

***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 2
For Building & Road Works

Record of Abstract of Tests & Non Conformance Reports

District:

Program 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

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All these specifications and tables have been drawn by referring IRC codes, Building codes, KRRDA norms and IS codes, compiled and rearranged by

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K. Abdul Raheem, AEE,

Quality Control Cell,

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED

Quality Control Register Part - 2 for Roads and Building
Record of Abstract of Tests & Non Conformance Reports
Fly Sheet

Name of Project

District:

Taluk:

Name of Work	:
Technically Sanctioned Date & Amount	:
Adm. Approval Date & Amount	:
Date of Commencement of Work	:
Stipulated Date of Completion	:
(a) As per Agreement	:
(b) As Revised & Agreed	:
Laboratory Incharge (Name)	:
Name of Site Engineer	:
	:
This Register	:

Instructions for Maintaining Quality Control Registers

The Quality Control Registers for having conducted required number of quality tests as per KRIDL manual for buildings and Rural roads manual, Special Publication 20, Indian Roads Congress, New Delhi 2002 Para 10.11 provides for recording of the Data in the prescribed forms, this register will be maintain for each work. **The quality control register will be maintained in two parts.** The first part will be Quality Control Register - Record of Tests and the **Second part** will be the **Record of Abstract of Tests and Non-Conformance Reports.**

A Register Part-I: The first part of the register is the register of all Quality Control Tests conducted by the person who is responsible for the basic Quality Control Testing. The Quality Control Register will be maintained by concerned site Engineer for every work. **This register will always be available at the work site.** The Register will be issued to the Site Engineer of the Basic Quality Control Testing of work not below the rank of Junior Engineer.

This Register will always be available at the work site. If some tests are required to be conducted in the laboratory which is situated away from the work, the prescribed format of the test conducted will be duly fill up on a separate sheet and this sheet will be pasted on the space prescribed for that test but the register will not be taken away from the site in any case.

This Register contains forms for tests sufficient to accommodate quantities given in Appendix 12.2 of the Rural Roads Manual for a length of Road up to 3 km. and for buildings as per guidelines. If the quantity(ies) or the item(s) in the work are more, additional forms required as per the prescribed frequency may be added at the end of the Register and the corresponding entries should be done in the abstract. In case the quantity(ies) or the item(s) in the work are less, the forms may be left blank and the corresponding note may be recorded in the abstract. If the length of the Road is more than 3 km, additional Register(s) should be maintained.

The first part of the Register will has following three Sections for roads:

Section 1: Earthwork

Section 2: Granular construction

Section 3: Bituminous construction

Or

The first part of the Register will has following three Sections for Buildings:

Section 1: Foundation, basement and plinth as per quality control guidelines for building.

Section 2: Super structure and roofs and all structural members as per quality control guidelines for building.

Section 3: Finishing works as per quality control guidelines for building.

b) Register Part-II: The second part of the register is the record of abstract of the tests conducted and Non Conformance reports. It will be maintained by the site in charge officer not below the rank of **Assistant Executive Engineer**.

The QC Register will be issued in the same manner as the Measurement Book is issued to the work. Every register should be page numbered and no page should be removed. The register of issue of the Quality Control Register will be maintained by the head of the PIU. The filling of tests formats of Part 1 and Part 2 shall be as per the guidelines of Quality Control Handbook.

b. The Second Part of the Register is the Record of abstract of the Tests conducted and Non conformance reports; therefore, will be maintained by the site in charge officer not below the rank of Assistant Engineer.

If the test results do not confirm to the prescribed limits, a Nonconformance Report (NCR) in the Format Prescribed in this Register will be issued to the Site Engineer.

2. The Quality Control (QC) Register will be issued in the same manner as the Measurement Book is issued to the work. Every register should be page numbered and no page should be removed. The Register of issue of the Quality Control Register will be maintained by the Head of the PIU i.e. The Assistant Executive Engineer.

3. In case of Hill Roads, where the work of formation cutting may be executed, all the tests shown in the Earthwork Section may not be required but the tests for CBR and Compaction will be required in such cases also, the formats will be left blank in such cases.

