

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED

**(FORMERLY KARNATAKA LAND ARMY CORPORATION LIMITED)
GRAMEENABHIVRUDDHI BHAVANA, 4th & 5th FLOOR, ANAND RAO CIRCLE BANGALORE-9**



Quality Control Register Part 1 (Building Work)

Record of Tests

District:

Programme Implementation Unit(Name of Project):

Name of Work:

Total Volumes of this Register:

This Volume Number:

**Prescribed By:
Quality Control Cell,
KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED, BANGALORE**

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED
(FORMERLY KARNATAKA LAND ARMY CORPORATION LIMITED)
GRAMEENABHIVRUDDHI BHAVANA, 4th & 5th FLOOR, ANAND RAO CIRCLE BANGALORE-9

Quality Control Register Part 1

Record of Tests

Contents

| Sl. No. | Description | Page |
|----------------|-----------------------------|-------------|
| 1. | Soil Investigation | 3 |
| 2. | Concrete for Structures | 4 |
| 3. | Brick and Stone Masonry | 21 |
| 4. | Steel Reinforcements | 31 |
| 5. | Plastering & Flooring | 33 |
| 6. | Water supply and Sanitation | 34 |
| 7. | Electrification work | 34 |
| 8. | Finishing work | 35 |

All these specifications and tables have been drawn by referring IRC codes, Building codes, KRRDA norms and IS codes, compiled and rearranged by
T.H. Gurumurthy, EE
K. Abdul Raheem, AEE,
Quality Control Cell,
KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED,
BANGALORE

Quality Control Register Part-1
Record of Tests: Section - 1 Soil Investigation
Details of Lab Tests conducted for SBC and Classification of soil for foundation

Type of Soil :-

Whether Ground water table encountered :-

AVERAGE SOIL PROPERTIES AT A DEPTH m to..... m

| <u>Sl No.</u> | <u>PARTICULARS</u> | <u>Test Pit-1</u> | <u>Test Pit-1</u> | <u>Test Pit-1</u> |
|---------------|--|-------------------|-------------------|-------------------|
| 01. | Specific Gravity (G_{27}^0) | | | |
| 02. | Incitive bulk density ($r_t - \text{KN} / \text{M}^3$) | | | |
| 03. | Natural Moisture Content ($W_n \%$) | | | |
| 04. | Incitive dry density ($r_d - \text{KN} / \text{M}^3$) | | | |
| 05. | Grain size Distribution Analysis. Texture: Gravel %; Sand %; Fines %; | | | |
| 06. | Atterberg limits & indices Liquid limit ($W_L \%$) Plastic limit ($W_p \%$) Plasticity Index ($I_p \%$) | | | |
| 07. | Triaxial Compression Test Cohesion ($C - \text{KN} / \text{M}^2$) Friction angle (ϕ^0) | | | |
| 08. | Consolidation Test. Compression index (C_c) | | | |
| 09. | Differential Free Swell Index (%) | | | |
| 10. | Classification (ISSCS) IS: 1498 - 1970 | | | |
| 11. | | | | |

SBC of Soil :

Recommendation :

JE/AE:

Counter Signed by:

AEE:

EE:

Quality Control Register Part-1
Record of Tests: Section - 2 Concrete for Structures
Abstract of tests Conducted

| Test No. | Name of Test | Test No. | Date of Test Result | Qualified Not Qualified If No. Page No. | and Date of NCR Page No. & Date on | Which Test Qualified |
|----------|---|------------|---------------------|---|------------------------------------|----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Concrete for structures | | | | | |
| | <u>Test prior to construction</u> | | | | | |
| CC-1 | Setting time of cement | Test 1 | | | | |
| CC-2 | Soundness | Test 2 | | | | |
| CC-3 | Comp. sig of mortor cubes | Test 1 | | | | |
| CC-4 | Crushing stg. Of CA | Test 1 | | | | |
| GB-1 | Flackiness Index | Test 1 | | | | |
| GB-2 | Water absorption | Test 1 | | | | |
| GB-3/4 | Soundness (if water | | | | | |
| | Absorption exceeds 2%) | Test 1 | | | | |
| SB-2 | Aggregate impact value | Test 1 | | | | |
| CC-8 | Water for construction | Test 1 | | | | |
| CC-9 | Deleterious constituents | Test 1 | | | | |
| CC-10 | Gradation of FA | Test 1 | | | | |
| | | Test 2 | | | | |
| | | Test 3 | | | | |
| CC-11 | Gradation of CA | Test 1 | | | | |
| | | Test 2 | | | | |
| | | Test 3 | | | | |
| CC-12 | Alkali Silica reactivity | Test 1 | | | | |
| CC-13 | Mix Design | Test Table | | | | |
| | <u>Tests during construction</u> | | | | | |
| CC-5 | Workability of concrete | Test Table | | | | |
| CC-6 | Comp. Stg of CC cubes | Test Table | | | | |
| CC-14 | Moisture content of FA/CA | Test Table | | | | |
| CC-15 | Form work, construction | | | | | |
| | Joints and surface finish | Test Table | | | | |
| CC-16 | Cement consumption, adherence to mix design, Transporting, Placing, Compaction and curing of concrete | Test Table | | | | |

