

OFFICE OF THE ASSISTANT ENGINEER
RURAL WORKS DEPARTMENT
TESTING AND QUALITY CONTROL LABORATORY, PATNA

Date 24/11/25

Format - "A" (For Road/Approach Roads)

Name of Scheme :- RRSMP

1. Name of Road :- LO51 - TDG Naraina
2. Name of Circle :- PATNA
3. Name of Division :- PATNA
4. Length of Road (Sanctioned) :- 1.2 K.M
5. Date of Inspection :- 24/11/2025

Chainage/Location:-

Block :- Fatuiha
Actual Length :- ongoing

Sl.No	Parameters	Remarks
1	Attention to Quality	
I.	Field laboratory established with all necessary equipment (Attach Geo tagged Photographs).	yes.
II.	QC Register Part-1 & Part-2 maintained and mandatory test conduct as per provisions.	yes.
III.	Mention the name of tests conducted & their findings related to the following material.	
(a)	Cement/concrete	-
(b)	Sand	-
(c)	Stone	-
(d)	Steel	-
	Awarded Grade	
2	Geometrics	
I.	Chainage (m)	0.100 K.m
II.	Roadway width (m)	in Progress
III.	Carriageway width (m)	3.75
IV.	Carriageway camber (%)	2.7%
V.	Shoulder width (m)	in Progress
VI.	Shoulder camber (%)	in Progress
VII.	Side slope (V:H)	-
VIII.	Super elevation (%) / widening (m)	-
	Awarded Grade	S

3	Earth work and subgrade	
I.	Chainage (m)	—
II.	Soil identification/classification	—
III.	Degree of compaction (%)	—
	Awarded Grade	NA
4	Sub-Base	
I.	Chainage (m)	—
II.	Thickness of the layer (mm)	—
III.	Gradation of Sub-base material	—
IV.	Plasticity of Sub-base material	—
V.	Compaction of Sub-base layer (%)	—
	Awarded Grade	NA
5	Base Coarse-Water Bound Macadam (WMM/WBM) ✓	
I.	Chainage (m)	980
II.	Thickness of each layer of WBM/WMM (mm) ✓	75
III.	Plasticity of Crushable Aggregate	
IV.	Volume of filler material (%)	
V.	Gradation of Coarse Aggregate	Done and found OK.
	Awarded Grade	
6	Bituminous Base Coarse (BM)	
I.	Chainage (m)	—
II.	Percentage of Bitumen Content	—
III.	Thickness of Bituminous layer	—
IV.	Grading of Coarse Aggregate	—
	Awarded Grade	NA
7	Bituminous layer-premix Carpet (PMC)/MSS/SDBC	
I.	Chainage (m)	—
II.	Percentage of Bitumen Content	—
III.	Thickness of Bituminous layer	—
IV.	Grading of Coarse Aggregate	—

V.	Quality of wearing surface (Attach the test report of IRI)	—
	Awarded Grade	NA
8	Dry lean Cement Concrete	—
I.	Chainage (m)	—
II.	Thickness (mm)	—
III.	Compressive Strength of CC in Concrete Pavement/Concrete Block	—
	Awarded Grade	NA
9	CC/PQC/Panel Concrete Pavements	
I.	Chainage (m)	—
II.	Thickness of the pavement (mm)	—
III.	Width of the pavement (m)	—
IV.	Compressive Strength of CC in Concrete Pavement/Concrete Block	—
V.	Quality of workmanship joints & edge etc.	—
VI.	Quality of wearing surface (Attached the test report of IRI)	—
	Awarded Grade	NA
10	Shoulders	
I.	Chainage (m)	in Progress
II.	Width of the shoulder (m)	„
III.	Quality of material for Shoulders	„
IV.	Degree of Compaction (%) (Attached the test report)	„
	Awarded Grade	—
11	Cross Drainage Works	
I.	Chainage (m)	—
II.	Types of CD Structure	—
III.	Quality of material, such as concrete (cube test), stone/brick masonry, Hume pipe including size etc.	—
IV.	Quality of workmanship, such as positioning of Hume pipes, wing walls, cushion over hume pipes, vent clearance etc.	—
V.	Parapet Walls	—
	Awarded Grade	NA
12	Side Drain and Catch Water Drain	

I.	Chainage (m)	—
II.	General quality of side Drain/Catch Water Drains and their integration with CD Structures	—
	Awarded Grade	NA
13	Road Furniture and Markings	
I.	Main Informatory Board (As per Norms)	yes.
II.	Citizen Informatory Board/Maintenance Board (As per Norms)	yes
III.	Kilometer post/200 m Stone/Precautionary/Mandatory Sign Boards	in progress
IV.	Road Marking	in progress
	Awarded Grade	5

Note :- * Attach Test Report.
* Attach Relevant Photographs.