4. How to Fill up Register Part 1:

a. Filling up the Test Format- Take sample as per specifications and complete the basic entries of the Register like Sample Number, Reference of Road/Section from where the

sample has been taken etc. Subject the sample for testing and enter the Date of Testing and other relevant details at the prescribed places.

i. Enter the test Results at specified places and compare with the results with the prescribed limits. If the test results conform to the prescribed limits, the corresponding entry should be done and the work should be allowed to continue but if the results of the tests don't conform to the prescribed limits, the work should not be allowed to be continued and a Non Conformance Report (NCR) should be issued by the officer in-charge of the work.

ii. The compliance of the instructions given in the NCR should be ensured and again the test should be repeated. The work should be allowed to continue only after the Test results confirm to the prescribed limits.

b. Filling up the Format of the Abstract of Tests Conducted –

- i. Column 1 to 5 are self explanatory.
- ii. The reference of the page number of the Part two of the Register on which the office copy of the Non Conformance Report (NCR) is preserved should be entered along with the Date of issue of the NCR in the column number 6 of the abstract.
- iii. The Date of compliance reported by the Site Engineer should be entered in this column.
- iv. The reference of the page number on which the repeat test (which qualifies) record is maintained should be given in this column.
- v. The basic abstract of the Tests conducted will be maintained in the Part one of the Register but the copy of the abstract will also be maintained in Part two of the Register.

5. How to Fill up Register Part 2 Record of abstract of tests and Non Conformance Reports:

a. Filling up the Abstract of Tests Format - Basic abstracts of the tests conducted will be maintained in the First Part of the register but the same abstract will also be maintained in Part two and it will be the Responsibility of officer in charge to update this abstract once in every week (Generally on every Saturday of the Week).

b. Issuance of Non Conformance Reports - The Register contains one perforated copy of the NCR and one office copy, as soon as the incidence of non conformance of any test occurs, it will be the responsibility of the person responsible for the basic Quality Control Testing to inform to the officer in charge of the work. The officer in charge of the work will immediately issue a Non Conformance Report to the Site Engineer and the office copy will be retained in this Register. Thereafter, the Site Engineer needs to rectify the deficiencies and return the NCR after due compliance for approval/acceptance of the PIU.

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 1 Earth Work

Quality Control Register Part 2
Record of Abstract of Tests and Non Conformance Reports:
Section-1 Earthwork for Roads and Building
Abstract of tests Conducted

Test No.	Name of Test	Test No.	Date of Test	Result, Qualified	If No , Page No and Date of	Page No & Date on which
1	2	3	4	5	6	8
Earth work For Roads and Building						
EW	Detailed SBC & Classification of Soil for Foundation	Test 1				
		Test 2				
		Test 3				
		Test 4				
Earth work For Roads and Building						
EW-1	Soil gradation	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
		Test 9				
EW-2	Atterberg limits	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
		Test 9				
EW-3	Natural moisture content	Test Table				

EW-4	Proctor density	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
		Test 9				
EW-5	CBR	Test 1				
		Test 2				
EW-(A)	Swelling Index	Test 1				
EW-6	Moisture Content at the time of Compaction	Test Table				
EW-7	Thickness	Test Table				
EW-8	Field density	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
ALS-1	Horizontal alignment (Tests as Required)	Test Table				
ALS-2	Surface level(Tests as Required)	Test Table				
ALS-3	Surface regularity(Tests as Required)	Test Table				

Quality Control Register Part-2
Section-1 : Earth Work for Roads

Quantities of Item, Frequencies of Tests and 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
	Earthwork: Embankment, Sub grade & Shoulders			EW-1	Soil gradation	1 test per 4000 m ³	
				EW-2	Atterberg limits	1 test per 4000 m ³	
				EW-3	Natural Moisture Content	1 test per 500 m ³	
				EW-4	Proctor density	1 test per 5000 m ³	
				EW-5	CBR	1 test per 5000 m ³	
				EW-(A)	Swelling Index Test	In case of Expansive Soils	
				EW-6	Moisture content at the time of Compaction	1 test per 250m ³ / 4 tests per day	
				EW-7	Thickness	Regularly	
				EW-8	Field density	1 test per 2000 m ² (5 to 6 measurement)	
				ALS-1	Horizontal alignment(Tests Required)	Random check	
				ALS-2	Surface level(Tests as Required)	Surface level(Tests as Required)	
				ALS-3	Surface regularity(Tests as Required)	Surface regularity (Tests as Required)	

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer

.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer

.....