Quality Control Register Part-1

Section - 2 : Concrete for Structures

Quantities of Items, Quality control tests, Frequencies and Total Number of Tests Required

| Sl. No. | Description of item of Work | Unit | Quantity | Test No. | Name of Test | Frequency of Tests | No. of tests reqd |
|---------|--------------------------------|------|----------|----------|---|---|-------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | CONCRETE FOR STRUCTURES | | | | | | |
| | | | | | <u>Tests Prior to Construction</u> | | |
| | | | | CC-1 | Setting time of Cement | One test for 2000 bags 10 tonnes | |
| | | | | CC-2 | Soundness of cement | One test for 2000 bags or 10 tonnes | |
| | | | | CC-3 | Compressive Stg of Mortor Cubes | 3 specimens for each lot | |
| | | | | CC-4 | Crushing strength of CA | 3 samples from each source | |
| | | | | CC10 | Gradation of FA | 3 samples from each source | |
| | | | | CC-11 | Gradation of CA | 3 samples from each source | |
| | | | | GB-1 | Flakiness Index | Once for each source | |
| | | | | SB-2 | Aggregate Impact Value | One test per source | |
| | | | | GB-2 | Water absorption | One test per source | |
| | | | | GB3/4 | Soundness (if water absorption exceeds 2%) | Once | |
| | | | | CC-12 | Alkali Silica reactivity | If in doubt - once | |
| | | | | CC-9 | Deleterious constituents of FA/CA | If in doubt, one test | |
| | | | | CC-8 | Water for construction | Once for large work for each source | |
| | | | | CC-13 | Mix design | Before approval | |
| | | | | | <u>Tests during Construction</u> | | |
| | | | | CC-14 | Moisture content of sand/CA | Once | |
| | | | | CC-5 | Workability of concrete by slump test | 2 tests / day | |
| | | | | CC-6 | Compressing Stg of CC cubes & its Reviev. | Min 6 cubes per day | |
| | | | | CC-15 | Form Work, Construction joints, and Surface finish, | Daily and through out concerting and as and when work demands | |
| | | | | CC-16 | Cement consumption, adherence to mix design, Transporting, placing, compaction and curing of concrete | Regularly and Daily | |

TEST FOR CONCRETE STRUCTURES

TEST PRIOR TO CONSTRUCTION

1. Tests on Water:

Sample:

Reference No:

Date & Time:

Name of project:

Place of work:

Name of work:

Estimation cost:

QCT 21: Laboratory tests on Water

| Sl.no. | Tests carried out | BIS code Ref. | Results obtained | | Remarks |
|--------|-------------------------------------|------------------|--------------------|------------------|---------|
| | | | As per Standard | As per report | |
| 1 | PH value | IS 3025-1964 | | | |
| 2 | Concentration of solids in water | | | | |
| 3 | Sulphate impurities | | | | |
| 4 | Organic / Inorganic solids | 456-1978 | | | |
| 5 | Chloride content | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-2**Setting Time of Cement (IS 4032 (Part 5) - 1988**

Road / Section details :

Date of testing :

Sample No.

| Sl. No. | Starting time (Stop watch) To | Time when initial set has taken place T1 | Time when final set has taken place T2 | Initial setting time = T1-T6 | Final setting time = T2-T0 | Whether acceptable Y/N | If No. Date of NCR issued and page no. of Q/C Part II |
|---------|-------------------------------|--|--|------------------------------|----------------------------|------------------------|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-2**Soundness of Cement by Le-Chatelier Method
IS 4031 (Part 3) - 1988**

Road / Section details :

Date :

| Specimen No | Wt. of Cement W (gm) | Distance Separating the Indicator Points (mm) | |
|-------------|----------------------|---|------------------|
| | | Before Submersion | After Submersion |
| | | | |
| | | | |
| | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-2**Compressive Stg of Cement IS 4031 (Part 6) - 1988**

Road / Section details :

Date :

| Sl. No | Compressive Stg after 3 days | | | | Compressive at 7 days | | | |
|--------|-------------------------------|-----------------------|----------------------------|---------------|-------------------------------|-----------------------|----------------------------|---------------|
| | Observation | | | | Observation | | | |
| | Plan area A(mm ²) | Load at failure W (N) | Comp Stg N/mm ² | Average Stg N | Plan area A(mm ²) | Load at failure N (N) | Comp Stg N/mm ² | Average Stg N |
| | | | | | | | | |
| | | | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

**Crushing Strength of coarse aggregate
(IS : 2720 (Part 22) - 1972)**

Sample No :

Date :

Name of Quarry/Location

| Sl. No. | Wt. of the container C gm | Wt. of surfaces dry specimen + container A gms | Wt. of fines passing 2.36 mm + container B gms | Crushing Value = $B - C \times 100\%$ A - C | Whether the volume is within the permissible limits (Y/N) | If no, Date & NCR issued and page no. of Q/C Part II |
|---------|------------------------------|---|---|--|---|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Aggregate Impact Value (IS : 2386 - Part 4)

Test 3

Sample No :

Date of Testing :

Name of Quarry/Location :

Weight of Sample taken:

| Observations | Test No. | | | Average |
|--|----------|---|---|---------|
| | 1 | 2 | 3 | |
| Weight of aggregate sample filling in the cylinder = W, (gm) | | | | |
| Weight of aggregate passing 2.36 mm Sieve after the test = W ₂ (gm) | | | | |

| Layer | Value | Permissible Limit | Whether Conforms to the Prescribed Limits (Yes/No) |
|-------|-------|-------------------|--|
| | | Max 30% | |

If Results don't conform to the prescribed limits, non conformance Report will be issued by the PIU. The reference of the Page No. of this Register on which Non Conformance Reports copy preserved.

Page No..... Date of issue.....

Test on water (IS : 3025 (17, 18, 23, 24, 32)

| Sample No. | Ph Value and its acceptance (Y/N) | Limits of acidity and its acceptance (Y/N) | Limits of solids and its acceptance (Y/N) | Loss in Stg and its acceptance (Y/N) | Setting time and its acceptance (Y/N) | Remarks |
|------------|-----------------------------------|--|---|--------------------------------------|---------------------------------------|---------|
| | | | | | | |
| | | | | | | |
| | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form No. GB-1

Flakiness Index of Aggregate

Test 1

Sample No :

Date of Sampling :

Name of Quarry/Location :
(gm)

