

| National Highway Authority of India | | | | | | | |
|--|--|-------------------|-----------|---------------------------|------------------------------|----------|--|
| Name of Work | | | | | | | |
| Name of Client | | | | | | | |
| Name of Consultant | | | | | | | |
| Name of Contractor | | | | | | | |
| AIV TEST | | | | | | | |
| AS PER IS 2386 Part IV | | | | | | | |
| Date of Sampling | | 1/1/2000 | | Date of Testing | | 1/1/2000 | |
| Sample No. | | | | Source of Material | | | |
| Type of Material | | 10mm | | Sample At | | | |
| S No. | Description | Test No. | | | | | |
| | | I | II | III | | | |
| 1 | Wt. Of Cylindrical measure (W1) gms | 0 | 0 | 0 | | | |
| 2 | Wt. Of Cylindrical measure+Sample (W2) gms | 0 | 0 | 0 | | | |
| 3 | Wt. Of sample placed in cylindrical measure (W2-W1) gms | 0 | 0 | 0 | | | |
| 4 | Wt. Of Crushed materiald passing IS sieve 2.36 mm (W3) gms | 0 | 0 | 0 | | | |
| 5 | Aggregate impact value = $100 \times W3 / (W2 - W1) (\%)$ | 0 | 0 | 0 | | | |
| 6 | Aggregate impact value(%) | 0 | | | | | |
| Remarks: | | | | | | | |
| Tested by | | Checked by | | | Random sample checked | | |
| | | | | | | | |
| Authority's Engineer | | Client | | | | | |
| Tested by | | Checked by | | | Random sample checked | | |

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| Name of Work | | | | | | | |
| Name of Client | | | | | | | |
| Name of Consultant | | | | | | | |
| Name of Contractor | | | | | | | |
| AIV TEST | | | | | | | |
| AS PER IS 2386 Part IV | | | | | | | |
| Date of Sampling | | 1/1/2000 | | Date of Testing | | 1/1/2000 | |
| Sample No. | | | | Source of Material | | | |
| Type of Material | | 20mm | | Sample At | | | |
| S No. | Description | Test No. | | | | | |
| | | I | II | III | | | |
| 1 | Wt. Of Cylindrical measure (W1) gms | 0 | 0 | 0 | | | |
| 2 | Wt. Of Cylindrical measure+Sample (W2) gms | 0 | 0 | 0 | | | |
| 3 | Wt. Of sample placed in cylindrical measure (W2-W1) gms | 0 | 0 | 0 | | | |
| 4 | Wt. Of Crushed materiald passing IS sieve 2.36 mm (W3) gms | 0 | 0 | 0 | | | |
| 5 | Aggregate impact value = $100 \times W3 / (W2 - W1) (\%)$ | 0 | 0 | 0 | | | |
| 6 | Aggregate impact value(%) | 0 | | | | | |
| Remarks: | | | | | | | |
| Tested by | | Checked by | | | Random sample checked | | |
| | | | | | | | |
| Authority's Engineer | | Client | | | | | |
| Tested by | | Checked by | | | Random sample checked | | |

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| National Highway Authority of India | | | | | |
| Name of Work | | | | | |
| Name of Client | | | | | |
| Name of Consultant | | | | | |
| Name of Contractor | | | | | |
| FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1) | | | | | |
| Date of Sampling | | 1/1/2000 | | Date of Testing | 1/1/2000 |
| Sample No. | | | | Source of Material | |
| Type of Material | | | | Sample At | |
| Sieve Size in(mm) | | Weight Retained (gm) | Weight of Aggregate Retained on Gauge(gm) | Weight of Agg. Passing Thickness Gauge (gm) | Weight of Agg. Retained on Length Gauge after retaining on Thickness Gauge(gm) |
| Passing | Retained | A | B | C | D |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 |
| Total Weight(gms) | | 0 | 0 | 0 | 0 |
| Flakiness Index | | (C/A)x100 | | 0% | |
| Elongation Index | | (D/B)x100 | | 0% | |
| Combined FI & EI Indices | | (C/A)x100 + (D/B)x100 | | 0% | |
| Remarks: | | | | | |
| Tested by | | | Checked by | | Random sample checked |
| | | | | | |
| | | | Authority's Engineer | | Client |

