

Pradhan Mantri Gram Sadak Yojana

Quality Control Register Part 1

Record of Tests

State: District: Programme Implementation Unit:

Package Number:Name of Work:Register From km.Total Volumes of this Register:This Volume Number:

Prescribed By:

National Rural Roads Development Agency (An Agency of the Ministry of Rural Development) Government of India, New Delhi

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Quality Control Register Part 1

Record of Tests

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Quality Control Register Part 1

Record of Tests

Fly Sheet

State:

District:

Block:

Package Number:

Name of Road	:
Length (km)	:
Contract Amount (Rs.)	:
Construction Contractor (Name & Address)	:
Date of Commencement of Work	
Stipulated Date of Completion	
(a) As per Agreement(b) As Revised & Agreed	:
Project Implementation Unit (Address)	:
Laboratory Incharge (Name)	:
This Register	: From km to km

Instructions for Maintaining Quality Control Registers

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; therefore, this Register will be maintained for each Road. The guidelines for maintenance of this Register are as follows:

- 1. 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 Quality Control Tests and Non Conformance Report Register.
 - **a.** 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; therefore, the first Part of the Register will be maintained by the person who is responsible for the basic Quality Control tests. If there is a provision of Quality Control by contractor in the Tender Document, the Quality Control Register will be issued to the contractor for every Road Work but if the responsibility of the basic Quality Control Tests is with the Department, the Register will be issued to the in charge officer of the basic Quality Control Testing of work not below the rank of Junior Engineer/sub 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. If the quantities (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 quantities (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 then 3 km, additional Register(s) should be maintained. The first part of the Register will has following three Sections:

Section 1: Earthwork

Section 2: Granular construction

Section 3: Bituminous construction

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 Contractor.

- 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.
- **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. Columns 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 contractor 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 incharge 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 contractor and the office copy will be retained in this Register.

Thereafter, the Contractor needs to rectify the deficiencies and return the NCR after due compliance for approval/acceptance of the PIU.

Pradhan Mantri Gram Sadak Yojana

<u>Quality Control Register Part 1</u> <u>Record of Tests</u>

Section -1 Earth Work

Test No.	Name of Test	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
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 7	Fable			
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				
0		Test 2				
EW-(A)	Swelling Index	Test 1				
EW-6	Moisture Content at the time of Compaction	Test				
EW-7	Thickness	Test 7	ſable			
EW-8	Field density	Test 1				

Quality Control Register Part 1 Record of Tests :Section-1 Earthwork <u>Abstract of tests Conducted</u>

Test No.	Name of Test	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	7
		Test 2				
		Test 3				
		Test 4				
		Test 5				
		Test 6				
		Test 7				
		Test 8				
ALS-1	Horizontal alignment (Tests as Required)	Test 7	fable			
ALS-2	Surface level(Tests as Required)	Test T	Table			
ALS-3	Surface regularity(Tests as Required)	Test 1	ſable			

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 1

Road / Section Details

Weight of soil sample taken:

Date of Testing :

(gm)

Sample No. Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 µ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 2

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 µ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

m No. EW-1

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 3

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 µ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 4

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 µ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

Form No. EW-1

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 5

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 µ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 6

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 µ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 7

Road / Section Details

Date of Testing :

Weight of soil sample taken:

(gm)

Sample No. Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 μ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

Form No. EW-1

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 8

Road / Section Details

Date of Testing :

Sample No.

.

Weight of soil sample taken:

(gm)

Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 µ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 9

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limits (Percentage of Wt. Passing/ Retained)
40 mm					
25 mm					
20 mm					
10 mm					
4.75 mm					

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)
2.36 mm				
1.18 mm				
600 µ				
425 μ				
75 μ				

Summary of Results

Clay / silt (-75 micron) percent	
Sand (-4.75 mm + 75 micron) percent	
Gravel (-40 mm + 4.75 mm) percent	

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Atterberg Limits Test

Test 1

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

Layer Value Permissible Value

	Less than 70 per cent

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL)
$$? \frac{mc_1 ? mc_2 ? mc_3}{3} ? _$$
 per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
If Results don't conform to	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:

Atterberg Limits Test

Test 2

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

Layer	Value	Permissible Value
		Less than 70 per cent

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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:

Atterberg Limits Test

Test 3

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
I iquid Limit (II) = per cent							

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Value
		Less than 70 per cent

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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:

Atterberg Limits Test

Test 4

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

Layer	Value	Permissible Value
		Less than 70 per cent

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL)
$$? \frac{mc_1? mc_2? mc_3}{3}?$$
 _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
If Results don't conform to	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:

Atterberg Limits Test

Test 5

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

Layer	Value	Permissible Value			
		Less than 70 per cent			

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL)
$$? \frac{mc_1? mc_2? mc_3}{3}?$$
 _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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:

Atterberg Limits Test

Test 6

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

Layer	Value	Permissible Value			
		Less than 70 per cent			

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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:

Atterberg Limits Test

Test 7

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

 Layer
 Value
 Permissible Value

 Less than 70 per cent
 Less than 70 per cent

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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:

Atterberg Limits Test

Test 8

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

Layer	Value	Permissible Value			
		Less than 70 per cent			

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Checked by:

Atterberg Limits Test

Test 9

Road/Section Details:

Date of Testing :

Type of soil :

Sample No.:

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

Layer	Value	Permissible Value		
		Less than 70 per cent		

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Checked by:
Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 1

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	_L				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)					
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.								
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Tested by:

Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 2

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	1				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)							
reference of the page No. o	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									

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Tested by:

Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 3

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	1				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)					
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:

Tested by:

Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 4

Road / Section Details:

Sample No. :

Weight of Dry Soil:

Date of Testing :

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	+				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)						
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									

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Tested by:

Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 5

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	_				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)
reference of the page No. o	the prescribed Limits, non con f this Register on which Non C ate of issue	1	5

Checked by:

Tested by:

Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 6

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	_				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)						
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									

Checked by:

Tested by:

Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 7

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	_				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)
reference of the page No. o	the prescribed Limits, non con f this Register on which Non C ate of issue	1	5

Checked by:

Tested by:

Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 8

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	_				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)						
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									

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Tested by:

Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983)

Test 9

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	_L				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
reference of the page No. o	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:

Tested by:

C. B. R. Test of Soil (For Sub Grade Soil Only) [IS: 2720 (Part-16)] Test 1

Sample No.:

Sample Details:

Date of Testing:

Date of Casting of Mould:

Capacity of Proving Ring:

Value of one divn. in:

kg.

Time of Penetration @1.25 mm/Min.	Pene- tration		ving I Readin		(kg/ O Val	d Inte (cm ²) ()ne div lue are Plunge	(A) x vn. ea of	I	°ected ntensi kg/cm	ty	Standard Load Intensity (kg/cm ²)	C.I	isoak Soake B.R. (Cx1(D	d (%)	Average C.B.R. (%)
			(A)			(B)			(C)		(D)		(E)		
Min. Sec.	(mm)	i	ii	iii	i	ii	iii	i	ii	iii	Std.	i	ii	ii i	
0-0	0.0														
0 - 24	0.5														
0 - 48	1.0														
1 – 12	1.5														
1 – 36	2.0														
2 - 0	2.5										70				
2 - 24	3.0														
3 - 12	4.0														
4-0	5.0										105				
6-0	7.5										134				
8 - 0	10.0										162				
10 – 0	12.5										183				

Av. C.B.R. at 2.5 mm penetration: (%)

Av. C.B.R. at 5.0 mm penetration: Av. Saturation Moisture Content: (%)

(%)

Av. Swelling:		(%)				
Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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						

Checked by:

Tested by:

Form No. EW-5(A)

Swelling Test of Soil Test 1

Sample No.:

Date of casting specimen:

Sample Details:

Date of Testing:

	Height of specimen	Dial gauge reading		L. C. of dial gauge	Total Swelling (C-B)xD	Swelling Index Ex100 A
Mould Nos.	(mm)	Initial	Final	(mm)	(mm)	(Percent)
	(A)	(B)	(C)	(D)	(E)	
i.						
ii.						
iii.						