Date of Testing:

| Size of aggregate | | Wt. of the fraction consisting of at least 200 pieces (gm) | Thickness gauge size, (0.6 times the mean sieve) (mm) | Weight of aggregate in each fraction passing thickness gauge (gm) |
|---------------------------------|-----------------------------|--|---|---|
| Passing through I.S. Sieve (mm) | Retained on I.S. Sieve (mm) | | | |
| 63 | 50 | $W_1 =$ | 33.90 | M = |
| 50 | 40 | $W_2 =$ | 27.00 | M = |
| 40 | 31.5 | $W_3 =$ | 21.50 | M = |
| 31.5 | 25 | $W_4 =$ | 16.25 | M = |
| 25 | 20 | $W_5 =$ | 13.50 | M = |
| 20 | 16 | $W_6 =$ | 10.80 | M = |
| 16 | 12.5 | $W_7 =$ | 8.55 | M = |
| 12.5 | 10 | $W_8 =$ | 6.75 | M = |
| 10 | 6.3 | $W_9 =$ | 4.89 | M = |
| Total | | $W =$ | | M = |

$$\text{Flakiness Index (F.I.)} = \frac{M}{W} \times 100 = (\%)$$

| Layer | Value | Permissible Limit | Whether Conforms to the Prescribed Limits (Yes/No) |
|--|-------|-------------------|--|
| | | Max. 25% | |
| If Result don't conform to the prescribed to the prescribed limits, non conformance Report will be issued by the PIU. The reference of the Page No. of this Register on which Non Conformance Reports copy preserved. Page No..... Date of issue..... | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-9

Deleterious Materials and Organic Impurities Test
IS 2386 Part (2) - 1963

Road / Section Details :

Date of Testing :

| Sl. No. | Type of aggregate CA/FA | Sample No | Organic Impurities | % of Deleterious Materials | Whether the values are within the acceptable limits (Y/N) | If no, Date & NCR issued and page no. of Q/C Part II |
|---------|-------------------------|-----------|--------------------|----------------------------|---|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-10**Gradation of Sand**

Road / Section Details :

Date of Testing :

Sample No :

Test 1

Wt. of Sample taken :

| Sieve Size | Wt. of sand Retained (gm) | Percent of Wt. Retained % | Cumulative percent of Wt. retained (%) | Percentage of wt. passing | Permissible value Zone II |
|------------|---------------------------|---------------------------|--|---------------------------|---------------------------|
| 10 mm | | | | | 100 |
| 4.75 mm | | | | | 90 - 100 |
| 2.36 mm | | | | | 75 - 100 |
| 1.18 mm | | | | | 55 - 90 |
| 600 micron | | | | | 35 - 59 |
| 300 micron | | | | | 8 - 30 |
| 150 micron | | | | | 0 - 10 |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-11**Gradation of Coarse Aggregates****Test 1**

| Sieve Size | Wt. of sand Retained (gm) | Percent of Wt. Retained % | Cumulative percent of Wt. retained (%) | Percentage of wt. passing | Permissible value | | |
|------------|---------------------------|---------------------------|--|---------------------------|---|--------|---------|
| | | | | | Percent of weight passing the sieve for nominal size of | | |
| | | | | | 40 mm | 20 mm | 12.5 mm |
| 63 mm | | | | | 100 | - | - |
| 40 mm | | | | | 95-100 | 100 | - |
| 20 mm | | | | | 30-70 | 95-100 | 100 |
| 12.5 mm | | | | | - | - | 90-100 |
| 10 mm | | | | | 10-35 | 25-55 | 40-85 |
| 4.75 mm | | | | | 0-5 | 0-10 | 0-10 |

Checked by : AEE/EE

Tested by : AE/JE

**Gradation of Sand
Test 2**

Road / Section Details :
Sample No :

Date of Testing :
Wt. of Sample taken :

| Sieve Size | Wt. of sand Retained (gm) | Percent of Wt. Retained % | Cumulative percent of Wt. retained (%) | Percentage of wt. passing | Permissible value Zone II |
|------------|---------------------------|---------------------------|--|---------------------------|---------------------------|
| 63 mm | | | | | 100 |
| 40 mm | | | | | 90 - 100 |
| 20 mm | | | | | 75 - 100 |
| 12.5 mm | | | | | 55 - 90 |
| 10 mm | | | | | 35 - 59 |
| 4.75 mm | | | | | 8 - 30 |
| 63 mm | | | | | 0 - 10 |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-11

**Gradation of Coarse Aggregates
Test 2**

| Sieve Size | Wt. of sand Retained (gm) | Percent of Wt. Retained % | Cumulative percent of Wt. retained (%) | Percentage of wt. passing | Permissible value | | |
|------------|---------------------------|---------------------------|--|---------------------------|---|--------|---------|
| | | | | | Percent of weight passing the sieve for nominal size of | | |
| | | | | | 40 mm | 20 mm | 12.5 mm |
| 63 mm | | | | | 100 | - | - |
| 40 mm | | | | | 95-100 | 100 | - |
| 20 mm | | | | | 30-70 | 95-100 | 100 |
| 12.5 mm | | | | | - | - | 90-100 |
| 10 mm | | | | | 10-35 | 25-55 | 40-85 |
| 4.75 mm | | | | | 0-5 | 0-10 | 0-10 |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-10

**Gradation of Sand
Test 3**

Road / Section Details :
Sample No :

Date of Testing :
Wt. of Sample taken :

| Sieve Size | Wt. of sand Retained (gm) | Percent of Wt. Retained % | Cumulative percent of Wt. retained (%) | Percentage of wt. passing | Permissible value Zone II |
|------------|---------------------------|---------------------------|--|---------------------------|---------------------------|
| 10 mm | | | | | 100 |
| 4.75 mm | | | | | 90 - 100 |
| 2.36 mm | | | | | 75 - 100 |
| 1.18 mm | | | | | 55 - 90 |
| 600 micron | | | | | 35 - 59 |
| 300 micron | | | | | 8 - 30 |
| 150 micron | | | | | 0 - 10 |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-11