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| National Highway Authority of India | | | | |
| Name of Work | | | | |
| Name of Client | | | | |
| Name of Consultant | | | | |
| Name of Contractor | | | | |
| Individual Gradation | | | | |
| Date of Sampling | | Date of Testing | | |
| Sample No. | | Source of Material | | |
| Type of Material | | Sample At | | |
| Sample No-1 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Sample No-2 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Sample No-3 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Remarks: | | | | |
| Tested by | | Checked by | Random sample checked | |
| | | | | |
| Authority's Engineer | | Client | | |
| Tested by | | Checked by | Random sample checked | |

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| Name of Work | | | | |
| Name of Client | | | | |
| Name of Consultant | | | | |
| Name of Contractor | | | | |
| Individual Gradation | | | | |
| Date of Sampling | | Date of Testing | | |
| Sample No. | | Source of Material | | |
| Type of Material | | Sample At | | |
| Sample No-1 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| Sample No-2 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| Sample No-3 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| Remarks: | | | | |
| | | | | |
| Tested by | | Checked by | Random sample checked | |
| | | | | |
| Authority's Engineer | | Client | | |
| Tested by | | Checked by | Random sample checked | |

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| Name of Work | | | | |
| Name of Client | | | | |
| Name of Consultant | | | | |
| Name of Contractor | | | | |
| Individual Gradation | | | | |
| Date of Sampling | | Date of Testing | | |
| Sample No. | | Source of Material | | |
| Type of Material | | Sample At | | |
| Sample No-1 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Sample No-2 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Sample No-3 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Remarks: | | | | |
| Tested by | | Checked by | Random sample checked | |
| | | | | |
| Authority's Engineer | | Client | | |
| Tested by | | Checked by | Random sample checked | |

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| Name of Work | | | | |
| Name of Client | | | | |
| Name of Consultant | | | | |
| Name of Contractor | | | | |
| Individual Gradation | | | | |
| Date of Sampling | | Date of Testing | | |
| Sample No. | | Source of Material | | |
| Type of Material | | Sample At | | |
| Sample No-1 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Sample No-2 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Sample No-3 | | Total Weight(gms) | 0 | |
| IS SIEVE | Wt. Of Retained(gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| Remarks: | | | | |
| Tested by | | Checked by | Random sample checked | |
| | | | | |
| Authority's Engineer | | Client | | |
| Tested by | | Checked by | Random sample checked | |

| National Highway Authority of India | | | | | | | | | | | | |
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| Name of Work | | | | | | | | | | | | |
| Name of Client | | | | | | | | | | | | |
| Name of Consultant | | | | | | | | | | | | |
| Name of Contractor | | | | | | | | | | | | |
| WMM | | | | | | | | | | | | |
| AS PER IS 2386 Part IV | | | | | | | | | | | | |
| IS SIEVE | Average of Individual % Passing | | | | % Taken for design | | | | Combined % Passing | MID LIMIT | SPECIFICATION LIMIT AS PER MORTH | |
| | 40 MM | 20 MM | 10 MM | Dust | 40 MM 20 MM 10 MM Dust | | | | | | Lower | Higher |
| | | | | | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 | 100 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 97.5 | 95 | 100 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 60 | 80 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 40 | 60 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32.5 | 25 | 40 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22.5 | 15 | 30 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 8 | 22 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 | 0 | 5 |
| Remarks: | | | | | | | | | | | | |
| Tested by | | | | | Checked by | | | | Random sample checked | | | |
| | | | | | | | | | | | | |
| Authority's Engineer | | | | | | | Client | | | | | |
| Tested by | | | | | Checked by | | | | Random sample checked | | | |

