - (Part - 6)  IS 1734 - (Part - 5)  IS 1734 - (Part - 2)  IS 1734 - (Part - 19)

<b><u>We conduct following Tests :-</u></b>	<b>Quantity of Materials Required / Specified No. of Specimen per sample / Test</b>	<b>Reference For Test method</b>
(vi) Moisture content (vii) pH value	3 Nos (Size - 150 X 75 mm) Any Size	IS 1734 - (Part - 1) IS 1734 - (Part - 8)
<b>Wood Particle Board</b> (i) Moisture content & Density (ii) Screw & Nail Withdrawal Test (iii) Water Absorption	3 Nos (Size - 150 X 75 mm) 3 Nos (Size - 300 X 50 mm) 3 Nos (Size - 300 X 300 mm)	IS 2380 (Part - 3) IS 2380 (Part - 14) IS 2380 (Part - 16)
<b>10. STEEL</b>  <b>10.1 Physical Tests (For Bar up 12 mm Dia.)</b> (i) Tensile Strength & % Elongation (ii) Bend (iii) Rebend  (iv) Weight per Mt.	<b>Min 1 No of 1 m length</b> Min 600 mm Min 200 mm Min 200mm  Min 1000 mm	IS 1608 : 2005 IS 1599 :1985 IS 1786 : 2008  IS 1786 : 2008
<b>10.2 Physical Tests (For Bar 16 mm to 25 mm Dia.)</b> (i) Tensile Strength & % Elongation (ii) Bend (iii) Rebend (iv) Weight per Mt.	<b>Min 1 No of 1.50 m length</b> Min 900 mm Min 300 mm Min 300mm Min 1000 mm	IS 1608 : 2005 IS 1599 :1985 IS 1786 : 2008 IS 1786 : 2008
<b>10.3 Physical Tests (For Bar above 25 mm Dia.)</b> (i) Tensile Strength & % Elongation (ii) Bend (iii) Rebend (iv) Weight per Mt.	<b>Min 1 No of 1.50 m length</b> Min 900 mm  Min 300 mm Min 300mm Min 1000 mm	IS 1608 : 2005  IS 1599 :1985 IS 1786 : 2008 IS 1786 : 2008
<b>10.4 (i) Pullout Test</b>  dia<12 mm  12mm<25mm dia>25 mm	Min . 3 Bars of 1.5 m length -----"----- -----"-----	IS 2770 (Part 1) : 1967 IS 2770 (Part 1) : 1967 IS 2770 (Part 1) : 1967
<b>10.5 Chemical Analysis</b> (i) Carbon (ii) Sulphur (iii) Phosphorus	Min 1 No of 300 mm Min 1 No of 300 mm Min 1 No of 300 mm Min 1 No of 300 mm	IS 228 (Part 1) : 1987 IS 228 (Part 9) : 1989 IS 228 (Part 3) : 1987
<b>10.6 Structural Steel</b> (i) Carbon (ii) Sulphur	Min 1 No of 300 mm Min 1 No of 300 mm Min 1 No of 300 mm	IS 228 (Part 1) : 1987 IS 228 (Part 9) : 1989

<u>We conduct following Tests :-</u>	<b>Quantity of Materials Required / Specified No. of Specimen per sample / Test</b>	<b>Reference For Test method</b>
(iii) Phosphorus	Min 1 No of 300 mm	IS 228 (Part 3) : 1987
<b>11. SOIL</b> <b>11.1 Physical Tests</b> (i) Bulk Density (ii) Moisture Content (iii) Specific Gravity (iv) Sieve Analysis  (v) Hydrometer Analysis (vi) Liquid Limit / Plastic Limit  (vii) Shrinkage Limit  (viii) Standard Proctor (ix) Modified Proctor & AASHTO (x) California Bearing Ratio (Unsoaked) (xi) California Bearing Ratio (Soaked)  (xii) Direct Shear (Undrained)  (xiii) Direct Shear (Drained)  (xiv) Free Swell Index Uniformity Co efficient including sieve (xv) analysis Co efficient of Curvature including sieve (xvi) analysis (xvii) Permeability Test Constant Head Method (xviii) Permeability Test Variable Head Method	Min 1 Kg Min 500 gms Min 7 Kg Min 200 gm (Finer than 75 $\mu$ ) Min 500 gm (Finer than 425 $\mu$ )  Min 200 gm (Finer than 425 $\mu$ )  Min 30 Kg Min 35 Kg Min 35 Kg Min 35 Kg Min 1 Kg ( Finer than 4.75 mm) Min 1 Kg ( Finer than 4.75 mm) Min 1 Kg (Min 20 gm Finer than 425 $\mu$ )  Min 7 Kg  Min 7 Kg	IS 2720 (Part - 2) : 1973 IS 2720 (Part - 3) : 1980 IS 2720 (Part - 4) : 1985  IS 2720 (Part - 4) : 1985 IS 2720 (Part - 5) : 1985  IS 2720 (Part - 6) : 1972  IS 2720 (Part - 7) : 1980 IS 2720 (Part - 8) : 1983 IS 2720 (Part - 16) : 1987 IS 2720 (Part - 16) : 1987  IS 2720 (Part - 13) : 1986  IS 2720 (Part - 13) : 1986  IS 2720 (Part - 40) : 1977  IS 1498 : 1970  IS 1498 : 1970 IS 2720 (Part - 36) : 1987
<b>11. SOIL</b> <b>11.2 Chemical Analysis</b> (i) pH (ii) Chloride (iii) Sulphate (iv) Calcium Carbonate (v) Total Soluble Solids (vi) Organic Matter  <b>11.3 FIELD TESTS</b> (i) Field Density by Core Cutter (In PMC Limit) For First Point including Site visit	<b>Min 1 Kg</b> Min 500 gm Min 500 gm Min 500 gm Min 500 gm Min 500 gm Min 500 gm  As Actual on site (Min 1 Point)	IS 2720 (Part - 26) : 1987 Ref by Vogel Book IS 2720 (Part - 27) : 1977 IS 2720 (Part - 23) : 1976 IS 2720 (Part - 21) : 1977 IS 2720 (Part - 22) : 1972  IS 2720 (Part - 29) : 1975