**Gradation of Coarse Aggregates
Test 3**

| Sieve Size | Wt. of sand Retained (gm) | Percent of Wt. Retained % | Cumulative percent of Wt. retained (%) | Percentage of wt. passing | Permissible value | | |
|------------|---------------------------|---------------------------|--|---------------------------|---|--------|---------|
| | | | | | Percent of weight passing the sieve for nominal size of | | |
| | | | | | 40 mm | 20 mm | 12.5 mm |
| 63 mm | | | | | 100 | - | - |
| 40 mm | | | | | 95-100 | 100 | - |
| 20 mm | | | | | 30-70 | 95-100 | 100 |
| 12.5 mm | | | | | - | - | 90-100 |
| 10 mm | | | | | 10-35 | 25-55 | 40-85 |
| 4.75 mm | | | | | 0-5 | 0-10 | 0-10 |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-10

**Gradation of Sand
Test 3**

Road / Section Details :

Date of Testing :

Sample No :

Wt. of Sample taken :

| Sieve Size | Wt. of sand Retained (gm) | Percent of Wt. Retained % | Cumulative percent of Wt. retained (%) | Percentage of wt. passing | Permissible value Zone II |
|------------|---------------------------|---------------------------|--|---------------------------|---------------------------|
| 10 mm | | | | | 100 |
| 4.75 mm | | | | | 90 - 100 |
| 2.36 mm | | | | | 75 - 100 |
| 1.18 mm | | | | | 55 - 90 |
| 600 micron | | | | | 35 - 59 |
| 300 micron | | | | | 8 - 30 |
| 150 micron | | | | | 0 - 10 |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-11

**Gradation of Coarse Aggregates
Test 3**

| Sieve Size | Wt. of sand Retained (gm) | Percent of Wt. Retained % | Cumulative percent of Wt. retained (%) | Percentage of wt. passing | Permissible value | | |
|------------|---------------------------|---------------------------|--|---------------------------|---|--------|---------|
| | | | | | Percent of weight passing the sieve for nominal size of | | |
| | | | | | 40 mm | 20 mm | 12.5 mm |
| 63 mm | | | | | 100 | - | - |
| 40 mm | | | | | 95-100 | 100 | - |
| 20 mm | | | | | 30-70 | 95-100 | 100 |
| 12.5 mm | | | | | - | - | 90-100 |
| 10 mm | | | | | 10-35 | 25-55 | 40-85 |
| 4.75 mm | | | | | 0-5 | 0-10 | 0-10 |

Checked by : AEE/EE

Tested by : AE/JE

Form GB-2

Water Absorption of Aggregate [IS : 2386 (part-3)]

Sample No :

Date of Sampling :

Name of Quarry / Location :

Date of Testing :

Size of aggregate :

Type of aggregate :

| Sl. No. | Specimen No. | Weight of Saturated surface dry sample B gms. | Weight of oven dried sample A gms | Water Absorption (%) = $\frac{B-A}{A} \times 100$ | Average Value | Remarks |
|---------|--------------|---|-----------------------------------|--|---------------|---------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Value | Permissible Limit | Whether Conforms to the Prescribed Limits (Yes/No) |
|--|-------------------|--|
| | | |
| <p>If Results don't conform to the prescribed limits, non conformance Report will be issued by the PIU. The reference of the Page No. of this Register on which Non Conformance Reports copy preserved.</p> <p>Page No..... Date of issue.....</p> | | |

Checked by : AEE/EE

Tested by : AE/JE

Soundness test of aggregate with sodium sulphate / Magnesium Sulphate**[IS : 2386 (part-5)]****Test 1**

Sample No :

Date of Sampling :

Name of Quarry / Location :

Date of Testing :

Size of aggregate :

Type of aggregate :

| Sieve Size, mm | | Grading of Original sample (%) | Weight of each fraction before test (gms) | Percentage passing finer sieve after test (actual percent loss) | Remarks |
|--|----------|--------------------------------|---|---|---------|
| Passing | Retained | | | | |
| 1 | 2 | 3 | 5 | 6 | 7 |
| 60 | 40 | | | | |
| 40 | 20 | | | | |
| 20 | 10 | | | | |
| 10 | 4.75 | | | | |
| Number of particles coarser than 20 mm before test | | | Number of particles affected, classified as to the number disintegrating, splitting, crumbing, cracking or flanking | | |
| Passing | Retained | Number before test | | | |
| 40 mm | 20 mm | | | | |
| 60 mm | 40 mm | | | | |

| Value | Permissible Limit | Whether Conforms to the Prescribed Limits (Yes/No) |
|--|--|--|
| | Max. 12% for Sodium Sulphate Mas 18% for Magnesium Sulphate | |
| If Results don't conform to the prescribed limits, non conformance Report will be issued by the PIU. The reference of the Page No. of this Register on which Non Conformance Reports copy preserved. | | |
| Page No..... Date of issue..... | | |

Checked by : AEE/EE

Tested by : AE/JE

**Alkali Aggregate Reactivity
IS 2386 (Part VII) - 1963**

From Lab - Paste the Report

**Mix Design
IS : 10262 - 1982 and IRC SP 23 (S & T) - 1982**

Paste the Report

Checked by : AEE/EE

Tested by : AE/JE

Form CC-14

Moisture content of sand / Coarse aggregate

Road / Section details :

Date :

| Sl. No. | Sample No. | Wt. of FA/CA W_1 gms | Wt. of oven dried FA/CA W_2 gms | Moisture content $= \frac{W_1 - W_2}{100 W_2} \times$ | Remarks |
|---------|------------|---------------------------|--------------------------------------|--|---------|
| | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-15

Test for Concrete Structures
Test during construction
Formwork, Construction Joints and Surface Finish

Form CC-16

Test for Concrete Structures
Test during construction
Cement Consumption, Adherence to mix design, transporting, Placing, Compaction and
Curing of Concrete

Checked by : AEE/EE

Tested by : AE/JE

Form CC-5

Workability of Concrete

| | |
|---------------------------|---------------|
| Sample Identification No: | |
| Date of Testing : | No. of Sample |
| Quality of Concrete | Good / Bad |
| Weight of water (g) | |

| Sl. No. | Specimen No. | Concrete taken from (Place) | Value of Slump Test or compacting factor test |
|---------|--------------|-----------------------------|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| 13. | | | |
| 14. | | | |
| 15. | | | |
| 16. | | | |
| 17. | | | |
| 18. | | | |

| Layer | Value | Permissible Value | |
|-------|-------|-------------------|--|
| | | | |
| | | | |
| | | | |