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 2 Concrete for Structures

Quality Control Register Part-2
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 mortar cubes	Test 1				
CC-4	Crushing stg. Of CA	Test 1				
GB-1	Flakiness 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. Strength 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-2

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 tones	
				CC-2	Soundness of cement	One test for 2000 bags or 10 tones	
				CC-3	Compressive Strength of Mortar 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 Strength of CC cubes & its Review.	Min 6 cubes per day	
				CC-15	Form Work, Construction joints, and Surface finish,	Daily and throughout 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	

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer

.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 3 Brick and Stone Masonry

Quality Control Register Part-2
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 construction</u>						
BR-1	Color, Shape, Texture, efflorescence, Dressing of stones and dimensional					
	Checks of bricks	Test Table				
BR-2	Water absorption	Test Table				
BR-3	Compressive Strength of bricks	Test Table				
CC-1	Setting 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	Consistency, Water retentivity, Mix Proportions and consumption of mortar test	Test Table				
CC-8	Test on water	Test Table				
BR-4	Compressive Stg. Of Cement mortar	Test Table				
<u>Test during construction</u>						
BR-6	Consistency, Water retentivity, Mix proportions and	Test Table				
BR-7	Height, bond, plumbness	Test Table				
	Staggering, Thickness of joints and plaster, location, size and spacing of weep holes finishing and pointing					
BR-4	Compressive Stg of mortar	Test 1				
		Test 2				
		Test 3				

Quality Control Register Part-2

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	Color, 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 weep holes, 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	

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)
2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)
2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)
2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 4 Steel Reinforcements

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 5: Plastering & Flooring

Quality Control Register Part-2

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 Mortar for Plastering					
		Test 1				
		Test 2				
		Test 3				
		Test 4				
2	Compressive Stg. Of Cement Mortar 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				

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 6: Water supply and Sanitation

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 7: Electrification work

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

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2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
.....

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 8: Finishing work

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

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Date

(Signature)
Assistant Executive Engineer
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Non-Conformance Report

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3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

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(For Site Engineer)

(For PIU)

Date: _____

Date: _____

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Date

(Signature)
Assistant Executive Engineer
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Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

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Date

(Signature)
Assistant Executive Engineer
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KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 9 Granular Construction

Quality Control Register Part 2
Record of Tests Section - 9 Granular Construction
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
Drainage Layer						
SB-1	Gradation Drainage Layer	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
		Test 9				
		Test 10				
		Test 11				
		Test 12				
Granular Sub Base						
SB-1	Gradation G S B	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
		Test 7				
		Test 8				
		Test 9				
		Test 10				
		Test 11				
		Test 12				
		Test 13				
		Test 14				
		Test 15				
		Test 16				
SB-2	Atterberg limits G S B	Test 1				
		Test 2				
		Test 3				

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	8
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
		Test 9				
		Test 10				
		Test 11				
		Test 12				
		Test 13				
		Test 14				
		Test 15				
		Test 16				
SB-3	Moisture content	Test Table				
SB-4	Density of Compacted Layer					
SB-8	CBR Test G S B					
		Test 2				
SB-5	Thickness of Layer G S B	Test Table				
Base Course Water Bond Macadam						
GB-1	Aggregate Impact Value Grading-2	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
GB-2	Gradation WBM Grading-2	Test 1				
		Test 2				
		Test 3				
		Test 4				

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	8
		Test 5				
		Test 6				
		Test 7				
		Test 8				
		Test 9				
		Test 10				
		Test 11				
		Test 12				
		Test 13				
		Test 14				
GB 3	Flakiness Index WBM Grading-2	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
GB-4	Atterberg Limits Binding Material Grading 2	Test 1				
GB-6	Thickness of Layer	Test Table				
GB-1	Aggregate Impact Value Grading-3	Test 1				
		Test 2				
		Test 3				
		Test 4				
GB-2	Gradation WBM Grading-3	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
GB 3	Flakiness Index WBM Grading-3	Test 1				
		Test 2				
		Test 3				
		Test 4				