<u>We conduct following Tests :-</u>	<b>Quantity of Materials Required / Specified No. of Specimen per sample / Test</b>	<b>Reference For Test method</b>
(ii) Field Density by Core Cutter (In PMC Limit) For Extra Point. Field Density by Sand Replacement Method (iii) (In PMC Limit) For First Point. Field Density by Sand Replacement Method (iv) (In PMC Limit) For Extra Point. (v) Standard Penetration Test in Pit (vi) Plate Load Test excluding excavation, transport & report (vii) Exploratory Boring with undisturbed samples, Standard Penetration Tests, Water samples & Geotechnical report (viii) Field CBR	As Actual on site As Actual on site (Min 1 Point ) As Actual on site As Actual on site As Actual on site As Actual on site As Actual on site	IS 2720 (Part - 29) : 1975 IS 2720 (Part - 28) : 1974 IS 2720 (Part - 28) : 1974 IS 2131 : 1981 IS 2720 (Part - 31) : 1990
<b>12. ROCK</b> <b>12.1 Physical Tests</b> (i) Density (ii) Specific Gravity (iii) Water Absorption (iv) Unconfined Crushing Strength (v) Porosity (vi) Rock Cutting Charges <b>12.2 Chemical Tests</b> (i) Sulphate (ii) Chloride (iii) pH Value <b>13. HYDRATED LIME (NEERU/ QUICK LIME) Chemical Tests</b> (i) Insoluble residue (ii) Silica (iii) Alumina (iv) Fe <sub>2</sub> O <sub>3</sub> (v) Lime (CaO) (vi) Magnesia (MgO) (vii) Loss on Ignition (LOI)	5 Nos of Cubical Specimen of size 50 X 50 X 50 mm or Cylindrical Specimen of Dia. 50 mm and depth up to 150 mm length _____ do _____ _____ do _____ _____ do _____ _____ do _____ Applicable if received sample is not as per above mentioned size. Sample of any size & Shape _____ do _____ _____ do _____ <b>Min 1 Kg</b> Min 250 gm Min 250 gm Min 250 gm Min 250 gm Min 250 gm Min 250 gm Min 250 gm	IS 1124 :1974 IS 1124 :1974 IS 1124 :1974 IS 9143 : 1979 IS 1124 :1974 NA IS 3025 (Part - 24):1986 IS 3025 (Part - 32):1988 IS 3025 (Part - 11):1983 IS 6932 (Part- 1) : 1973 IS 6932 (Part- 1) : 1973 IS 6932 (Part- 1) : 1973 IS 6932 (Part- 1) : 1973 IS 6932 (Part- 1) : 1973 IS 6932 (Part- 1) : 1973 IS 6932 (Part- 1) : 1973
<b>14. CONSTRUCTION CHEMICALS</b>		