T.S/J.E
T&QC LABORATORY
PATNA

T.S/J.E
T&QC LABORATORY
PATNA

(Signature)
24/11/25
(ASSISTANT ENGINEER
T&QC LABORATORY
PATNA

OFFICE OF THE ASSISTANT ENGINEER
R.W.D., TESTING & QUALITY CONTROL LABORATORY, PATNA-1
A.I.V AND GRADATION TEST OF COARSE AGGREGATE OBSERVATION SHEET / TEST REPORT

Name of Work / Project :- LOS1 - T09 Naraina

Name of Scheme :- RRSMP

Name of Agency :- Arvind vijay (JV)

Name of Sample :- WMM

Location :- 0.980 km

Date of Collection / Received in Lab. :- 24/11/25

Date of Test :-

Package No. / Agreement No. :-

Ref. :- ~~Material sent by~~ E.E. / A.E. R.W.D. Works Division / Sub Division Fatuha

Vide letter No.

Dt.

A.I.V. Test Report (On Field / Lab)

No. of obs.	Wt. taken in gms (A)	Wt. after crushing in gms (B)	A-B in gms	% of passing	Mean value in %	Remarks
1.						
2.						
3.						

Gradation Test Report (On Field / Lab)

Sl. No.	Sieve Size in (mm)	Weight of sample taken Kgs				Required Value	Remarks
		Weight Retained	% of Wt. Retained	% of Cumm. Retained	% of Passing		
1	53.0	0	0	0	100	100	
2	45	1075	2.59	2.59	97.41	95-100	
3	22.4	12168	29.35	31.94	68.06	60-80	
4	11.20	8432	20.34	52.28	47.72	40-60	
5	4.75	6979	16.84	69.12	30.88	25-40	
6	2.360	5093	12.29	81.41	18.59	15-30	
7	0.600	3954	9.54	90.95	9.05	8-22	
8	0.075	3752	9.05	100	-	0-8	
9	Pan					100	

A.E.
Testing & Quality Control Laboratory
R.W.D. Patna-1

24/11/25

OFFICE OF THE ASSISTANT ENGINEER

R.W.D., TESTING & QUALITY CONTROL LABORATORY, PATNA-1

A.I.V AND GRADATION TEST OF COARSE AGGREGATE OBSERVATION SHEET / TEST REPORT

Name of Work / Project :- LOS1 - T09 Naraina

Name of Scheme :- RRSMP

Name of Agency :- Arind - vijay (JV)

Name of Sample :- WMM

Location :- 0.100 K.m

Date of Collection / Received in Lab. :- 24/11/25 ^{Site}

Date of Test :- 24/11/25

Package No. / Agreement No. :-

Ref. :- Material sent by E.E. / A.E. R.W.D. Works Division / Sub Division Fathu Fathu

Vide letter No. Dt.

A.I.V. Test Report (On Field / Lab)

No. of obs.	Wt. taken in gms (A)	Wt. after crushing in gms (B)	A-B in gms	% of passing	Mean value in %	Remarks
1.	/	/	/	/	/	
2.	/	/	/	/	/	
3.	/	/	/	/	/	

Gradation Test Report (On Field / Lab)

Sl. No.	Sieve Size in (mm)	Weight of sample taken Kgs					Remarks
		Weight Retained	% of Wt. Retained	% of Cumm. Retained	% of Passing	Required Value	
1	53.0	0	0	0	100	100	
2	45	1172	2.93	2.93	97.07	95-100	
3	22.4	10345	25.87	28.80	71.20	60-80	
4	11.20	8749	21.88	50.68	49.32	40-60	
5	4.75	7992	19.99	70.67	29.33	25-40	
6	2.360	4162	10.42	81.09	18.91	15-30	
7	0.600	3865	9.67	90.76	9.24	8-22	
8	0.075	3691	9.24	100	-	0-8	
9	Pan					100	

A.E.