Quality Control Register - Part 2
Section - 9 Granular Construction

Quantities of Items, Frequencies of Tests and 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
1.	Drainage Layer			SB-1	Gradation Drainage Layer	Two Tests per 500 Cum. Or per day	
2.	Granular Sub Base			SB-1	Gradation G S B	Two Tests per 500 Cum. Or per day	
				SB-2	Atterberg limits S S B	Two Tests per 500 Cum. Or per day	
				SB-3	Moisture Content at the time of Compaction	Two Tests per 500 Cum. Or per day	
				SB-4	Density of Compacted Layer	One Set of Tests per 200 Sqm.	
				SB-8	CBR Test G S B	1 Test for 5000 Cum.	
				SB-5	Thickness of Layer G S B	Regularly	
				ALS-2	Surface level	Suitable grid	
				ALS-3	Surface regularity	Along two paralleled lines	
3.	Base Course Water Bond Macadam Grade 2			GB-1	Aggregate Impact Value Grading-2	One Test per 250 Cum. Or Source.	
				GB-2	Gradation Aggregate and Screening Aggregate and Screening Grading-2	Two Tests per 500 Cum. Per day	
				GB-3	Flakiness Index WBM Grading-2	One Test per 250 Cum. Or per Day	
				GB-4	Atterberg Limits Binding Material Grading 2	Two Tests per 500 Cum. Or per day	
4.	Base Course Water Bond Macadam			GB-1	Aggregate Impact Value Grading-3	One Test per 250 Cum. Or Source	
				GB-2	Gradation WBM Grading-3	Two Tests per 500 Cum. Per day.	
				GB-3	Flakiness Index WBM Grading-3	One Test per 250 Cum. Or per Day.	

Section - 9 Granular Construction
Quantities of Items, Frequencies of Tests and 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
4.	Base Course Water Bond Macadam Grade 3			GB-4	Aterberg Limits Binding Material Grading	Two Tests per 500 Cum. Or per day	
				GB-5	Water Absorption of Aggregate	1 Test per Source	
				GB-6	Thickness of Layer for all Layers	Regularly	
				ALS-2	Surface level for all Layers	Suitable grid	
				ALS-3	Surface regularly for all Layers	Along two paralleled lines	

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

2. Acceptance/Non-acceptance of Site Engineer’s remedial action by the Project Implementation Unit (PIU) (with reasons for non-acceptance)

Date

(Signature)
Assistant Executive Engineer
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Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
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Received by: _____

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(For Site Engineer)

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(Signature)
Assistant Executive Engineer
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Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
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Received by: _____

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(For Site Engineer)

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Date

(Signature)
Assistant Executive Engineer
.....

KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LIMITED



Quality Control Register-Part 2

Record of Abstract of Tests and Non Conformance Reports

Section - 10 Bituminous Construction

Quality Control Register Part 2
Record of Abstract of Tests & Non Conformance Reports:
Section - 10 Bituminous Construction
Abstract of tests Conducted

Test No.	Name of Test	Conducted Test No.	Date of Test	Result, Qualified (Yes/No)	If No , Page No and Date of NCR	Page No & Date on which Test
1	2	3	4	5	6	7
BL-1	Quality of bitumen	Test 1				
BL-1 (J)	Sieve Test for Bitumen Emulsions	Test 1				
BL-1 (K)	Stability to Mixing with Course Aggregates on Bitumen Emulsions	Test 1				
BL-1 (L)	Viscosity of Bitumen Emulsions by Standard Saybolt-Furol Viscometer	Test 1				
BL-1 (M)	Storage Stability Test on Bitumen Emulsions	Test 1				
BL-1 (N)	Particle Charge of Bitumen Emulsions	Test 1				
BL-1 (O)	Miscibility of Bitumen Emulsions with Water	Test 1				
BL-1 (P)	Stability of Bitumen Emulsions with Cement	Test 1				
BL-3	Rate of spread of binder	Test 1				
BL-1	Quality of bitumen	Test 1				
		Test 2				
		Test 3				
BL-1(A)	Penetration	Test 1				
		Test 2				
		Test 3				
BL-1(B)	Ductility	Test 1				
		Test 2				
		Test 3				
BL-1(C)	Softening point	Test 1				
		Test 2				
		Test 3				
BL-1(D)	Specific gravity	Test 1				
		Test 2				
		Test 3				
BL-1(E)	Water content	Test 1				
		Test				
		Test 3				
BL-1(F)	Flash point	Test 1				

Test No.	Name of Test	Conducted Test No.	Date of Test	Result, Qualified (Yes/No)	If No , Page No and Date of NCR	Page No & Date on which Test Qualified
1	2	3	4	5	6	8
		Test 2				
		Test 3				
BL-1(G)	Viscosity	Test 1				
		Test 2				
		Test 3				
BL-1(H)	Loss on heating	Test 1				
		Test 2				
		Test 3				
BL-1(I)	Solubility (Trichloroethylene)	Test 1				
		Test 2				
		Test 3				
BL-1(Q)	Wax content	Test 1				
		Test 2				
		Test 3				
BL-2	Temperature of binder	Test 1				
		Test 2				
		Test 3				
BL-4	Aggregate Impact Value	Test 1				
		Test 2				
		Test 3				
BL-5	Flakiness Index	Test 1				
		Test 2				
BL-6	Stripping of Aggregate	Test 1				
BL-7	Water Absorption	Test 1				
BL-8	Grading of Aggregate	Test 1				
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
BL-10	Thickness	Test Table				
BL-13	Soundness	Test 1				
BL-14	Binder Content	Test 1				