<u>We conduct following Tests :-</u>	<b>Quantity of Materials Required / Specified No. of Specimen per sample / Test</b>	<b>Reference For Test method</b>
<p>(i) pH (ii) Chlorides</p> <p><b>15 ADMIXTURE- Chemical Analysis</b></p> <p><b>15.1</b> (i) pH (ii) Chlorides (iv) % Total solids Content (v) Specific Gravity (vi) Ash Content</p>	<p>Min 1 Lit. Min 1 Lit. <b>Min 1 Ltr</b> Min 1 Ltr Min 1 Ltr Min 1 Ltr Min 1 Ltr</p>	<p>IS 9103 : 1999 IS 6925:1973  IS 9103 : 1999 IS 6925:1973 IS 9103 : 1999 IS 9103 : 1999 IS 9103 : 1999</p>
<p><b>16 WATER</b></p> <p><b>16.1</b> (i) Chlorides (ii) Sulphates (iii) pH (iv) Alkalinity (v) Total Hardness (vi) Suspended solids (vii) Organic Impurities (viii) Inorganic Impurities</p>	<p><b>Min 5 Ltrs</b> Min 1 Ltr. Min 1 Ltr. Min 1 Ltr. Min 1 Ltr. Min 1 Ltr. Min 1 Ltr. Min 1 Ltr. Min 1 Ltr.</p>	<p>IS 3025 (Part -32):1988 IS 3025 (Part -24):1986 IS 3025 (Part -11):1983 IS 3025 (Part -23):1986 IS 3025 (Part -21):1983 IS 3025 (Part -15):1984 IS 3025 (Part -18):1984 IS 3025 (Part -18):1984</p>
<p><b>17 FLY ASH</b></p> <p><b>17.1 Physical Tests</b></p> <p>(i) Fineness by wet sieving (ii) Soundness (iii) Setting time (iv) Lime reactivity (v) Compressive Strength (vi) Sp. Gravity (vii) Sp. Surface</p>	<p><b>Min 7 Kg</b> Min 500 gm Min 500 gm Min 2 Kg Min 1 Kg Min 2 Kg Min 500 gm Min 200 gm</p>	<p>IS 1727 :1967 IS 1727 :1967 IS 1727 :1967 IS 1727 :1967 IS 1727 :1967 IS 1727 :1967 IS 1727 :1967</p>
<p><b>17 FLY ASH</b></p> <p><b>17.2 Chemical Analysis</b></p> <p>(i) Silicon dioxide SiO<sub>2</sub> (ii) Aluminium Oxide Al<sub>2</sub>O<sub>3</sub> (iii) Iron Oxide Fe<sub>2</sub>O<sub>3</sub> (iv) Calcium Oxide CaO (v) Magnesium Oxide MgO (vi) Total Sulphur as Sulphur-trioxide SO<sub>3</sub></p> <p><b>18 Stone / Marble Tiles/Marble Slabs</b></p> <p>(i) Water Absorption (ii) Hardness on Moh's Scale (iii) Specific gravity</p>	<p><b>Min 1 Kg</b> Min 500 gms Min 500 gms Min 500 gms Min 500 gms Min 500 gms Min 500 gms</p> <p>300 X 300 mm - 3 Nos 300 X 300 mm - 3 Nos 300 X 300 mm - 3 Nos</p>	<p>IS 1727 :1967 IS 1727 :1967 IS 1727 :1967 IS 1727 :1967 IS 1727 :1967 IS 1727 :1967 IS 1727 :1967</p> <p>IS 1130:1969 IS 13630 (Part - 13) IS 1122 :1974</p>
<p><b>19 BITUMEN / TAR</b></p> <p><b>Physical Test</b></p> <p>(i) Softening Point (ii) Penetration Test (iii) Flash &amp; Fire Point (iv) Specific Gravity</p>	<p>Min 500 gms Min 500 gms Min 500 gms Min 500 gms</p>	<p>IS 1205 : 1978 IS 1203 : 1978 IS 1209 : 1978 IS 1202 : 1978</p>

<b><u>We conduct following Tests :-</u></b>	<b>Quantity of Materials Required / Specified No. of Specimen per sample / Test</b>	<b>Reference For Test method</b>
(v) Ductility (vi) Viscosity (vii) Marshal Stability Test (viii) Marshal Stability Test (Involving preparation (ix) Test on materials for Mix Design of BM,AC (x) Bituminous Concrete/Macadam Mix Design/ Job Mix Formula (including materials (xi) Bitumen Binder Content (xii) Gradation of Aggregate mix (xiii) Stripping Value (xiv) Bitumen Core Extraction	Min 500 gms Min 500 gms Marshall Moulded specimen 3 Nos Min 5 kg Bit. Mix  Min 2 Kg Bit. Mix Min 2 Kg Bit. Mix 5 kg (Agg)+ 1 Kg(Bit) As Actual on site	IS 1208 : 1978 IS 1206 (Part-1) : 1978 MS II,ASTM D 1559-62T MS II,ASTM D 1559-62T MORTH 2001 , MS II MORTH 2001, MS II ASTM D 2172 (Part II) MORTH 2001 IS 6241 : 1971 NA

Celebrate (2010-2011)