Layer	Value	Permissible Limit Whether Confirms to Prescribed Limits (Yes							
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 D	ate of issue		Page No Date of issue						

Checked by:

Field Density of Soil (Sand replacement method)

Test 1

Road/Section Details:	Date of Testing :
Location of test point.:	Thickness of layer : mm

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii)	Volume of calibrating cylinder (V) in cc.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Detern	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand $(+ cylinder)$ before pouring (W_1) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
reference of the page No. o	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					

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 2

Road/Section Details:	Date of Testing :	
Location of test point .:	Thickness of layer :	mm

Observation Tables

(a)	Calibr	ation
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii)	Volume of calibrating cylinder (V) in cc.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Detern	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture content container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)	
reference of the page No. o	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			

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 3

Road/Section Details:	Date of Testing :		
Location of test point.:	Thickness of layer : mm		

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii)	Volume of calibrating cylinder (V) in cc.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand $(+ cylinder)$ before pouring (W_1) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)
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			

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 4

Road/Section Details:	Date of Testing :	
Location of test point .:	Thickness of layer :	mm

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii)	Volume of calibrating cylinder (V) in cc.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W_d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)
reference of the page No. o	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		

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 5

Road/Section Details:	Date of Testing :	
Location of test point .:	Thickness of layer :	mm

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii)	Volume of calibrating cylinder (V) in cc.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)	
reference of the page No. o	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			

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 6

Road/Section Details:	Date of Testing :	
Location of test point .:	Thickness of layer :	mm

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii)	Volume of calibrating cylinder (V) in cc.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)
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			

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:
Field Density of Soil (Sand replacement method)

Test 7

Road/Section Details:	Date of Testing :		
Location of test point.:	Thickness of layer : mm		

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii) Volume of calibrating cylinder (V) in cc.	
	(iii) Weight of sand $(+ \text{ cylinder})$ before pouring (W_1) in gm.	
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 8

Road/Section Details:	Date of Testing :	
Location of test point .:	Thickness of layer :	mm

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii) Volume of calibrating cylinder (V) in cc.	
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii) Weight of sand (+ cylinder) before pouring (W_1) in gm.	
	(iv) Weight of sand (+ cylinder) after pouring (W_4) in gm.	
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)	
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				

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 9

Road/Section Details:	Date of Testing :		
Location of test point.:	Thickness of layer : mm		

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii) Volume of calibrating cylinder (V) in cc.	
	(iii) Weight of sand (+ cylinder) before pouring (W_1) in gm.	
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand $(+ cylinder)$ before pouring (W_1) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)	
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				

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 10

Road/Section Details:	Date of Testing :	
Location of test point.:	Thickness of layer :	mm

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii) Volume of calibrating cylinder (V) in cc.	
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii) Weight of sand $(+ cylinder)$ before pouring (W_1) in gm.	
	(iv) Weight of sand $(+ cylinder)$ after pouring (W_4) in gm.	
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 11

Road/Section Details:	Date of Testing :	
Location of test point .:	Thickness of layer :	mm

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii) Volume of calibrating cylinder (V) in cc.	
	(iii) Weight of sand $(+ cylinder)$ before pouring (W_1) in gm.	
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii) Weight of sand (+ cylinder) before pouring (W_1) in gm.	
	(iv) Weight of sand $(+ cylinder)$ after pouring (W_4) in gm.	
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 12

Road/Section Details:	Date of Testing :	
Location of test point.:	Thickness of layer :	mm

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii) Volume of calibrating cylinder (V) in cc.	
	(iii) Weight of sand (+ cylinder) before pouring (W_1) in gm.	
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii) Weight of sand (+ cylinder) before pouring (W_1) in gm.	
	(iv) Weight of sand (+ cylinder) after pouring (W_4) in gm.	
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 13

Road/Section Details:	Date of Testing :	
Location of test point.:	Thickness of layer : mm	

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
	(ii)	Volume of calibrating cylinder (V) in cc.
	(iii) Weight of sand (+ cylinder) before pouring (W_1) in gm.	
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Field Density of Soil (Sand replacement method)

Test 14

Road/Section Details:	Date of Testing :	
Location of test point.:	Thickness of layer : mm	

Observation Tables

(a)	Calibr	ration
	(i)	Mean weight of sand in cone (of pouring cylinder) (W ₂) in gm.
(ii) Volume of calibrating cylinder (V) in cc.		Volume of calibrating cylinder (V) in cc.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Mean weight of sand (+cylinder) after pouring (W ₃) in gm.
	(v)	Weight of sand to fill calibrating cylinder. $(W_a = W_1 - W_2 - W_3)$ in gm.
	(vi)	Bulk density of sand $Y_s = (W_a/V) \text{ gm/cc}$
(b)	Deterr	nination of soil density
	(i)	Determination number
	(ii)	Weight of wet soil from hole (W _w) in gm.
	(iii)	Weight of sand (+ cylinder) before pouring (W ₁) in gm.
	(iv)	Weight of sand (+ cylinder) after pouring (W ₄) in gm.
	(v)	Weight of sand in hole, in gm. $W_b = (W_1 - W_4 - W_2)$
	(vi)	Bulk density $Y_b = (W_w/W_b) \times Y_s \text{ gm/cc}$
	(vii)	Moisture container number
	(viii)	Moisture content (W) percent
	(ix)	Weight of dry soil from the hole in gm. (W _d)
	(x)	Dry density $Y_d = (W_d/W_b) \times Y_s \text{ gm/cc}$

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

* Field density as per cent of Maximum Dry Density at OMC.

Checked by:

Horizontal Alignment Test

Form No. ASL-1

Surface Level Test

Form No. ASL-2

Surface Regularity Test

Form No. ASL-3

Pradhan Mantri Gram Sadak Yojana

Quality Control Register Part 1

<u>Record of Tests</u>

Section-2 Granular Construction

			act of tests	Result	If No ,	Page No &
Test No.	Name of Test	Test No.	Date of Test	Qualified/ Not Qualified	Page No and Date of NCR	Date on which Test Qualified
1	2	3	4	5	6	7
Draina	ge 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				
Granu	ar 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				

Quality Control Register Part 1 Record of Tests Section 2 Granular Construction <u>Abstract of tests Conducted</u>

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			1	
SB-4	Density of Compacted Layer					
SB-8	CBR Test G S B					
		Test 2				
SB-5	Thickness of Layer G S B					
Base C	ourse Water Bond Macae					
GB-1	Aggregate Impact Value Grading-2	Test 1				
		Test 2				
		Test 3			1	
		Test 4			1	
		Test 5			1	
		Test 6			1	
		Test 7			1	
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				
	6-	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				

Test No.	Name of Test	Conducted 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
GB-4	Atterberg Limits Binding Material Grading 3	Test 1				
GB-5	Water Absorption of Aggregate Grading 1 & 2	Test 1				
GB-6	Thickness of Layer	Test Table				

Tests for Drainage Layer

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 1

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

Instruction for Blending

Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 2

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

Instruction for Blending

Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 3

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving		We	eight of Soil Sample tal	ken:	(gm)
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

Instruction for Blending

Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 4

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

Instruction for Blending

Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 5

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving		We	Weight of Soil Sample taken:				
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained		

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 6

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving		We	(gm)		
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 7

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving		We	ight of Soil Sample tal	ken:	(gm)
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

Instruction for Blending

Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 8

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

Tested by:

Instruction for Blending

Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 9

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 10

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 11

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Drainage Layer

Sieve Analysis of Soil (IS:2720 (Part 4) -1985)

Test 12

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 1

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 2

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 3

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 4

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

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Tests for Granular Sub Base

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 5

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 6

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 7

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test 8

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 9

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 10

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 11

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 12

Road / Section Details

Date of Testing :

Sample No. Dry Sieving Weight of soil sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 13

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 14

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 15

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tests for Granular Sub Base Sieve Analysis (IS:2720 (Part 4) -1985)

Test 16

Road / Section Details

Date of Testing :

Sample No.

Weight of soil sample taken:

(gm)

Dry Sieving					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing	Prescribed Limit % Wt. Passing/ Retained

Wet Sieving

Weight of Soil Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Prescribed Limit % Wt. Passing/ Retained

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Granular Sub Base

Atterberg Limits Test

Road/Section Details:

Test 1 Date of Testing :

Sample No.:

Sample Details :

Type of soil :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	I jauid I	imit (I	() —	nor	cont		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
reference of the page No. o	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						

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc ₁)	(mc ₂)	(mc ₃)	

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued by the PIU. The			
reference of the page No. of this Register on which Non Conformance Reports copy preserved.						
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Test for Granular Sub Base

Atterberg Limits Test

Test 2

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

-	4	3	4	5	6	Remarks
			Liquid Limit. (LL) –			

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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						

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc ₁)	(mc ₂)	(mc ₃)	

$\label{eq:Plastic Limit (PL) } \mbox{Plastic Limit (PL) } ? \mbox{$\frac{mc_1\,?\,mc_2\,?\,mc_3}{3}$? $ ____ per cent }$

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
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 D	Page No Date of issue						

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Test for Granular Sub Base

Atterberg Limits Test

Test 3

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Number of blows	Liquid I	imit (L	 _	por	cont		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc ₂)	(mc ₃)	

 $\label{eq:Plastic Limit (PL) } \text{Plastic Limit (PL) } ? \frac{\text{mc}_1 \, ? \, \text{mc}_2 \, ? \, \text{mc}_3 }{3} \, ? \, _ \, _ \, \text{per cent}$