Testing & Quality Control Laboratory
R.W.D. Patna-1

DATE OF TESTING: 26.7.25

Sieve analysis of WET MIX MACADAM (W.M.M.) material

Location at Ch: 0+350k.m

Total weight of sample taken: 401238gm

I.S. SIEVE DESIGNATION	Wt. of sample retained (gm)	percentage of Wt. retained (gm)	cumulative percentage of wt. retained (gm)	percentage of Wt. Passing (gm)	permissible range
53 mm	0	0	0	100	100%
45 mm	1059	2.64	2.64	97.36	95-100 %
22.4 mm	10476	26.11	28.75	71.25	60-80 %
11.2 mm	8783	21.89	50.64	49.36	40-60 %
4.75 mm	5260	13.11	63.75	36.25	25-40 %
2.36 mm	4377	10.91	74.66	25.34	15-30 %
600 mic	5332	13.29	87.95	12.05	08-22 %
75 mic	4702	11.72	99.67	0.33	0-8 %

Grading (Passed/Failed): passed

Sieve analysis of WET MIX MACADAM (W.M.M.) material

Location at Ch: 0+810k.m

Total weight of sample taken: 382358gm

I.S. SIEVE DESIGNATION	Wt. of sample retained (gm)	percentage of Wt. retained (gm)	cumulative percentage of wt. retained (gm)	percentage of Wt. Passing (gm)	permissible range
53 mm	0	0	0	100	100%
45 mm	746	1.95	1.95	98.05	95-100 %
22.4 mm	11386	29.78	31.73	68.27	60-80 %
11.2 mm	6901	18.05	49.78	50.22	40-60 %
4.75 mm	6079	15.89	65.67	34.33	25-40 %
2.36 mm	3040	7.95	73.62	26.38	15-30 %
600 mic	5498	14.38	88.00	12.00	08-22 %
75 mic	4424	11.57	99.57	0.43	0-8 %

Grading (Passed/Failed): passed

Sieve analysis of WET MIX MACADAM (W.M.M.) material

Location at Ch: 1+050k.m

Total weight of sample taken: 390238gm

I.S. SIEVE DESIGNATION	Wt. of sample retained (gm)	percentage of Wt. retained (gm)	cumulative percentage of wt. retained (gm)	percentage of Wt. Passing (gm)	permissible range
53 mm	0	0	0	100	100%
45 mm	1030	2.64	2.64	97.36	95-100 %
22.4 mm	10802	27.68	30.32	69.68	60-80 %
11.2 mm	9912	25.40	55.72	44.28	40-60 %
4.75 mm	4289	10.99	66.71	33.29	25-40 %
2.36 mm	3489	8.94	75.65	24.35	15-30 %
600 mic	4328	11.09	86.74	13.26	08-22 %
75 mic	4960	12.71	99.45	0.55	0-8 %

Grading (Passed/Failed): passed

CHECKED BY

TESTED BY

AN
26.7.25
J.E

AN
26.7.25
AGI Fathima

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

Form No. SB-1

Test 1

Road / Section Details A+ Stockpant

Date of Testing 24.7.25

Sample No. 02

Weight of soil sample taken 45392 (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
53mm	0	0	0	100	100
2.0-50mm	19841	43.71	43.71	56.29	50-80
4.75mm	16209	35.71	79.42	20.58	15-35
75mic	9237	20.35	99.77	0.23	≤ 10

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) 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. Date of issue.....

Checked by:

Instruction for Blending

Tested by:

Amor
24.7.25
J.E

AB
24.7.25
AG/Pathing

(Date & Signature)
Officer in charge

Tests for Granular Sub Base

Form No. SB-1

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

Test 1

Road / Section Details **A+ Stock plant**

Date of Testing **24.7.25**

Sample No. **01**

Weight of soil sample taken **48554** (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
53MM	0	0	0	100	100
75MM	19752	40.68	40.68	59.32	50-80
150MM	17712	36.48	77.16	22.84	15-35
300MM	10930	22.51	99.67	0.33	≤10

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) **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. Date of issue.

Checked by:

Tested by: **AG**

Instruction for Blending

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(Date & Signature)
Officer in charge