| National Highway Authority of India | | | | | | | |
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| Name of Work | | | | | | | |
| Name of Client | | | | | | | |
| Name of Consultant | | | | | | | |
| Name of Contractor | | | | | | | |
| WMM COMBIEND GRADATION | | | | | | Date: | |
| 40mm: 0 | 20mm: 0 | 10mm: 0 | Stone Dust: 0 | Total Weight | | 0 | |
| IS SIEVE | Wt. Of Retained (gms) | Cumulative Weight Retained | Cumulative % Retained | Cumulative % Passing | MID LIMIT | SPECIFICATION LIMIT AS PER MORTH | |
| | | | | | | Lower | Higher |
| 0 | 0 | 0 | 0 | 0 | 100.00 | 100.00 | 100.00 |
| 0 | 0 | 0 | 0 | 0 | 97.50 | 95 | 100 |
| 0 | 0 | 0 | 0 | 0 | 70.00 | 60 | 80 |
| 0 | 0 | 0 | 0 | 0 | 50.00 | 40 | 60 |
| 0 | 0 | 0 | 0 | 0 | 32.50 | 25 | 40 |
| 0 | 0 | 0 | 0 | 0 | 22.50 | 15 | 30 |
| 0 | 0 | 0 | 0 | 0 | 15.00 | 8 | 22 |
| 0 | 0 | 0 | 0 | 0 | 2.50 | 0 | 5 |
| Remarks: | | | | | | | |
| Tested by | | | Checked by | | Random sample checked | | |
| | | | | | | | |
| Authority's Engineer | | | | Client | | | |
| Tested by | | | Checked by | | Random sample checked | | |

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| Name of Work | | | | | |
| Name of Client | | | | | |
| Name of Consultant | | | | | |
| Name of Contractor | | | | | |
| SPECIFIC GRAVITY AND WATER ABSORPTION TEST | | | | | |
| IS 2386 - PART III | | | | | |
| Date of Sampling | | 1/1/2000 | Date of Testing | | 1/1/2000 |
| Sample No. | | | Source of Material | | |
| Type of Material | | 10mm | Sample At | | |
| S No. | Description | | Trial 1 | Trial 2 | Trial 3 |
| 1 | Weight of Sample in Water | W1(gms) | 0 | 0 | 0 |
| 2 | Weight of SSD Sample | W2(gms) | 0 | 0 | 0 |
| 3 | Weight of Oven Dry Sample | W3(gms) | 0 | 0 | 0 |
| 4 | Bulk Specific Gravity | =W3/(W2-W1) | 0 | 0 | 0 |
| 5 | Apparent Specific Gravity | =W3/(W3-W1) | 0 | 0 | 0 |
| 6 | Water Absorption (%) | = 100 x (W2-W3)/W3 | 0 | 0 | 0 |
| 7 | Average Bulk Specific Gravity | | 0 | | |
| 8 | Average Apparent Specific Gravity | | 0 | | |
| 7 | Average Water Absorption % | | 0 | | |
| Remarks: | | | | | |
| Tested by | | Checked by | | Random sample checked | |
| | | | | | |
| | | Authority's Engineer | | Client | |
| Tested by | | Checked by | | Random sample checked | |