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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						

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Test for Granular Sub Base

Atterberg Limits Test

Test 4

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	auid Limit (LL) -		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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						

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc ₂)	(mc ₃)	

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Test for Granular Sub Base

Atterberg Limits Test

Test 5

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	Liquid I	imit (I]	()		aant		· · · · · · · · · · · · · · · · · · ·

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc ₂)	(mc ₃)	

 $\label{eq:Plastic Limit (PL) } \text{Plastic Limit (PL) } ? \frac{\text{mc}_1 \, ? \, \text{mc}_2 \, ? \, \text{mc}_3 }{3} \, ? \, _ \, _ \, \text{per cent}$

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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 D	Page No Date of issue					

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Test for Granular Sub Base

Atterberg Limits Test

Test 6

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	Liquid I	insit (T]			aant		1

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc ₃)	

 $\label{eq:Plastic Limit (PL) } \text{Plastic Limit (PL) } ? \frac{\text{mc}_1 \, ? \, \text{mc}_2 \, ? \, \text{mc}_3 }{3} \, ? \, _ \, _ \, \text{per cent}$

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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.					
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Test for Granular Sub Base

Atterberg Limits Test

Test 7

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	Liquid I	1	1		aamt		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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.					
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Determination of Plastic Limit (PL)				
	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc ₁)	(mc ₂)	(mc ₃)	

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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.					
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Test for Granular Sub Base

Atterberg Limits Test

Test 8

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

	Elquid Ellini (EE)	Per com					
Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
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							

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc ₂)	(mc ₃)	

 $\label{eq:Plastic Limit (PL) } \text{Plastic Limit (PL) } ? \ \frac{\text{mc}_1 \, ? \, \text{mc}_2 \, ? \, \text{mc}_3 }{3} \; ? \ _ \ _ \ \texttt{per cent}$

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Test for Granular Sub Base

Atterberg Limits Test

Test 9

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

	(r ··· ····				
Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc ₃)	

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Atterberg Limits Test

Test 10

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	Liquid I	imit (II) _	nor	cont		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc ₃)	

Plastic Limit (PL) $? \frac{mc_1 ? mc_2 ? mc_3}{3} ? _$ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Test for Granular Sub Base

Atterberg Limits Test

Test 11

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	I janid I	imit (II) -	nor	cont		•

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Value
		Less than 70 per cent

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ? $\frac{mc_1 ? mc_2 ? mc_3}{3}$? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Value
		Less than 40 per cent

Checked by:

Test for Granular Sub Base

Atterberg Limits Test

Test 12

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	Liquid I	1 (T T	()		aamt		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

Determination of Plastic Limit (PL)				
	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc ₃)	

Plastic Limit (PL) ? $\frac{mc_1 ? mc_2 ? mc_3}{3}$? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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						

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Test for Granular Sub Base

Atterberg Limits Test

Test 13

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	Liquid Limit (LL) = per cent						

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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 D	ate of issue		-		

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc ₃)	

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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.					
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Test for Granular Sub Base

Atterberg Limits Test

Test 14

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	Liquid I	inait (II	()		aant		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

Determination of Plastic Limit (PL)					
	1	2	3	Remarks	
Container Number					
Weight of container + wet soil					
Weight of container + dry soil					
Loss of Moisture					
Weight of container					
Weight of dry soil					
Moisture content %					
	(mc ₁)	(mc ₂)	(mc ₃)		

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

	Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
ſ	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					

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Test for Granular Sub Base

Atterberg Limits Test

Test 15

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
	T invalid T	1	r)		· · · · ·		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

Determination of Plastic Limit (PL)					
	1	2	3	Remarks	
Container Number					
Weight of container + wet soil					
Weight of container + dry soil					
Loss of Moisture					
Weight of container					
Weight of dry soil					
Moisture content %					
	(mc ₁)	(mc ₂)	(mc ₃)		

 $\label{eq:Plastic Limit (PL) } \text{Plastic Limit (PL) } ? \frac{\text{mc}_1 \, ? \, \text{mc}_2 \, ? \, \text{mc}_3 }{3} \; ? \; _ \; _ \; \text{per cent}$

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

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Test for Granular Sub Base

Atterberg Limits Test

Test 16

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Number of blows	Liquid I	imit (I]			aant		

Liquid Limit (LL) = ----- per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

Determination of Plastic Limit (PL)

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc ₂)	(mc ₃)	

 $\label{eq:Plastic Limit (PL) } \text{Plastic Limit (PL) } ? \frac{\text{mc}_1 \, ? \, \text{mc}_2 \, ? \, \text{mc}_3 }{3} \, ? \, _ \, _ \, \text{per cent}$

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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:

Test for Granular Sub Base Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983) Test 1

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	+				1	Moisture c	ontent det	ermination	n		
S. No.	Weight of mould - compacted soil (gms) W ₂	Weight of wet soil (gms) W2 - W1	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued by the PIU. The				
reference of the page No. of this Register on which Non Conformance Reports copy preserved.							
Page No D	ate of issue						

Checked by:

Tested by:

Wet density of compacted soil
$$Y_m$$
? $\frac{W_2?W_1}{V_m}$ gm/cc
Where
 W_2 – Weight of mould + soil (gm)
 W_1 – Weight of mould (gm)
 V_m – Volume of mould (cc)
Dry density of compacted soil Y_d ? $\frac{100}{100?W} \times Y_m$

Test for Granular Sub Base Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983) Test 2

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	1				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)						
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued by the PIU. The						
reference of the page No. of this Register on which Non Conformance Reports copy preserved.									
Page No D	Page No Date of issue								

Checked by:

Tested by:

Wet density of compacted soil
$$Y_m$$
 ? $\frac{W_2$? $W_1}{V_m}$ gm/cc

Where

 $W_2 - W_1 - V_m -$ Weight of mould + soil (gm) Weight of mould (gm) Volume of mould (cc)

Dry density of compacted soil Y_d ? $\frac{100}{100$? W X Y_m

Test for Granular Sub Base Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983) Test 3

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	+				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)					
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued 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:

Tested by:

Wet density of compacted soil
$$Y_m$$
 ? $\frac{W_2$? $W_1}{V_m}$ gm/cc

Where

 $W_2 - W_1 - V_m -$ Weight of mould + soil (gm) Weight of mould (gm) Volume of mould (cc)

Dry density of compacted soil Y_d ? $\frac{100}{100$? W x Y_m

Test for Granular Sub Base Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983) Test 4

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	+				Moisture content determination						
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)
1.											
2.											
3.											
4.											
5.											
6.											

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)						
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued 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:

Tested by:

Wet density of compacted soil
$$Y_m$$
 ? $\frac{W_2$? $W_1}{V_m}$ gm/cc

Where

Dry density of compacted soil Y_d ? $\frac{100}{100$? W X Y_m

Where $\mathbf{W} = \text{moisture content}$

Test for Granular Sub Base Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983) Test 5

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	+				Moisture content determination							
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)	
1.												
2.												
3.												
4.												
5.												
6.												

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)						
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued by the PIU. The						
reference of the page No. of this Register on which Non Conformance Reports copy preserved.									
Page No D	Page No Date of issue								

Checked by:

Tested by:

Wet density of compacted soil
$$Y_m$$
 ? $\frac{W_2$? $W_1}{V_m}$ gm/cc

Where

Dry density of compacted soil $\ Y_d \ ? \ \frac{100}{100 \ ? \ W} \ x \ Y_m$

Test for Granular Sub Base Data Sheet for Compaction Test of Soil (IS:2720 (Part 7) -1983) Test 6

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Dry Soil:

Description of sample	
Type of test	Standard Proctor
Weight of mould W ₁ (gm)	
Volume of mould V _m (cc)	
Per cent retained on 20 mm IS sieve	

	+				Moisture content determination							
S. No.	Weight of mould + compacted soil (gms) W ₂	Weight of wet soil (gms) W ₂ - W ₁	Wet density (gm/cc)	Container No.	Weight of container (gms)	Weight of container + wet soil (gms)	Weight of container + dry soil (gms)	Weight of water (Ww) (gms)	Weight of Dry soil (Ws) (gms)	Moisture content (%) (W)	Dry density (gm/cc)	
1.												
2.												
3.												
4.												
5.												
6.												

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)						
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued 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:

Tested by:

Wet density of compacted soil
$$Y_m$$
 ? $\frac{W_2$? $W_1}{V_m}$ gm/cc Where

Dry density of compacted soil Y_d ? $\frac{100}{100$? W x Y_m

Test for Granular Sub Base

C. B. R. Test of Soil [IS: 2720 (Part-16)]

Test 1

Sample No.:

Sample Details:

Date of Testing:

Capacity of Proving Ring:

Date of Casting of Mould:

Value of one divn. in:

kg.