Checked by : AEE/EE

Tested by : AE/JE

**Compressive Strength of Concrete Cubes
(IS - 516 - 1959)**

| | |
|---------------------------|--|
| Sample Identification No: | Age (Days) 7 and 28 days |
| Date of Testing : | Minimum No. of Samples = 3 for each test |
| Temperature and Humidity | 27± 2°C, Relative Humidity = 90% |
| Mis Proportion by weight | As specified or as per Mix Design IRC : 44/IS : 10262-1982 |
| Rate of Loading | 140 Kg/sqcm/minute |
| Workability | As per the requirement of Slump/Compaction Factor |

| Sl. No. | Specimen No. | Plan Area of cube mould 15 mm x 150 mm Ap | Maximum Applied Load just before failure at 7 and 28 days (kg) Ap | Compressive Strength (kg/cm ²) W1 AP 7 days 28 days |
|---|--------------|--|--|--|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| Average flexural strength of concrete sample (kg/cm ²) at 7 and 28 days) nearest to 1 kg/sqcm | | | | |
| | | | | |

| Layer | Value | Permissible Limit | |
|-------|-------|---|---|
| | | Specified compressive strength of concrete sample (kg/cm ²) at 7 and 28 days) | Individual Variation = + 15% of the average |

Checked by : AEE/EE

Tested by : AE/JE

Quality Control Register Part-1
Record of Tests: Section - 3 Brick and Stone Masonry
Abstract of tests Conducted

| Test No. | Name of Test | Test No. | Date of Test Result | Qualified Not Qualified If No. Page No. | And Date of NCR Page No. & Date on | Which Test Qualified |
|---|--|------------|---------------------|---|------------------------------------|----------------------|
| Brick & Stone Masonry | | | | | | |
| <u>Test prior to constyruction</u> | | | | | | |
| BR-1 | Colour, Shape, Texture, afflorescence, Dressing of stones and dimensional | | | | | |
| | Checks of bricks | Test Table | | | | |
| BR-2 | Water absorption | Test Table | | | | |
| BR-3 | Compressive Stg of bricks | Test Table | | | | |
| CC-1 | Settign time of cement | Test Table | | | | |
| BR-5 | Gradation of Sand | Test 1 | | | | |
| | | Test 2 | | | | |
| | | Test 3 | | | | |
| | | Test 4 | | | | |
| CC-7 | Deleterious materials test | Test Table | | | | |
| BR-6 | Consistancy, Water retentivity, Mix Proportions and consump- tion of mortor test | Test Table | | | | |
| CC-8 | Test on water | Test Table | | | | |
| BR-4 | Compressive Stg. Of Cement mortor | Test Table | | | | |
| <u>Test during construction</u> | | | | | | |
| BR-6 | Consistancy, Water reten- Tivity, Mix proportions and | Test Table | | | | |
| BR-7 | Height, bond, plumbness | Test Table | | | | |
| | Stagering, Thickness of joints and plaster, location, size and spacing of weepholes finishing and pointing | | | | | |
| BR-4 | Compressive Stg of mortor | Test 1 | | | | |
| | | Test 2 | | | | |
| | | Test 3 | | | | |

Quality Control Register Part-1

Section - 3: Brick and Stone Masonry

Quantities of Items, Quality control tests, Frequencies and Total Number of Tests Required

| Sl. No. | Description of item of Work | Unit | Quantity | Test No. | Name of Test | Frequency of Tests | No. of tests reqd |
|---------|--------------------------------|------|----------|----------|--|--|-------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | BRICK AND STONE MASONRY | | | | | | |
| | | | | | <u>Tests Prior to Construction</u> | | |
| | | | | BR-1 | Colour, Shape, Texture, efflorescence Dressing of stones & Dimensional check for bricks | 3 Samples at random at source | |
| | | | | BR-2 | Water absorption of bricks & Stones | 3 samples | |
| | | | | BR-3 | Compressive Strength of bricks | 3 Samples at random at source | |
| | | | | CC-1 | Setting time of cement | 3 samples of same type and grade | |
| | | | | BR-5 | Gradation of sand | 3 samples of each source of supply | |
| | | | | CC-7 | Deleterious materials and organic impurities | One best | |
| | | | | CC-8 | Water for construction (If in doubt) | One test for each source | |
| | | | | BR-6 | Consistency, Water retentivity and mix proportion for different works in SSM | As required | |
| | | | | BR-4 | Compressive Stg of mortar | 3 samples of cubes where specified | |
| | | | | | <u>Tests during Construction</u> | | |
| | | | | BR-7 | Height, bond, plumbness, staggering, Thickness of Joints & Plaster location, size and spacing of weepholes, finishing and pointing | For each course and Regularly | |
| | | | | BR-6 | Consistency and water retentivity, mix proportion and consumption of mortar | As required at close intervals | |
| | | | | BR-4 | Compressive stg. Of motor | 3 Samples of cubes where specified regularly | |

Test for Brick / Stone Masonry / Concrete Blocks**Test prior to construction**

Colour, Shape, Texture, efflorescence, Dressing of Stones & Dimensional check of bricks

Road / section details :

Date :

| Sample No. | Colour, Shape, Texture, Dressing of Stones, efflorescence of bricks etc is acceptable Y/N | Dimension | Whether Dimensions are within the permissible limits Y/N | If No, Date of issue of NCR & Page No. of Q.C. Reg. Part II |
|------------|---|-----------|--|--|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Water absorption test of Bricks / Stone IS 3495 (Part 2) 1992

Road / section details :

Date :

| Sample No. | Wt. of the dried specimen cooled at air temperature M_1 | Wt. of the specimen after immersion in water for 24hr M_2 | Water absorption percent by mass $\frac{M_2 - M_1}{M_1} \times 100$ | Whether water absorption is within the permissible limit? Y/N | If No, Date of issue of NCR & Page No. of Q/C Reg. Part II |
|------------|---|---|---|---|---|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |

Checked by : AE/AEE/EE

Tested by :

Compressive Strength of bricks (IS 3495(Part 1) - 1992

Road / section details :

Date :

| Sl. No. | Length of bed No.1 (mm) | Width of bed face No.1 (mm) | Area of bed face no.1 (mm ²) | Length of bed face no.2 (mm) | Width of bed face No.2 (mm) | Area of bed face no.1 (mm ²) | Average area of bed face (mm ²) | Max load at failure P N_n | Compressive strength <u>Max load</u> area of bed face (N/mm) | Whether comp. stg is within the permissible limit? Y/N | Whether comp.stg is within the permissible limit? Y/N | If no, date of Issue of NCR and page no. of Reg. Part II |
|---------|-------------------------|-----------------------------|--|------------------------------|-----------------------------|--|---|-----------------------------|--|--|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-5**Gradation test of sand (IS 2386 (Part 1-1963 & IS 2116-1984) & IS 1542-1977)****Test 1**

Road / section details :

Date of testing :

Sample No.

Wt. of soil sample taken : _____ gm

| IS Sieve Designation | Wt. of sand Retained (gm) | Percent of Wt. Retained | Cumulative percent of wt. retained (%) | Percentage of wt. passing | Prescribed Limits Percentage of wt. passing | |
|----------------------|---------------------------|-------------------------|--|---------------------------|---|---------|
| | | | | | Masonry | Plaster |
| 10 mm | | | | | - | 100 |
| 4.75 mm | | | | | 100 | 95-100 |
| 2.36 mm | | | | | 90-100 | 95-100 |
| 1.18 mm | | | | | 70-100 | 90-100 |
| 600 micron | | | | | 40-100 | 80-100 |
| 300 micron | | | | | 5-70 | 20-65 |
| 150 micron | | | | | 0-15 | 0-50 |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-5**Gradation test of sand (IS 2386 (Part 1-1963 & IS 2116-1984) & IS 1542-1977)****Test 2**

Road / section details :

Date of testing :

Sample No.

Wt. of soil sample taken : _____ gm

| IS Sieve Designation | Wt. of sand Retained (gm) | Percent of Wt. Retained | Cumulative percent of wt. retained (%) | Percentage of wt. passing | Prescribed Limits Percentage of wt. passing | |
|----------------------|---------------------------|-------------------------|--|---------------------------|---|---------|
| | | | | | Masonry | Plaster |
| 10 mm | | | | | - | 100 |
| 4.75 mm | | | | | 100 | 95-100 |
| 2.36 mm | | | | | 90-100 | 95-100 |
| 1.18 mm | | | | | 70-100 | 90-100 |
| 600 micron | | | | | 40-100 | 80-100 |
| 300 micron | | | | | 5-70 | 20-65 |
| 150 micron | | | | | 0-15 | 0-50 |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-5**Gradation test of sand (IS 2386 (Part 1-1963 & IS 2116-1984) & IS 1542-1977)****Test 3**

Road / section details :

Date of testing :

Sample No.

Wt. of soil sample taken : _____ gm

| IS Sieve Designation | Wt. of sand Retained (gm) | Percent of Wt. Retained | Cumulative percent of wt. retained (%) | Percentage of wt. passing | Prescribed Limits Percentage of wt. passing | |
|----------------------|---------------------------|-------------------------|--|---------------------------|---|---------|
| | | | | | Masonry | Plaster |
| 10 mm | | | | | - | 100 |
| 4.75 mm | | | | | 100 | 95-100 |
| 2.36 mm | | | | | 90-100 | 95-100 |
| 1.18 mm | | | | | 70-100 | 90-100 |
| 600 micron | | | | | 40-100 | 80-100 |
| 300 micron | | | | | 5-70 | 20-65 |
| 150 micron | | | | | 0-15 | 0-50 |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-5**Gradation test of sand (IS 2386(Part 1-1963 & IS 2116-1984) & IS 1542-1977)****Test 4**

Road / section details :

Date of testing :

Sample No.

Wt. of soil sample taken : _____ gm

| IS Sieve Designation | Wt. of sand Retained (gm) | Percent of Wt. Retained | Cumulative percent of wt. retained (%) | Percentage of wt. passing | Prescribed Limits Percentage of wt. passing | |
|----------------------|---------------------------|-------------------------|--|---------------------------|---|---------|
| | | | | | Masonry | Plaster |
| 10 mm | | | | | - | 100 |
| 4.75 mm | | | | | 100 | 95-100 |
| 2.36 mm | | | | | 90-100 | 95-100 |
| 1.18 mm | | | | | 70-100 | 90-100 |
| 600 micron | | | | | 40-100 | 80-100 |
| 300 micron | | | | | 5-70 | 20-65 |
| 150 micron | | | | | 0-15 | 0-50 |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-5**Gradation test of sand (IS 2386 (Part 1-1963 & IS 2116-1984) & IS 1542-1977)****Test 3**

Road / section details :

Date of testing :

Sample No.

Wt. of soil sample taken : _____ gm

| IS Sieve Designation | Wt. of sand Retained (gm) | Percent of Wt. Retained | Cumulative percent of wt. retained (%) | Percentage of wt. passing | Prescribed Limits Percentage of wt. passing | |
|----------------------|---------------------------|-------------------------|--|---------------------------|---|---------|
| | | | | | Masonry | Plaster |
| 10 mm | | | | | - | 100 |
| 4.75 mm | | | | | 100 | 95-100 |
| 2.36 mm | | | | | 90-100 | 95-100 |
| 1.18 mm | | | | | 70-100 | 90-100 |
| 600 micron | | | | | 40-100 | 80-100 |
| 300 micron | | | | | 5-70 | 20-65 |
| 150 micron | | | | | 0-15 | 0-50 |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-5**Gradation test of sand (IS 2386 (Part 1-1963 & IS 2116-1984) & IS 1542-1977)****Test 4**

Road / section details :

Date of testing :

Sample No.