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| Name of Work | | | | | |
| Name of Client | | | | | |
| Name of Consultant | | | | | |
| Name of Contractor | | | | | |
| SPECIFIC GRAVITY AND WATER ABSORPTION TEST | | | | | |
| IS 2386 - PART III | | | | | |
| Date of Sampling | | 1/1/2000 | Date of Testing | | 1/1/2000 |
| Sample No. | | | Source of Material | | |
| Type of Material | | 20mm | Sample At | | |
| S No. | Description | | Trial 1 | Trial 2 | Trial 3 |
| 1 | Weight of Sample in Water | W1(gms) | 0 | 0 | 0 |
| 2 | Weight of SSD Sample | W2(gms) | 0 | 0 | 0 |
| 3 | Weight of Oven Dry Sample | W3(gms) | 0 | 0 | 0 |
| 4 | Bulk Specific Gravity | =W3/(W2-W1) | 0 | 0 | 0 |
| 5 | Apparent Specific Gravity | =W3/(W3-W1) | 0 | 0 | 0 |
| 6 | Water Absorption (%) | = 100 x (W2-W3)/W3 | 0 | 0 | 0 |
| 7 | Average Bulk Specific Gravity | | 0 | | |
| 8 | Average Apparent Specific Gravity | | 0 | | |
| 7 | Average Water Absorption % | | 0 | | |
| Remarks: | | | | | |
| Tested by | | Checked by | | Random sample checked | |
| | | | | | |
| | | Authority's Engineer | | Client | |
| Tested by | | Checked by | | Random sample checked | |

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| Name of Work | | | | | |
| Name of Client | | | | | |
| Name of Consultant | | | | | |
| Name of Contractor | | | | | |
| SPECIFIC GRAVITY AND WATER ABSORPTION TEST | | | | | |
| IS 2386 - PART III | | | | | |
| Date of Sampling | | 1/1/2000 | Date of Testing | | 1/1/2000 |
| Sample No. | | | Source of Material | | |
| Type of Material | | 40mm | Sample At | | |
| S No. | Description | | Trial 1 | Trial 2 | Trial 3 |
| 1 | Weight of Sample in Water | W1(gms) | 0 | 0 | 0 |
| 2 | Weight of SSD Sample | W2(gms) | 0 | 0 | 0 |
| 3 | Weight of Oven Dry Sample | W3(gms) | 0 | 0 | 0 |
| 4 | Bulk Specific Gravity | =W3/(W2-W1) | 0 | 0 | 0 |
| 5 | Apparent Specific Gravity | =W3/(W3-W1) | 0 | 0 | 0 |
| 6 | Water Absorption (%) | = 100 x (W2-W3)/W3 | 0 | 0 | 0 |
| 7 | Average Bulk Specific Gravity | | 0 | | |
| 8 | Average Apparent Specific Gravity | | 0 | | |
| 7 | Average Water Absorption % | | 0 | | |
| Remarks: | | | | | |
| Tested by | | Checked by | | Random sample checked | |
| | | | | | |
| | | Authority's Engineer | | Client | |
| Tested by | | Checked by | | Random sample checked | |

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| Name of Work | | | | | |
| Name of Client | | | | | |
| Name of Consultant | | | | | |
| Name of Contractor | | | | | |
| SPECIFIC GRAVITY AND WATER ABSORPTION TEST | | | | | |
| IS 2386 - PART III | | | | | |
| Date of Sampling | | 1/1/2000 | Date of Testing | | 1/1/2000 |
| Sample No. | | | Source of Material | | |
| Type of Material | | Stone Dust | Sample At | | |
| S No. | Description | | Trial 1 | Trial 2 | Trial 3 |
| 1 | Weight of Sample in Water | W1(gms) | 0 | 0 | 0 |
| 2 | Weight of SSD Sample | W2(gms) | 0 | 0 | 0 |
| 3 | Weight of Oven Dry Sample | W3(gms) | 0 | 0 | 0 |
| 4 | Bulk Specific Gravity | $=W3/(W2-W1)$ | 0 | 0 | 0 |
| 5 | Apparent Specific Gravity | $=W3/(W3-W1)$ | 0 | 0 | 0 |
| 6 | Water Absorption (%) | $= 100 \times (W2-W3)/W3$ | 0 | 0 | 0 |
| 7 | Average Bulk Specific Gravity | | 0 | | |
| 8 | Average Apparent Specific Gravity | | 0 | | |
| 7 | Average Water Absorption % | | 0 | | |
| Remarks: | | | | | |
| Tested by | | Checked by | | Random sample checked | |
| | | | | | |
| | | Authority's Engineer | | Client | |
| Tested by | | Checked by | | Random sample checked | |