Time of Penetration @1.25 mm/Min.	Pene- tration		ving I Readin		One divn. Value area of Plunger		(A) x Corrected Load vn. Intensity rea of (kg/cm ²)		g/cm ²) (A) x One divn. alue area of Plunger		Intensity		Standard Load C Intensity (kg/cm ²)		isoak Soake B.R. (Cx1(D	d (%)	Average C.B.R. (%)
			(A)			(B)			(C)		(D)		(E)				
Min. Sec.	(mm)	i	ii	iii	i	ii	iii	i	ii	iii	Std.	i	ii	ii i			
0-0	0.0																
0-24	0.5																
0 - 48	1.0																
1 – 12	1.5																
1 – 36	2.0																
2 - 0	2.5										70						
2 - 24	3.0																
3 - 12	4.0																
4 - 0	5.0										105						
6-0	7.5										134						
8-0	10.0										162						
10 - 0	12.5										183						

Av. C.B.R. at 2.5 mm penetration: (%)

Av. C.B.R. at 5.0 mm penetration: (%)

Av. Saturation Moisture Content: (%) (%)

Av. Swelling:

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)						
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued by the PIU. The						
reference of the page No. of this Register on which Non Conformance Reports copy preserved.									
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Checked by:

Test for Water Bond Macadam Base

Form No. GB-1

Aggregate Impact Value of Aggregate (IS: 2386 – Part 4)

WBM Grade 2 Test 1

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations		Average		
Observations	1	2	3	
Weight of aggregate sample filling in the cylinder = W_1 (gm)				
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)				
A.I.V = $(W_2 / W_1) \times 100$				

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)					
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued by the PIU. The					
reference of the page No. of this Register on which Non Conformance Reports copy preserved.								
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Tested by:

Test for Water Bond Macadam Base

Form No. GB-1

Aggregate Impact Value of Aggregate (IS: 2386 – Part 4)

WBM Grade 2 Test 2

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations		Test Nos.		Average
Observations	1	2	3	
Weight of aggregate sample filling in the cylinder = W_1 (gm)				
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)				
A.I.V = $(W_2/W_1) \times 100$				

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)							
reference of the page No. o	the prescribed Limits, non con f this Register on which Non C ate of issue	1	5							

Checked by:

Test for Water Bond Macadam Base

Form No. GB-1

Aggregate Impact Value of Aggregate (IS: 2386 - Part 4)

WBM Grade 2 Test 3

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations		Test Nos.			
		2	3		
Weight of aggregate sample filling in the cylinder = W_1 (gm)					
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)					
A.I.V = $(W_2 / W_1) \times 100$					

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
If Results don't conform to	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.							
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Test for Water Bond Macadam Base

Form No. GB-1

Aggregate Impact Value of Aggregate (IS: 2386 – Part 4)

WBM Grade 2 Test 4

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations		Test Nos.			
		2	3		
Weight of aggregate sample filling in the cylinder = W_1 (gm)					
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)					
A.I.V = $(W_2 / W_1) \times 100$					

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Test for Water Bond Macadam Base

Form No. GB-1

Aggregate Impact Value of Aggregate (IS: 2386 - Part 4)

WBM Grade 2 Test 7

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations		Test Nos.			
		2	3		
Weight of aggregate sample filling in the cylinder = W_1 (gm)					
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)					
A.I.V = $(W_2 / W_1) \times 100$					

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Test for Water Bond Macadam Base

Sieve Analysis of Aggregate (IS: 2386 Part-1)

WBM Grade 2 Test 1

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Instruction for Blending

Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 2 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 3 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 4 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 5 Date of Testing :

Road / Section Details:

U

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value
	-				

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 6 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 7 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

retained (gm)	retained (%)	Cumulative percent of Wt. retained (%)	Wt. Passing (%)	Permissible Value
			Image: second	

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 8 Date of Testing :

Road / Section Details:

U

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 9 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 10 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tested by:

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 11 Date of Testing :

Road / Section Details:

Whether Confirms to the Prescribed Limits (Yes/No)

Checked by:

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Instruction for Blending
Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 12 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 13 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Instruction for Blending

Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 2 Test 14 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tested by:

Instruction for Blending

Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 2 Test 1

Sample No: Name of Quarry / Location: Date of Sampling: Date of Testing:

Size of	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)
63	50	$W_1 =$	23.90	$w_1 =$
50	40	$W_2 =$	27.00	w ₂ =
40	31.5	$W_3 =$	19.50	w ₃ =
31.5	25	$W_4 =$	16.95	$w_4 =$
25	20	$W_5 =$	13.50	w ₅ =
20	16	$W_6 =$	10.80	$w_6 =$
16	12.5	$W_7 =$	8.55	$w_7 =$
12.5	10	$W_8 =$	6.75	$w_8 =$
10	6.3	$W_9 =$	4.89	$w_9 =$
Total		W =		w =

Flakiness Index (F.I.) ? $\frac{W}{W}$ x100 ? (%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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:

Tested by:

Date: _____

Date: _____

Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 2Test 2

Sample No: Name of Quarry / Location: Date of Sampling: Date of Testing:

Size of	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)
63	50	$W_1 =$	23.90	$w_1 =$
50	40	$W_2 =$	27.00	w ₂ =
40	31.5	$W_3 =$	19.50	w ₃ =
31.5	25	$W_4 =$	16.95	$w_4 =$
25	20	$W_5 =$	13.50	w ₅ =
20	16	$W_6 =$	10.80	w ₆ =
16	12.5	$W_7 =$	8.55	$w_7 =$
12.5	10	$W_8 =$	6.75	w ₈ =
10	6.3	$W_9 =$	4.89	w ₉ =
Total		W =		w =

Flakiness Index (F.I.) ? $\frac{W}{W}$ x100 ? (%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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.					
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Checked by:

Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 2 Test 3

Sample No: Name of Quarry / Location: Date of Sampling: Date of Testing:

Size of	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)
63	50	$W_1 =$	23.90	$w_1 =$
50	40	$W_2 =$	27.00	w ₂ =
40	31.5	$W_3 =$	19.50	w ₃ =
31.5	25	$W_4 =$	16.95	$w_4 =$
25	20	$W_5 =$	13.50	w ₅ =
20	16	$W_6 =$	10.80	w ₆ =
16	12.5	$W_7 =$	8.55	$w_7 =$
12.5	10	$W_8 =$	6.75	$w_8 =$
10	6.3	$W_9 =$	4.89	$w_9 =$
Total		W =		w =

Flakiness Index (F.I.) $?~\frac{w}{W}$ x100 ?~(%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 2 Test 4

Sample No: Name of Quarry / Location:

Date of Sampling: Date of Testing:

Size of	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)
63	50	$W_1 =$	23.90	$\mathbf{w}_1 =$
50	40	$W_2 =$	27.00	w ₂ =
40	31.5	$W_3 =$	19.50	w ₃ =
31.5	25	$W_4 =$	16.95	$w_4 =$
25	20	$W_5 =$	13.50	w ₅ =
20	16	$W_6 =$	10.80	w ₆ =
16	12.5	$W_7 =$	8.55	$w_7 =$
12.5	10	$W_8 =$	6.75	$w_8 =$
10	6.3	$W_9 =$	4.89	w ₉ =
Total		W =		w =

Flakiness Index (F.I.) ? $\frac{W}{W}$ x100 ? (%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)	
If Results don't conform to	the prescribed Limits, non con	nformance Report will be is	ssued by the PIU. The	
reference of the page No. of this Register on which Non Conformance Reports copy preserved.				
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Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 2 Test 5

Sample No: Name of Quarry / Location: Date of Sampling: Date of Testing:

Size of a	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)
63	50	$W_1 =$	23.90	$\mathbf{w}_1 =$
50	40	$W_2 =$	27.00	w ₂ =
40	31.5	$W_3 =$	19.50	w ₃ =
31.5	25	$W_4 =$	16.95	$w_4 =$
25	20	$W_5 =$	13.50	w ₅ =
20	16	$W_6 =$	10.80	w ₆ =
16	12.5	$W_7 =$	8.55	$w_7 =$
12.5	10	$W_8 =$	6.75	$w_8 =$
10	6.3	$W_9 =$	4.89	$w_9 =$
Total		W =		w =

Flakiness Index (F.I.) $?~\frac{w}{W}$ x100 ?~(%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
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 D	Page No						

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Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 2 Test 6

Sample No: Name of Quarry / Location: Date of Sampling: Date of Testing:

Size of	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in	
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)	
63	50	$W_1 =$	23.90	$\mathbf{w}_1 =$	
50	40	$W_2 =$	27.00	$w_2 =$	
40	31.5	W ₃ =	19.50	w ₃ =	
31.5	25	$W_4 =$	16.95	$w_4 =$	
25	20	$W_5 =$	13.50	$w_5 =$	
20	16	$W_6 =$	10.80	w ₆ =	
16	12.5	$W_7 =$	8.55	$w_7 =$	
12.5	10	$W_8 =$	6.75	$w_8 =$	
10	6.3	$W_9 =$	4.89	$w_9 =$	
Total		W =		w =	