Wt. of soil sample taken : _____ gm

| IS Sieve Designation | Wt. of sand Retained (gm) | Percent of Wt. Retained | Cumulative percent of wt. retained (%) | Percentage of wt. passing | Prescribed Limits Percentage of wt. passing | |
|----------------------|---------------------------|-------------------------|--|---------------------------|---|---------|
| | | | | | Masonry | Plaster |
| 10 mm | | | | | - | 100 |
| 4.75 mm | | | | | 100 | 95-100 |
| 2.36 mm | | | | | 90-100 | 95-100 |
| 1.18 mm | | | | | 70-100 | 90-100 |
| 600 micron | | | | | 40-100 | 80-100 |
| 300 micron | | | | | 5-70 | 20-65 |
| 150 micron | | | | | 0-15 | 0-50 |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-1

Setting Time of Cement (IS 4032 (Part 5) - 1988

Road / section details :
Sample No.

Date of testing :

| Sl. No. | Starting time (Stop watch) To | Time when initial set has taken place T1 | Time when final set has taken place T2 | Initial setting time = T1-T6 | Final setting time = T2-T0 | Whether acceptable Y/N | If No. Date of NCR issued and page no. of Q/C Part II |
|---------|-------------------------------|--|--|------------------------------|----------------------------|------------------------|---|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-7

**Deleterious Materials and Organic Impurities Test
IS 2386 Part**

Road / section details :

Date of testing :

| Sl. No. | Type of aggregate CA/FA | Sample No | Organic Impurities | % of Deleterious Materials | Whether values are within the acceptable limits Y/N | If No. Date of NCR issued and page no. of Q/C Part II |
|---------|-------------------------|-----------|--------------------|----------------------------|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-6

**Consistency, Water retentivity, Mix Proportions
and Consumption of mortar test
(IS 2250 - 1981)**

Road / Section Details :

Date of testing :

| Sl. No. | Sample No. | Consistency | Water retentivity | Mix Proportion | Consumption of mortar | Whether values are within the acceptable limits (Y/N) | If no, Date & NCR issued and page no. of Q/C Part II |
|---------|------------|-------------|-------------------|----------------|-----------------------|---|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form CC-8

Test on water (IS : 3025 (17,18,23,24,32))

| Sample No. | Ph Value and its acceptance (Y/N) | Limits of acidity and its acceptance (Y/N) | Limits of solids and its acceptance (Y/N) | Loss in Stg and its acceptance (Y/N) | Setting time and its acceptance (Y/N) | Remarks |
|------------|-----------------------------------|--|---|--------------------------------------|---------------------------------------|---------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-4

Compressive Stg. Of Cement Mortor

Road / Section details :

Date of testing :

Sample No.

| Sl. No. | Specimen No. | Plan area of Cube mould A (mm ²) | Load at failure w (N) | Compressive Stg=W/A N/mm ² |
|---------|--------------|--|-----------------------|---------------------------------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |

Checked by : AEE/EE

Tested by : AE/JE

**Consistency, Water retentivity, Mix Proportions
and Consumption of mortar test
(IS 2250 - 1981)**

Road / Section Details :

Date of testing :

| Sl. No. | Sample No. | Consistency | Water retentivity | Mix Proportion | Consumption of mortar | Whether values are within the acceptable limits (Y/N) | If no, Date & NCR issued and page no. of Q/C Part II |
|---------|------------|-------------|-------------------|----------------|-----------------------|---|--|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

**Height, Bond, Plumbness, Staggering & Thickness of Joints
Plaster Finish, Pointing, Location, Size and spacing & Weep holes
(IS 2250 - 1981)**

Road / Section Details :

Date of testing :

| Sl. No. | Location | Date | Whether acceptable limits (Y/N) | If no, Date of NCR issued and Page No. of Part II | Tested by | Checked by |
|---------|----------|------|---------------------------------|---|-----------|------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-4

**Compressive Stg. Of Cement Mortor
Test 1**

Road / Section details :
Sample No.

Date of testing :

| Sl. No. | Specimen No. | Plan area of Cube mould A (mm ²) | Load at failure w (N) | Compressive Stg=W/A N/mm ² |
|---------|--------------|--|-----------------------|---------------------------------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-4

**Compressive Stg. Of Cement Mortor
Test 2**

Road / Section details :
Sample No.

Date of testing :

| Sl. No. | Specimen No. | Plan area of Cube mould A (mm ²) | Load at failure w (N) | Compressive Stg=W/A N/mm ² |
|---------|--------------|--|-----------------------|---------------------------------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-4

**Compressive Stg. Of Cement Mortor
Test 3**

Road / Section details :
Sample No.

Date of testing :

| Sl. No. | Specimen No. | Plan area of Cube mould A (mm ²) | Load at failure w (N) | Compressive Stg=W/A N/mm ² |
|---------|--------------|--|-----------------------|---------------------------------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Quality Control Register Part-1
Record of Tests: Section - 4 Steel Reinforcements
Abstract of tests Conducted

| Test No. | Name of Test | Test No. | Date of Test Result | Qualified Not Qualified If No. Page No. | and Date of NCR Page No. & Date on | Which Test Qualified |
|--|--|------------|---------------------|---|------------------------------------|----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Steel Reinforcements | | | | | | |
| <u>Test prior to construction</u> | | | | | | |
| SR-1 | Grade, Percentage elongatin and ultimate | | | | | |
| | Tensile stg. Of steel | Test Table | | | | |
| SR-2 | Pitch of the ribs, nominal | | | | | |
| | Diameter protection and | | | | | |
| | Storage of steel | Test Table | | | | |
| <u>Tests during construction</u> | | | | | | |
| SR-3 | Bending, placing, spliang | | | | | |
| | Welding, Spacing | | | | | |
| | covers etc., | Test Table | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Quality Control Register Part-1
Section - 4: Steel Reinforcements**

