

TEST SCHEDULE

Sr. No.	Materials	Code of Practice	Onsite / Laboratory	Name of Laboratory Test	Reference Table	Frequency of Test																																																																																																																
1	2	3	4	5	6	7																																																																																																																
1	Retro Reflective Sheetting for the Signage	IRC 67: 2012; ASTM D-4956	On Site Testing with Reflectometer make: Delta, Zehntner, Roadvista – complying to ASTM D 4956	Co-efficient of Retro Reflection	<p>Class-B type-4 High Intensity Grade</p> <table border="1"> <thead> <tr> <th>Observation Angle</th><th>Entrance Angle</th><th>White</th><th>Yellow</th><th>Green</th><th>Red</th><th>Blue</th></tr> </thead> <tbody> <tr> <td>0.1°^B</td><td>-4°</td><td>500</td><td>380</td><td>70</td><td>90</td><td>42</td></tr> <tr> <td>0.1°^B</td><td>+30°</td><td>240</td><td>175</td><td>32</td><td>42</td><td>20</td></tr> <tr> <td>0.2°</td><td>-4°</td><td>360</td><td>270</td><td>50</td><td>65</td><td>30</td></tr> <tr> <td>0.2°</td><td>+30°</td><td>170</td><td>135</td><td>25</td><td>30</td><td>14</td></tr> <tr> <td>0.5°</td><td>-4°</td><td>150</td><td>110</td><td>21</td><td>27</td><td>13</td></tr> <tr> <td>0.5°</td><td>+30°</td><td>72</td><td>54</td><td>10</td><td>13</td><td>6</td></tr> </tbody> </table> <p>Class-C Type-11 Micro Prismatic Grade</p> <table border="1"> <thead> <tr> <th>Observation Angle</th><th>Entrance Angle</th><th>White</th><th>Yellow</th><th>Green</th><th>Red</th><th>Blue</th></tr> </thead> <tbody> <tr> <td>0.1°^B</td><td>-4°</td><td>830</td><td>620</td><td>83</td><td>125</td><td>37</td></tr> <tr> <td>0.1°^B</td><td>+30°</td><td>325</td><td>245</td><td>33</td><td>50</td><td>15</td></tr> <tr> <td>0.2°</td><td>-4°</td><td>580</td><td>435</td><td>58</td><td>87</td><td>26</td></tr> <tr> <td>0.2°</td><td>+30°</td><td>220</td><td>165</td><td>22</td><td>33</td><td>10</td></tr> <tr> <td>0.5°</td><td>-4°</td><td>420</td><td>315</td><td>42</td><td>63</td><td>19</td></tr> <tr> <td>0.5°</td><td>+30°</td><td>150</td><td>110</td><td>15</td><td>23</td><td>7</td></tr> <tr> <td>1.0°</td><td>-4°</td><td>120</td><td>90</td><td>12</td><td>18</td><td>5</td></tr> <tr> <td>1.0°</td><td>+30°</td><td>45</td><td>34</td><td>5</td><td>7</td><td>2</td></tr> </tbody> </table>	Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	0.1° ^B	-4°	500	380	70	90	42	0.1° ^B	+30°	240	175	32	42	20	0.2°	-4°	360	270	50	65	30	0.2°	+30°	170	135	25	30	14	0.5°	-4°	150	110	21	27	13	0.5°	+30°	72	54	10	13	6	Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	0.1° ^B	-4°	830	620	83	125	37	0.1° ^B	+30°	325	245	33	50	15	0.2°	-4°	580	435	58	87	26	0.2°	+30°	220	165	22	33	10	0.5°	-4°	420	315	42	63	19	0.5°	+30°	150	110	15	23	7	1.0°	-4°	120	90	12	18	5	1.0°	+30°	45	34	5	7	2	5 Tests (1 Sample of Each Color) for every 1 km.
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2	Road Studs / Cat eyes / RPM (Raised Pavement Marker)	IRC 35:2015; ASTM D4280	Laboratory Testing	Compressive Strength	Compressive Strength (Breaking load) – 13635kgf without breakage	1 Sample for each color																																																																																																																
		IRC 35: 2015; ASTM D4280	Laboratory Testing	Flexural Strength	909kgf without breakage or significant deformation (3.3mm)	1 Sample for each color																																																																																																																
		IRC 35:201	Laboratory Testing	Resistance to Lens	No More than 2 radial cracks longer than 6.4mm	1 Sample for each Color																																																																																																																

		5; ASTM D4280		Cracking, Lens Impact Strength																						
		IRC 35: 2015; ASTM D4280	Laboratory Testing	Co-efficient of Luminous Intensity – ASTM D4280	Co-efficient of Luminous Intensity (C.I.L) <table><tr><td>Observation Angle</td><td>Entrance Angle</td><td>White</td><td>Yellow</td><td>Red</td></tr><tr><td>0.2</td><td>0</td><td>279</td><td>167</td><td>70</td></tr><tr><td>0.2</td><td>+20</td><td>112</td><td>67</td><td>28</td></tr><tr><td>0.2</td><td>-20</td><td>112</td><td>67</td><td>28</td></tr></table>	Observation Angle	Entrance Angle	White	Yellow	Red	0.2	0	279	167	70	0.2	+20	112	67	28	0.2	-20	112	67	28	1 Sample for each Color
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3	Hot Applied Thermoplast Road Marking	IRC 35: 2015; Section 800 of MORTH	On Site Testing with Reflectometer	(QD & RL) Retro Reflectivity (mcd/m2/lux	Retro Reflectivity (mcd/m2/lux <table><tr><td>Design Speed</td><td>Initial days</td><td>(7</td><td>Min Threshold Level (TL) Upto 2 years</td></tr><tr><td>Upto 65 kmph</td><td>200</td><td></td><td>80</td></tr><tr><td>65-100</td><td>250</td><td></td><td>120</td></tr></table>	Design Speed	Initial days	(7	Min Threshold Level (TL) Upto 2 years	Upto 65 kmph	200		80	65-100	250		120	Max. 6 (Six) Tests to be conducted per Km								
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IRC 35:2015; Section 800 of MORTH	Laboratory Testing	Proportions of Constituents of Marking Material	<table><tr><td>Component</td><td>White</td><td>Yellow</td></tr><tr><td>Binder</td><td>18.0 Min</td><td>18.0 Min</td></tr><tr><td>Glass Beads</td><td>30-30</td><td>30-30</td></tr><tr><td>Titanium Dioxide</td><td>10.0 Min</td><td>--</td></tr><tr><td>Calcium Carbonate and Inert Filler</td><td>42.0 Max</td><td>--</td></tr></table>	Component	White	Yellow	Binder	18.0 Min	18.0 Min	Glass Beads	30-30	30-30	Titanium Dioxide	10.0 Min	--	Calcium Carbonate and Inert Filler	42.0 Max	--	1 sample for each color							
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		IRC 35:2015; Section 800 of MORTH	On Site Testing	Skid Resistance	Not less than 45 BPN (British Pendulum Number) as per BS:6044	Every 1 km for each color																				

Signature of Contractor

 Deputy Executive Engineer
 Panchayat (R&B) Division
 Surat