Flakiness Index (F.I.) ? $\frac{W}{W}$ x100 ? (%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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					

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Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 2 Test 7

Sample No: Name of Quarry / Location:

Date of Sampling: Date of Testing:

Size of	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in	
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)	
63	50	$W_1 =$	23.90	$\mathbf{w}_1 =$	
50	40	$W_2 =$	27.00	w ₂ =	
40	31.5	$W_3 =$	19.50	w ₃ =	
31.5	25	$W_4 =$	16.95	$w_4 =$	
25	20	W ₅ =	13.50	w ₅ =	
20	16	$W_6 =$	10.80	w ₆ =	
16	12.5	$W_7 =$	8.55	$w_7 =$	
12.5	10	$W_8 =$	6.75	$w_8 =$	
10	6.3	$W_9 =$	4.89	$w_9 =$	
Total		W =		w =	

Flakiness Index (F.I.) ? $\frac{W}{W}$ x100 ? (%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)		
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.					
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Test for Water Bond Macadam

Atterberg Limits Test for Binding Material

WBM Grade 2 Test 1

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

	Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
ſ	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						

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ?
$$\frac{mc_1 ? mc_2 ? mc_3}{3}$$
 ? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
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Checked by:

Test for Water Bond Macadam Base Water Absorption of Aggregate WBM Grade 2 Test 1 IS: 2386 (Part 3)

Sample No: Name of Quarry / Location Size of aggregate: Date of sampling: Date of Testing: Type of aggregate:

		Test Nos	i.
Observations	1	2	Mean value
Wt. of saturated aggregate and basket in water (W_1) gm			
Wt. of basket in water (W ₂) gm			
Wt. of saturated surface dry aggregate in air (W ₃) gm			
Wt. of oven dried aggregate in air (W4) gm			
Specific gravity = $W_4/W_3 - (W_1 - W_2)$			
Apparent Specific gravity = $W_4 / W_4 - (W_1 - W_2)$			
Water absorption = $(W_3 - W_4) \times 100 / W_4$ (%)			
Mean value of Specific gravity =			
Mean value of apparent specific gravity =			
Mean value of Water absorption =			

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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:

Test for Water Bond Macadam Base

Form No. GB-1

Aggregate Impact Value of Aggregate (IS: 2386 - Part 4)

WBM Grade 3 Test 1

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations	Test Nos.			Average
	1	2	3	
Weight of aggregate sample filling in the cylinder = W_1 (gm)				
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)				
A.I.V = $(W_2 / W_1) \times 100$				

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
If Results don't conform to	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:

Tested by:

Test for Water Bond Macadam Base

Form No. GB-1

Aggregate Impact Value of Aggregate (IS: 2386 – Part 4)

WBM Grade 3 Test 2

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations –		Test Nos.		
		2	3	
Weight of aggregate sample filling in the cylinder = W_1 (gm)				
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)				
A.I.V = $(W_2/W_1) \times 100$				

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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						

Checked by:

Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1)

WBM Grade 3 Test 1

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value
	l l				

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 3 Test 2 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 3 Test 3 Date of Testing :

Road / Section Details:

Weight of Sample tak

Sample No. :		Weight of Sample taken: (gm					
I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value		

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Test for Water Bond Macadam Base Sieve Analysis of Aggregate (IS: 2386 Part-1) WBM Grade 3 Test 4 Date of Testing :

Road / Section Details:

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Form GB-3

Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 3 Test 1

Sample No: Name of Quarry	Location:		Date of Sampling: Date of Testing:			
	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in		
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)		
63	50	$W_1 =$	23.90	$w_1 =$		
50	40	$W_2 =$	27.00	w ₂ =		
40	31.5	$W_3 =$	19.50	w ₃ =		
31.5	25	$W_4 =$	16.95	$w_4 =$		
25	20	$W_5 =$	13.50	$w_5 =$		
20	16	$W_6 =$	10.80	w ₆ =		
16	12.5	$W_7 =$	8.55	w ₇ =		
12.5	10	$W_8 =$	6.75	$w_8 =$		
10	6.3	$W_9 =$	4.89	w ₉ =		
Total		W =		w =		

Flakiness Index (F.I.) $?~\frac{w}{W}$ x100 ?~(%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)			
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.						
10	ate of issue	comornance response copy	proser tou.			

Checked by:

Tested by:

Date: _____

Date: _____

Test for Water Bond Macadam Base Flakiness Index of Aggregate WBM Grade 3Test 2

Sample No: Name of Quarry	Location:	Dat Dat			
Size of aggregate Passing through I.S.		Wt. of the fraction consisting of at least 200Thickness gauge size, (0.6 times the mean		Weight of aggregate in each fraction passing	
Sieve, (mm)	Sieve (mm)	pieces (gm)	sieve) (mm)	thickness gauge, (gm)	
63	50	$W_1 =$	23.90	$w_1 =$	
50	40	$W_2 =$	27.00	$w_2 =$	
40	31.5	$W_3 =$	19.50	w ₃ =	
31.5	25	$W_4 =$	16.95	$w_4 =$	
25	20	$W_5 =$	13.50	$w_5 =$	
20	16	$W_6 =$	10.80	$w_6 =$	
16	12.5	$W_7 =$	8.55	$w_7 =$	
12.5	10	$W_8 =$	6.75	$w_8 =$	
10	6.3	$W_9 =$	4.89	$w_9 =$	
Total		W =		w =	

Flakiness Index (F.I.) $?~\frac{w}{W}$ x100 ?~(%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
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							

Checked by:

Test for Water Bond Macadam

Atterberg Limits Test for Binding Material WBM Grade 3 Test 1

Road/Section Details:

Date of Testing :

Sample No.:

Type of soil :

Sample Details :

Determination of Liquid Limit (LL)

	1	2	3	4	5	6	Remarks
Container Number							
Weight of container + wet soil							
Weight of container + dry soil							
Loss of Moisture							
Wt. of container							
Wt. of dry soil							
Moisture content %							
Number of blows							
Liquid Limit (LL) = per cent							

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)	
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				

	1	2	3	Remarks
Container Number				
Weight of container + wet soil				
Weight of container + dry soil				
Loss of Moisture				
Weight of container				
Weight of dry soil				
Moisture content %				
	(mc_1)	(mc_2)	(mc_3)	

Plastic Limit (PL) ? $\frac{mc_1 ? mc_2 ? mc_3}{3}$? _____ per cent

Plasticity Index (PI) = LL – PL = _____ per cent

	Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)
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:

Test for Water Bond Macadam Base Water Absorption of Aggregate WBM Grade 3 Test 1 IS: 2386 (Part 3)

Sample No: Name of Quarry / Location Size of aggregate: Date of sampling: Date of Testing: Type of aggregate:

	Test Nos.		
Observations	1 2		Mean value
Wt. of saturated aggregate and basket in water (W_1) gm			
Wt. of basket in water (W ₂) gm			
Wt. of saturated surface dry aggregate in air (W ₃) gm			
Wt. of oven dried aggregate in air (W4) gm			
Specific gravity = $W_4/W_3 - (W_1 - W_2)$			
Apparent Specific gravity = $W_4 / W_4 - (W_1 - W_2)$			
Water absorption = $(W_3 - W_4) \times 100 / W_4$ (%)			
Mean value of Specific gravity =			
Mean value of apparent specific gravity =			
Mean value of Water absorption =			

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)	
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:
Pradhan Mantri Gram Sadak Yojana

Quality Control Register Part 1

Record of Tests

Section 3 Bituminous Construction

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	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	<u> </u>			
		Test 2				
		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

Quality Control Register Part 1 Record of Tests Section 3 Bituminous Construction <u>Abstract of tests Conducted</u>

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				
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

BL-3	Rate of Spread of Binder	Test Table		
BL-12	Rate of Spread of Aggregate	Test Table		

Tests of Bitumen Emulsions for Prime Coat and other Surfaces

Form No. BL-1(J)

Sieve Test for Bitumen Emulsions Test1

Sample Ref. Date: Tanker No. Type of Emulsion :

:

:

Sample	Wt. of sieve	Wt. of	Wt. of sieve	Sample wt.	Percentage	Acceptable
No.	(w1)	sieve + sample	+ sample	retained after	{(w3-w1)/	Limit
		(w2)	after heating	heating (w3-w1)	(w2-w1)	
			(w3)	-	100	
						As per IS:8887-1995

Layer	Value	Permissible Limit
		Max. 0.05%

Checked By:

Stability to Mixing with Coarse Aggregate on Bitumen Emulsion

Test1

Sample Ref. : Date: Tanker No. : Aggregate :Wet/dry

Sample No.	Coating of the total	
	aggregate surface area by the emulsion	
	Ciliuision	
	Good/Fair/Poor	

Good =Fully Coated

Fair =Coating applies to the condition of an excess of coated area over on coated area,

Poor = Applies to the condition of an excess of uncoated area over coated area.