Quantities of Items, Quality control tests, Frequencies and Total Number of Tests Required

| Sl. No. | Description of item of Work | Unit | Quantity | Test No. | Name of Test | Frequency of Tests | No. of tests reqd |
|---------|-----------------------------|------|----------|----------|---|--|-------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | STEEL REINFORCEMENT | | | | | | |
| | | | | | <u>Tests Prior to construction</u> | | |
| | | | | SR-1 | Grade, Percentage elongation and ultimate tensile stg of steel | 3 samples from each supplier | |
| | | | | SR-2 | Pitch of the ribs, nominal diameter, Protection & Storage of Steel | Random Checking and Regularly | |
| | | | | | <u>Tests during construction</u> | | |
| | | | | SR-3 | Bending, Placing of reinforcement Splicing, Welding, Spacing, Covers etc. | Regularly and as and when work is taken up and before concreting | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Form SR-1

**Test for Steel Reinforcement
Test prior to construction**

Road / Section Details :

Date of testing :

| Sl. No. | Specimen No. | Grade of Steel | Percentage of elongation | Ultimate Tensile Stg of Steel | Whether the values are acceptable Y/N | If No. Date of NCR and Page No. of Q/C, Reg. Part II |
|---------|--------------|----------------|--------------------------|-------------------------------|---------------------------------------|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form SR-2

Road / Section Details :

Date of testing :

| Sl. No. | Pitch of the ribs | Nominal dia of Steel | Protection & Storage of Steel is acceptable Y/N | Whether the value are within the permissible limits Y/N | If No. Date of NCR and Page No. of Q/C, Reg. Part II |
|---------|-------------------|----------------------|---|---|--|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form SR-2

Road / Section Details :

Date of testing :

| Sl. No. | Bending and Placing is acceptable Y/N | Splicing Welding and Spacing is acceptable Y/N | Cover to Reinforcement is acceptable Y/N | If No. Date of NCR and Page No. of Q/C, Reg. Part II |
|---------|---------------------------------------|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Quality Control Register Part-1

Section 5: Plastering & Flooring

Abstract of tests Conducted

| Test No. | Name of Test | Test No. | Date of Test Result | Qualified Not Qualified If No. Page No. | And Date of NCR Page No. & Date on | Which Test Qualified |
|----------|--|----------|---------------------|---|------------------------------------|----------------------|
| | | | | | | |
| 1 | Compressive Stg. Of Cement Mortor for Plastreing | | | | | |
| | | Test 1 | | | | |
| | | Test 2 | | | | |
| | | Test 3 | | | | |
| | | Test 4 | | | | |
| | | | | | | |
| | | | | | | |
| 2 | Compressive Stg. Of Cement Mortor for flooring | Test 1 | | | | |
| | | Test 2 | | | | |
| | | Test 3 | | | | |
| | | Test 4 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 3 | Flexural Strength of Glazed, Ceramic, Vitrified Tiles, Granite, Marble for floor | Test 1 | | | | |
| | | Test 2 | | | | |
| | | Test 3 | | | | |
| | | Test 4 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Quality Control Register Part-1

Section 5: Plastering & Flooring

Compressive Stg. Of Cement Mortor for Plastreing

Test 1

Road / Section details :

Date of testing :

Sample No.

| Sl. No. | Specimen No. | Plan area of Cube mould A (mm ²) | Load at failure w (N) | Compressive Stg=W/A N/mm ² |
|---------|--------------|--|-----------------------|---------------------------------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-4

Compressive Stg. Of Cement Mortor for Plastreing

Test 2

Road / Section details :

Date of testing :

Sample No.

| Sl. No. | Specimen No. | Plan area of Cube mould A (mm ²) | Load at failure w (N) | Compressive Stg=W/A N/mm ² |
|---------|--------------|--|-----------------------|---------------------------------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Form BR-4

Compressive Stg. Of Cement Mortor for Plastreing

Test 3

Road / Section details :

Date of testing :

Sample No.

| Sl. No. | Specimen No. | Plan area of Cube mould A (mm ²) | Load at failure w (N) | Compressive Stg=W/A N/mm ² |
|---------|--------------|--|-----------------------|---------------------------------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |

Checked by : AEE/EE

Tested by : AE/JE

5. Flooring

Flexural Strength of Glazed, Ceramic, Vitrified Tiles, Granite, Marble for floor

| Sl. No. | Length of bed (mm) | Width of bed face (mm) | Area of bed face (mm ²) | Average area of bed face (mm ²) | Max load at failure P N _n | Flexural strength <u>Max load</u> area of bed face (N/mm) | Whether comp. stg is within the permissible limit? Y/N | Whether comp.stg is within the permissible limit? Y/N | If no, date of Issue of NCR and page no. of Reg. Part II | Tested by - Signature of AE/JE |
|---------|--------------------|------------------------|-------------------------------------|---|--------------------------------------|---|--|---|--|--------------------------------|
| Test 1 | Date: | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Test 2 | Date: | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Test 3 | Date: | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Checked by : AEE/EE

Compressive Stg. Of Cement Mortor for flooring

Test 1

Road / Section details :

Date of testing :

Sample No.

| Sl. No. | Test Nos | Specimen No. | Plan area of Cube mould A (mm ²) | Load at failure w (N) | Compressive Stg=W/A N/mm ² |
|---------|-----------|--------------|--|-----------------------|---------------------------------------|
| 1. | Test No.1 | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 1. | Test No.2 | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 1. | Test No.3 | | | | |
| 2. | | | | | |
| 3. | | | | | |
| | | | | | |

Checked by : AEE/EE

Tested by : AE/JE

Quality Control Register Part-1

Section 6: Water supply and Sanitation

For Water supply and Sanitation works Test during construction

Paste the Report

Checked by : AEE/EE

Tested by : AE/JE

Section - 8: Finishing work

**(a) For Painting works
Test during construction**

Paste the Report

Checked by : AEE/EE

Tested by : AE/JE

**(b) For Joineries(Wooden/Aluminium/Steel) works
Test during construction**

Paste the Report

Checked by : AEE/EE

Tested by : AE/JE

**(c) For Painting(External/Internal) works
Test during construction**

Paste the Report

Checked by : AEE/EE

Tested by : AE/JE