Section - 10 Bituminous Construction
Quantities of Items, Frequencies of Tests and 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
1.	Printing Goat and tack Coat			Tests of Bitumen emulsions for Tack Coat/Priming Coat and other Bituminous Construction			
				BL-1	Quality of Binder		
				BL-1(J)	Sieve Test FOR Bitumen Emulsions	1 test per lot or 10 Tonne	
				BL-1(K)	Stability to Mixing with Course Aggregate on Bitumen Emulsions	1 test per lot or 10 Tonne	
				BL-1(L)	Viscosity of Bitumen Emulsions by Standard Saybolt-Furol Viscometer	1 Test per lot or 10 Tonne	
				BL-1(M)	Storage Stability Test on Bitumen Emulsions	1 Test per lot or 10 Tonne	
				BL-1(N)	Particle Charge of Bitumen Emulsions	1 Test per lot or 10 Tonne	
				BL-1(O)	Miscibility of Bitumen Emulsions with Water	1 Test per lot or 10 Tonne	
				BL-1(P)	Stability of Bitumen Emulsions with Cement	1 Test per lot or 10 Tonne	
				BL-3	Rate of Spread of Binder	2 tests per Day or per 1000 Sqm.	
2.	2 Coat Surface Dressing / Open Graded Premix Carpet with Seal Coat			Tests of Bitumen for open graded Pre Mix Carpet/Surface Dressing			
				BL-1	Quality of Bitumen	1 Test per lot or 10 Tonne	
				BL-1(A)	Ductility	1 Test per lot or 10 Tonne	
				BL-1(K)	Softening point	1 Test per lot or 10 Tonne	
				BL-1(L)	Specific gravity	1 Test per lot or 10 Tonne	
				BL-1(M)	Waters content	1 Test per lot or 10 Tonne	
				BL-1(N)	Flash point	1 Test per lot or 10 Tonne	

Section - 10 Bituminous Construction
Quantities of Items, Frequencies of Tests and 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	
				BL-1(G)	Viscosity	1 test per lot or 10 Tone		
				BL-1(H)	Loss on heating	1 test per lot or 10 Tone		
				BL-1(I)	Solubility(Trichloroethylene)	1 test per lot or 10 Tone		
				BL-1(Q)	Wax content	1 test per lot or 10 Tone		
				BL-2	Temperature of binder	Regularly		
				BL-4	Aggregate Impact Value	1 test per 250 cum. Per source		
				BL-5	Flakiness Index	1 test per 250 cum. Per day		
				BL-6	Stripping of Aggregate	1 Test for source		
				BL-7	Water Absomtion	1 Test for source		
				Tests of Bitumen Modified Bitumen for Open Graded Pre Mix Carpet				
				BL-8	Grading of Aggregate	1 Test per 50 cum. Or per day		
				BL-10	Thickness	Regularly		
				BL-13	Soundness	1 Test per Source		
				BL-14	Binder Content	2 Tests for 500m ³ or per day		
				BL-1(R)	Elastic Recovery	1 test per lot or 10 Tone		
				BL-1(S)	Separation Difference	1 test per lot or 10 Tone		
				Tests of Bitumen Modified Bitumen for Surface Dressing				
				BL-3	Rate of Spread of Binder	1 test per 1000 m ² or per day		
				BL-12	Rate of Spread of Aggregate	1 test per 1000 m ² or per day		

Non-Conformance Report

1. Name of Work/ Road:
2. Location
3. Description of Non-conformance
(Here describe the summary of the findings of those tests which outside the permissible/tolerance limits)

Received by: _____

Issued by: _____

(For Site Engineer)

(For PIU)

Date: _____

Date: _____

Compliance

1. Remedial action taken by the Site Engineer: (Indicate reference No. and date of Site Engineer’s letter. Also indicate action taken briefly)

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Date

(Signature)
Assistant Executive Engineer
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(Signature)
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