Layer	Value	Permissible Limit
		As per specification

Checked By:

Viscosity of Bitumen by Standard Saybolt – Furol Viscometer

Test1

Sample Ref. Date: Tanker No. Type of Emulsion

:

:

:

Sample No.	Test Temperature	Viscosity (Sec.)	Acceptable Limit
	25 ° C		As per IS: 8887-
			1995

Layer	Value	Permissible Limit
		50-400 seconds at 50°
		As per IS 8887-1995
		*

Checked By:

Form No.BL-1(M)

<u>Storage Stability Test on Bitumen Emulsion</u> <u>Test1</u>

Sample Ref. Date: Tanker No.

:

:

Sample No.	% of residue from top sample (A)	% of residue from bottom sample (B)	Settlement (B-A)	Acceptable Limit
				As per IS: 8887-1995

Layer	Value	Permissible Limit
		50-400 seconds at 50°
		As per IS 8887-1995
		•

Checked By:

Form No. BL-1(N)

Particle Change of Emulsion

Test1

Sample Ref. : Date: Tanker No. : Type of Emulsion :

Sample No.	Wt. of Sample	Wt. of Emulsion on Cathode	% of cationic emulsion	Acceptable Limit
				As per IS: 8887-1995

Layer	Value	Permissible Limit
		+ve

Checked By:

Form No. BL-1(O)

Miscibility of Bitumen Emulson with Water <u>Test1</u>

Sample Ref. Date: Tanker No. Type of Emulsion

:

:

:

Sample No.	Total Volume	% appreciable	Acceptable Limit
-	(Distilled water +	coagulation of	-
	emulsion)(v)	asphalt content	
			As per IS: 8887-
			1995

Layer	Value	Permissible Limit
		Nil

Checked By:

Form No. BL-1(P)

<u>Stability of Bitumen Emulsion with Cement</u> <u>Test1</u>

Sample Ref. Date: Tanker No. Type of Emulsion

:

:

:

Sample	Wt. of sieve	Wt. of	Wt. of sieve	Stability % with	Acceptable
No.	(w1)	sieve + Wt. of	+ Wt. of	cement {(w3-w1)/	Limit
		sample mixed	sample after	(w2-w1)	
		with emulsion	washing	100	
		(w2)	(w3)		
					As per IS:8887- 1995

Layer	Value	Permissible Limit
		Max. 2% (SS)

Checked By:

Bitumen for Premix Carpet/ Surface Dressing Penetration of Bitumen

Test 1

Sample No.: Tanker No. :

Date of Testing:

1.	Pouring Temperature, °C	
2.	Period of cooling in atmosphere, minutes	
3.	Room temperature, °C	
4.	Period of cooling in water bath, minutes	
5.	Actual test temperature, °C	

Penetrometer dial	Sample No.			Sample No.				
reading	Test 1	Test 2	Test 3	Mean value	Test 1	Test 2	Test 3	Mean value
Initial								
Final								
Penetration value								
Mean Penetration value								

Layer	Value	Permissible Limit
		Depending upon grade specified

Checked by:

Tested by:

Form No. BL-1(B)

Bitumen for Premix Carpet/ Surface Dressing

Ductility of Bitumen Test 1

Sample No .:

Date of sampling:

Tanker No.:

Date of Testing:

1.	Grade of bitumen	
2.	Pouring temperature, °C	
3.	Test temperature, °C	
4.	Period of cooling, (minutes)	
4.1	In Air	
4.2	In water bath before trimming	
4.3	In water bath after trimming	

Test property		Mean value		
Test property	(a)	(b)	(c)	
Ductility value (cm)				

Layer	Value	Permissible Limit
		More than 75 unit

Checked by:

Tested by:

Bitumen for Premix Carpet/ Surface Dressing

Form No. BL-1(C)

Softening Point of Bitumen Test 1

Sample No.:

Date of sampling:

Tanker No.:

Date of Testing:

	1.	Grade of bitumen	
	2. Approximate softening point 3. Liquid used in water bath (water / Glycerin)		
	4.	Period of air cooling (minutes)	
	5	Period of cooling in water bath (minutes)	

Test property	Sample No. 1		Sample No. 2	
rest property	Ball	No.	Ball	No.
Temp. at which sample touch bottom plate (°C)	1	2	1	2
Mean Value, softening point				

Layer	Value	Permissible Limit
		More than 40°C

Checked by:

Tested by:

Form No. BL-1(D)

Bitumen for Premix Carpet/ Surface Dressing Specific Gravity of Bitumen Test 1

Date of Sampling:

Sample No.: Bitumen grade:

Date of Testing:

Sample No.	Wt. of Bottle (gm)	Wt. of Bottle + distilled water (gm)	Wt. of Bottle + half filled material (gm)	Wt. of Bottle + half filled material + distilled water (gm)	Specific gravity (gm/cc)
	W1	W2	W ₃	W_4	
1.					
2.					
3.					
Average					

Layer	Value	Permissible Limit
		Not less than 0.99 gm/cc

Checked by:

Form No. BL-1(E)

Bitumen for Premix Carpet/ Surface Dressing Water Content of Bitumen IS 73 – 1992 Test 1

Sample Ref.:

Date of Testing :

Tanker No. :

Bitumen grade:

Sample No.	Wt. of sample before heating (w ₁)	Wt. of sample after heating (w₂)	Water loss (w ₁ - w ₂)	Percentage Water content

Layer	Value	Permissible Limit
		Max. 0.2%

Checked by:

Tested by:

Form No. BL-1(F)

Bitumen for Premix Carpet/ Surface Dressing Flash Point of Bitumen Test 1

Sample Ref.:

Date of Testing :

Tanker No.:

Barometric pressure: mm

Bitumen grade:

Sample No.	Flash point °C	Corrected flash point

Layer	Value	Permissible Limit
		Min. 220ºC

Checked by:

Bitumen for Premix Carpet/ Surface Dressing

Form No. BL-1(G)

Viscosity of Bitumen Test 1

Sample Ref.:

Date of Testing :

Tanker No.:

Bitumen grade:

Sample No.	Flash time	Atmospheric Pressure	Viscosity

Layer	Value	Permissible Limit
		As per specifications

Checked by:

Tested by:

Form No. BL-1(H)

Bitumen for Premix Carpet/ Surface Dressing

Loss on Heat of Bitumen Test 1

Sample Ref.: Tanker No.: Bitumen grade: (a) Per cent loss on heat Date of Testing :

 Sample No.
 Wt. of bitumen before heating (w1)
 Wt. of bitumen after heating (w2)
 Percentage loss in wt.

 W1? W2 W1
 W1
 W1
 W1
 W1

(b) Retained penetration percentage

Sample No.	Penetration before heating (I ₁)	Penetration after heating (I ₂)	Retained penetration percentage <u>l1</u> x100 l2

Layer	Value	Permissible Limit
		As per specifications

Checked by:

Bitumen for Premix Carpet/ Surface Dressing Form No. BL-1(I)

Solubility of Bitumen in Trichloroethylene Test 1

Sample Ref.:

Date of Testing :

Tanker No.:

Bitumen grade:

Sample No.	Wt. of Sample (w ₁)	Wt. of insoluble material (w₂)	Percentage of solube material $\frac{w_1 ? w_2}{w_1} x100$

Layer	Value	Permissible Limit
		Min. 99%

Checked by:

Tested by:

Form No. BL-1(Q)

Bitumen for Premix Carpet/ Surface Dressing

Wax Content of Bituminous Material Test 1

Date of Testing :

Sample Ref.: Tanker No.: Bitumen grade:

Sample No.	Mass of weighing flask in gm (w ₁)	Mass of weighing flask plus wax gm (w₂)	Mass of sample in gm (s)	Wax % <u>w₂ ? w₁</u> s x100

Layer	Value	Permissible Limit
		Min. 4.5%

Checked by:

Bitumen for Premix Carpet/ Surface Dressing Penetration of Bitumen

Test 2

Sample No.: Tanker No. :

Date of Testing:

1.	Pouring Temperature, °C	
2.	Period of cooling in atmosphere, minutes	
3.	Room temperature, °C	
4.	Period of cooling in water bath, minutes	
5.	Actual test temperature, °C	

Penetrometer dial reading	Sample No.			Sample No.				
	Test 1	Test 2	Test 3	Mean value	Test 1	Test 2	Test 3	Mean value
Initial								
Final								
Penetration value								
Mean Penetration value								

Layer	Value	Permissible Limit
		Depending upon grade specified

Checked by:

Tested by:

Form No. BL-1(B)

Bitumen for Premix Carpet/ Surface Dressing Ductility of Bitumen Test 2

Sample No.:

Tanker No.:

Date of sampling:

Date of Testing:

Grade of bitumen	
Pouring temperature, °C	
Test temperature, °C	
Period of cooling, (minutes)	
In Air	
In water bath before trimming	
In water bath after trimming	
	Pouring temperature, °C Test temperature, °C Period of cooling, (minutes) In Air In water bath before trimming

Tost property		Moon value		
Test property	(a)	(b)	(c)	Mean value
Ductility value (cm)				

Layer	Value	Permissible Limit
		More than 75 unit

Checked by:

Bitumen for Premix Carpet/ Surface Dressing

Form No. BL-1(C)

Softening Point of Bitumen Test 2

Sample No.:

Date of sampling:

Tanker No.:

Date of Testing:

1.	Grade of bitumen	
2.	Approximate softening point	
3.	Liquid used in water bath (water / Glycerin)	
4.	Period of air cooling (minutes)	
5	Period of cooling in water bath (minutes)	

Test property	Sample	e No. 1	Sample No. 2	
rest property	Ball No.		Ball No.	
Temp. at which sample touch	1	2	1	2
bottom plate (°C)				
Mean Value, softening point				

Layer	Value	Permissible Limit
		More than 40°C

Checked by:

Tested by:

Form No. BL-1(D)

Bitumen for Premix Carpet/ Surface Dressing Specific Gravity of Bitumen Test 2

Sample No.:

Bitumen grade:

Date of Testing:

Date of Sampling:

Sample No.	Wt. of Bottle (gm)	Wt. of Bottle + distilled water (gm)	Wt. of Bottle + half filled material (gm)	Wt. of Bottle + half filled material + distilled water (gm)	Specific gravity (gm/cc)
	W ₁	W ₂	W ₃	W4	
1.					
2.					
3.					
Average					

Layer	Value	Permissible Limit
		Not less than 0.99 gm/cc

Checked by:

Form No. BL-1(E)

Bitumen for Premix Carpet/ Surface Dressing Water Content of Bitumen IS 73 – 1992 Test 2

Sample Ref.:

Date of Testing :

Tanker No. :

Bitumen grade:

Sample No.	Wt. of sample before heating (w ₁)	Wt. of sample after heating (w ₂)	Water loss (w ₁ - w ₂)	Percentage Water content

Layer	Value	Permissible Limit
		Max. 0.2%

Checked by:

Tested by:

Form No. BL-1(F)

Bitumen for Premix Carpet/ Surface Dressing Flash Point of Bitumen Test 2

Sample Ref.:

Date of Testing :

Tanker No.:

Barometric pressure: mm

Bitumen grade:

Sample No.	Flash point °C	Corrected flash point

Layer	Value	Permissible Limit
		Min. 220°C

Checked by:

Bitumen for Premix Carpet/ Surface Dressing

Form No. BL-1(G)

Viscosity of Bitumen Test 2 Date of Testing :

Sample Ref.:

Tanker No.:

Bitumen grade:

Sample No.	Flash time	Atmospheric Pressure	Viscosity

Layer	Value	Permissible Limit
		As per specifications

Checked by:

Tested by:

Form No. BL-1(H)

Bitumen for Premix Carpet/ Surface Dressing

Loss on Heat of Bitumen Test 2

Sample Ref.: Tanker No.: Bitumen grade: (a) Per cent loss on heat Date of Testing :

Sample No.	Wt. of bitumen before heating (w ₁)	Wt. of bitumen after heating (w₂)	Percentage loss in wt. $\frac{w_1 ? w_2}{w_1} x100$

(b) Retained penetration percentage

Sample No.	Penetration before heating (I ₁)	Penetration after heating (I ₂)	Retained penetration percentage <u>l</u> 1 x100 l2

Layer	Value	Permissible Limit
		As per specifications

Checked by:

Bitumen for Premix Carpet/ Surface Dressing Form No. BL-1(I)

Solubility of Bitumen in Trichloroethylene Test 2

Sample Ref.:

Date of Testing :

Tanker No.:

Bitumen grade:

Sample No.	Wt. of Sample (w ₁)	Wt. of insoluble material (w₂)	Percentage of solube material $\frac{w_1?w_2}{w_1}x100$

Layer	Value	Permissible Limit
		Min. 99%

Checked by:

Tested by:

Form No. BL-1(Q)

Bitumen for Premix Carpet/ Surface Dressing

Wax Content of Bituminous Material Test 2

Date of Testing :

Sample Ref.: Tanker No.: Bitumen grade:

Sample No.	Mass of weighing flask in gm (w ₁)	Mass of weighing flask plus wax gm (w₂)	Mass of sample in gm (s)	Wax % <u>w₂ ? w₁</u> x100 s

Layer	Value	Permissible Limit
		Min. 4.5%

Checked by:

Form No. BL-1(A)

Bitumen for Premix Carpet/ Surface Dressing/ Bituminous Macadam Penetration of Bitumen

Test 3

Sample No.: Tanker No. :

Date of Testing:

1.	Pouring Temperature, °C	
2.	Period of cooling in atmosphere, minutes	
3.	Room temperature, °C	
4.	Period of cooling in water bath, minutes	
5.	Actual test temperature, °C	

Penetrometer dial	Sample No.			Sample No.				
reading	Test 1	Test 2	Test 3	Mean value	Test 1	Test 2	Test 3	Mean value
Initial								
Final								
Penetration value								
Mean Penetration value								

Layer	Value	Permissible Limit
		Depending upon grade specified

Checked by:

Tested by:

Form No. BL-1(B)

Bitumen for Premix Carpet/ Surface Dressing

Ductility of Bitumen Test 3

Sample No .:

Date of sampling:

Tanker No.:

Date of Testing:

1.	Grade of bitumen	
2.	Pouring temperature, °C	
3.	Test temperature, °C	
4.	Period of cooling, (minutes)	
4.1	In Air	
4.2	In water bath before trimming	
4.3	In water bath after trimming	

Test property		Mean value		
rest property	(a)	(b)	(c)	IVIEAL VAIUE
Ductility value (cm)				

Layer	Value	Permissible Limit
		More than 75 unit

Checked by:

Bitumen for Premix Carpet/ Surface Dressing

Form No. BL-1(C)

Softening Point of Bitumen Test 3

Sample No.:

Date of sampling:

Tanker No.:

Date of Testing:

1.	Grade of bitumen	
2.	Approximate softening point	
3.	Liquid used in water bath (water / Glycerin)	
4.	Period of air cooling (minutes)	
5	Period of cooling in water bath (minutes)	

Test property	Sample	e No. 1	Sample No. 2	
Test property	Ball No.		Ball No.	
Temp. at which sample touch	1	2	1	2
bottom plate (°C)				
Mean Value, softening point				

Layer	Value	Permissible Limit
		More than 40°C

Checked by:

Tested by:

Form No. BL-1(D)

Bitumen for Premix Carpet/ Surface Dressing Specific Gravity of Bitumen Test 3

Sample No.:

Bitumen grade:

Date of Testing:

Date of Sampling:

Sample No.	Wt. of Bottle (gm)	Wt. of Bottle + distilled water (gm)	Wt. of Bottle + half filled material (gm)	Wt. of Bottle + half filled material + distilled water (gm)	Specific gravity (gm/cc)
	W ₁	W ₂	W ₃	W4	
1.					
2.					
3.					
Average					

Layer	Value	Permissible Limit
		Not less than 0.99 gm/cc

Checked by:

Form No. BL-1(E)

Bitumen for Premix Carpet/ Surface Dressing Water Content of Bitumen IS 73 – 1992 Test 3

Sample Ref.:

Date of Testing :

Tanker No. :

Bitumen grade:

Sample No.	Wt. of sample before heating (w ₁)	Wt. of sample after heating (w₂)	Water loss (w ₁ - w ₂)	Percentage Water content

Layer	Value	Permissible Limit
		Max. 0.2%

Checked by:

Tested by:

Form No. BL-1(F)

Bitumen for Premix Carpet/ Surface Dressing Flash Point of Bitumen Test 3

Sample Ref.:

Date of Testing :

Tanker No.:

Barometric pressure: mm

Bitumen grade:

Sample No.	Flash point ºC	Corrected flash point

Layer	Value	Permissible Limit
		Min. 220°C

Checked by:

Bitumen for Premix Carpet/ Surface Dressing

Form No. BL-1(G)

Viscosity of Bitumen Test 3

Sample Ref.:

Date of Testing :

Tanker No.:

Bitumen grade:

Sample No.	Flash time	Atmospheric Pressure	Viscosity

Layer	Value	Permissible Limit
		As per specifications

Checked by:

Tested by:

Form No. BL-1(H)

Bitumen for Premix Carpet/ Surface Dressing

Loss on Heat of Bitumen Test 3

Sample Ref.: Tanker No.: Bitumen grade: (a) Per cent loss on heat Date of Testing :

 Sample No.
 Wt. of bitumen before heating (w1)
 Wt. of bitumen after heating (w2)
 Percentage loss in wt.

 W1? W2 w1
 W1 w1

(b) Retained penetration percentage

Sample No.	Penetration before heating (I ₁)	Penetration after heating (I ₂)	Retained penetration percentage <u>l1</u> x100 l2

Layer	Value	Permissible Limit
		As per specifications

Checked by:

Bitumen for Premix Carpet/ Surface Dressing Form No. BL-1(1)

Solubility of Bitumen in Trichloroethylene Test 3

Sample Ref.:

Date of Testing :

Tanker No.:

Bitumen grade:

Sample No.	Wt. of Sample (w₁)	Wt. of insoluble material (w₂)	Percentage of solube material <u>W1 ? W2</u> w1 x100

Layer	Value	Permissible Limit
		Min. 99%

Checked by:

Tested by:

Form No. BL-1(Q)

Bitumen for Premix Carpet/ Surface Dressing

Wax Content of	Bituminous Material	
	T + 0	

Test 3 Date of Testing :

Sample Ref.: Tanker No.: Bitumen grade:

Sample No.	Mass of weighing flask in gm (w ₁)	Mass of weighing flask plus wax gm (w ₂)	Mass of sample in gm (s)	Wax % <u>W2 ? W1</u> s x100

Layer	Value	Permissible Limit
		Min. 4.5%

Checked by:

Aggregate for Premix Carpet/ Surface Dressing/ Bituminous Macadam

Aggregate Impact Value of Aggregate (IS: 2386 - Part 4)

Test 1

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations		Test Nos.		
		2	3	
Weight of aggregate sample filling in the cylinder = W_1 (gm)				
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)				
$A.I.V = (W_2/W_1) \times 100$				

Layer	Value	Permissible Limit
Sub-base course		Not more than 50
Base course		Not more than 40
Wearing course		Not more than 30

Checked by:

Tested by:

Form BL-4

Aggregate for Premix Carpet/ Surface Dressing/ Bituminous Macadam

Aggregate Impact Value of Aggregate (IS: 2386 - Part 4)

Test 2

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations		Test Nos.		
Observations	1	2	3	
Weight of aggregate sample filling in the cylinder = W_1 (gm)				
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)				
$A.I.V = (W_2/W_1) \times 100$				

Layer	Value	Permissible Limit
Sub-base course		Not more than 50
Base course		Not more than 40
Wearing course		Not more than 30

Checked by:

Form BL-4

Aggregate for Premix Carpet/ Surface Dressing/ Bituminous Macadam

Aggregate Impact Value of Aggregate (IS: 2386 – Part 4) Test 3

Sample No.:

Date of Testing:

Name of Quarry / Location:

Weight of Sample taken:

Observations		Test Nos.		
		2	3	
Weight of aggregate sample filling in the cylinder = W_1 (gm)				
Weight of aggregate passing 2.36 mm sieve after the test = W_2 (gm)				
$A.I.V = (W_2/W_1) \times 100$				

Layer	Value	Permissible Limit
Sub-base course		Not more than 50
Base course		Not more than 40
Wearing course		Not more than 30

Checked by:
Test for Aggregate for Bituminous construction Flakiness Index of Aggregate WBM Grade 3 Test 1

Sample No: Name of Quarry /	Location:	Dat Dat			
Size of a	aggregate	Wt. of the fraction	Thickness gauge size,	Weight of aggregate in	
Passing through I.S. Sieve, (mm)	Retained on I.S. Sieve (mm)	consisting of at least 200 pieces (gm)	(0.6 times the mean sieve) (mm)	each fraction passing thickness gauge, (gm)	
63	50	$W_1 =$	23.90	$w_1 =$	
50	40	$W_2 =$	27.00	w ₂ =	
40	31.5	$W_3 =$	19.50	w ₃ =	
31.5	25	$W_4 =$	16.95	$w_4 =$	
25	20	$W_5 =$	13.50	$w_5 =$	
20	16	$W_6 =$	10.80	w ₆ =	
16	12.5	$W_7 =$	8.55	w ₇ =	
12.5	10	$W_8 =$	6.75	w ₈ =	
10	6.3	$W_9 =$	4.89	w ₉ =	
Total		W =		w =	

Flakiness Index (F.I.) $?~\frac{w}{W}$ x100 ?~(%)

Layer	Value	Permissible Limit	Whether Confirms to the Prescribed Limits (Yes/No)				
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 D	ate of issue						

Checked by:

Tested by:

Date: _____

Date: _____

Form No. BL-6

Aggregate for Premix Carpet/ Surface Dressing/ Bituminous Macadam Stripping Value of Aggregate Test 1

Date of Sampling: Sample No: Name of Quarry / Location Date of Testing: Type of aggregate: Type of Binder Percentage of binder used: Total weight of aggregate: Total weight of binder: Temperature of water bath: Number of observations Stripping (%) 1 2 3 Average value Value Permissible Limit Layer

Checked by:

Tested by:

Form No. GB-7

Not more than 15 per cent

Aggregate for Premix Carpet/ Surface Dressing/ Bituminous Water Absorption of Aggregate IS: 2386 (Part 3) Test 1

Sample No: Name of Quarry / Location Size of aggregate:

Date of sampling: Date of Testing: Type of aggregate:

Observations				Test Nos	
Obse	Observations			2	Mean value
Wt. of saturated aggregate and b	asket in water (W	/1) gm			
Wt. of basket in water	(W ₂)	gm			
Wt. of saturated surface dry aggr	egate in air (W ₃)	gm			
Wt. of oven dried aggregate in air	· (W ₄) (gm			
Specific gravity = $W_4/W_3 - (W_1 - W_2)$	Specific gravity = $W_4/W_3 - (W_1 - W_2)$				
Apparent Specific gravity = W ₄ / V	$W_4 - (W_1 - W_2)$				
Water absorption = $(W_3 - W_4) \times 1$	00 / W ₄ (%)				
Mean value of Specific gravity	=				
Mean value of apparent specific g	gravity =				
Mean value of Water absorption	=				
Layer	Va	lue	Pern	nissible L	imit
			Not more	e than 2 p	per cent

Checked by:

Tested by:

Aggregate for Premix Carpet/ Surface Dressing

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 1

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Aggregate for Premix Carpet/ Surface Dressing

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 2

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Instruction for Blending

Aggregate for Premix Carpet/ Surface Dressing

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 3

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Aggregate for Premix Carpet/ Surface Dressing

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 4

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Aggregate for Premix Carpet/ Surface Dressing

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 5

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Tested by:

Instruction for Blending

Aggregate for Premix Carpet/ Surface Dressing

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 6

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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......

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Instruction for Blending

Aggregate for Premix Carpet/ Surface Dressing

Sieve Analysis (IS:2720 (Part 4) -1985)

Test 7

Road / Section Details:

Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Aggregate for Premix Carpet/ Surface Dressing

Sieve Analysis (IS:2720 (Part 4) -1985)

Road / Section Details:

Test 8 Date of Testing :

Sample No. :

Weight of Sample taken:

(gm)

I. S. Sieve designation	Weight of sample retained (gm)	Percent of Wt. retained (%)	Cumulative percent of Wt. retained (%)	Percentage of Wt. Passing (%)	Permissible Value

Whether Confirms to the Prescribed Limits (Yes/No)

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:

Tested by:

Instruction for Blending

Form No. BL-13

Aggregate for Premix Carpet

Test 1

Soundness of Aggregate

Sample No:

Date of Sampling:

Name of Quarry / Location:

Type of reagent used:

Date of Testing: Number of cycles:

Type of coarse aggregate sample:

Sieve s	ize, mm	Grading of original sample	Wt. of each fraction before	Percentage passing finer sieve after test	Weighted average (corrected	
Passing	Retained	(%)	test (gm)	(actual percent loss)	percentage loss)	
1	2	3	4	5	6	
60	40					
40	20					
20	10					
10	4.75					
Numbe	r of particles	coarser than				
	20mm befor	re test		es affected, classified as		
Passing	Retained	Number before test	disintegrating, splitting, crumbing, cracking or flanking			
40 mm	20 mm					
60 mm	40 mm					

Layer	Value	Permissible Limit
		Maximum 12 per cent
		(Sodium Sulphate Solution)
		Maximum 18 per cent
		(Magnesium Sulphate Solution)

Checked by:

Tested by: