

**OFFICE OF THE SUPERITENDING ENGINEER
R.W.D ,TESTING AND QUALITY CONTROL CIRCLE
PURNIA**

DATE: 9/10/2025

(For Road/Approach Roads)

Name of Road :-	NH 107 TO SANTHAL TOLA		
Name of Scheme :-	RRSMP		
Name of Circle :-	PURNIA		
Name of Division :-	PURNIA	Block :-	PURNIA
Length of Road (Sanctioned) :-	2.86 KM		
Actual Length :-	2.86KM		
Date of Inspection :-	10/10/2025		
Sl.	Parameters		Remarks
1	Attention to Quality		
I.	Field laboratory established with all necessary equipment (Attach Geo tagged Photographs).		NO
II.	QC Register Part-1 & Part-2 maintained and mandatory test conduct as per provisions.		NO
III.	Mention the name of tests conducted & their findings related to the following material.		NIL
(a)	Cement/concrete		NIL
(b)	Sand		NIL
(c)	Stone		NIL
(d)	Steel		NIL
	Awarded Grade		U
2	Geometrics		
I.	Chainage (m)		630m
II.	Roadway width (m)		5.75m
III.	Carriageway width (m)		3.75m
IV.	Carriageway camber (%)		3.2%(SDBC)
V.	Shoulder width (m)		1m
VI.	Shoulder camber (%)		incompleted
VII.	Side slope (V:H)		incompleted
VIII.	Super elevation (%)/widening (m)		NA
	Awarded Grade		S
3	Earth work and subgrade		incompleted
I.	Chainage (m)		NA
II.	Soil identification/classification		NA
III.	Degree of compaction (%)		NA
	Awarded Grade		NA

4	Sub-Base	NIL
I.	Chainage (m)	NIL
II.	Thickness of the layer (mm)	NIL
III.	Gradation of Sub-base material	NIL
IV.	Plasticity of Sub-base material	NIL
V.	Compaction of Sub-base layer (%)	NIL
	Awarded Grade	NIL
5	Base Coarse-Water Bound Macadam (WMM/WBM)	NIL
I.	Chainage (m)	NIL
II.	Thickness of each layer of WBM/WMM (mm)	NIL
III.	Plasticity of Crushable Aggregate	NIL
IV.	Volume of filler material (%)	NIL
V.	Gradation of Coarse Aggregate	NIL
	Awarded Grade	NIL
6	Bituminous Base Coarse (BM)	
I.	Chainage (m)	630m
II.	Percentage of Bitumen Content	3.36
III.	Thickness of Bituminous layer	50mm
IV.	Grading of Coarse Aggregate	Fail
	Awarded Grade	U
7	Bituminous layer-premix Carpet (PMC)/MSS/SDBC	
I.	Chainage (m)	630m
II.	Percentage of Bitumen Content	2.5
III.	Thickness of Bituminous layer	25mm
IV.	Grading of Coarse Aggregate	Fail
V.	Quality of wearing surface (Attach the test report of IRI)	Good
	Awarded Grade	U
8	Dry lean Cement Concrete	N/A
I.	Chainage (m)	N/A
II.	Thickness (mm)	N/A
III.	Compressive Strength of CC in Concrete Pavement/Concrete Block	N/A
	Awarded Grade	N/A
9	CC/PQC/Panel Concrete Pavements	NOT CHECKED
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	

10	Shoulders	incompleted
I.	Chainage (m)	
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	N/A
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	
12	Side Drain and Catch Water Drain	N/A
I.	Chainage (m)	N/A
II.	General quality of side Drain/Catch Water Drains and their integration with CD Structure	N/A
	Awarded Grade	N/A
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	YES
IV.	Road Marking	YES
	Awarded Grade	S


 अधीक्षण अभियंता
 ग्रामीण सड़क विभाग
 पब्लिक वर्क मुद्रांकन निदेश
 पटना, पुनर्वा
 Superintending Engineer
 Testing And Quality control Circle
 Purnia

BINDER CONTENT (BITUMEN) OF S.D.B.C

NAM EOF ROAD :- CONSTRUCTION OF ROAD FROM NH-107 TO SANTHAL TOLA BAGHA . BANMANKHI BLOCK IN DISTRICT PURNEA .

ISSUE TO : EXEXURTIVE ENGINEER RWD (W) DIVISION, PURNEA		DATE OF COLLECTION / RECEIPT :- 10-10-2025			
		DATE OF TEST :- 11-09-2025			
AGENCY NAME PREM KUMAR		DATE OF REPORT :- 11-09-2025			
		THICKNESS OF LAYER - 25 MM			
SI.NO.	OBSERVATION	NO. OF TEST		Permissible Value	Remarks
-	Chainage	1.150 km	2.150 km	-	-
1	Wt. of mix taken before extraction (A)	1100	1100	5.0 %	Result Not Ok
2	Wt. of filter paper before extraction (B)	5.050	5.050		
3	Wt. of mix after extraction (C)	1052	1055		
4	Wt. of filter paper after extraction (D)	5.6	5.7		
5	Wt. of filler collected from extract after allowing for setting (E)	1.9	1.3		
6	Wt. of filler collected in filter paper (D - B) = F	0.550	0.650		
7	Wt. of aggregate + filler collected after extraction (C+E+F) = G	1054.450	1056.950		
8	Percentage of Bitumen (in the Mix) $\frac{(A-G) \times 100}{A}$	4.14 %	3.91 %		
Average Permissible Value				4.03 %	Result Not Ok

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11/9/25
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 प्राचीन नगर विभाग
 सी.ए. नियं
 अंचल, पुर्णिया

BINDER CONTENT (BITUMEN) OF BITUMINIOUS MACADAM

NAM EOF ROAD :- CONSTRUCTION OF ROAD FROM NH-107 TO SANTHAL TOLA BAGHA . BANMANKHI BLOCK IN DISTRICT PURNEA .

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AGENCY NAME	DATE OF TEST :- 11-09-2025
PREM KUMAR	DATE OF REPORT :- 11-09-2025
	THICKNESS OF LAYER - 50 MM

SI.NO.	OBSERVATION	NO. OF TEST		Permissible Value	Remarks
-	Chainage	1.150 km	2.150 km	-	-
1	Wt. of mix taken before extraction (A)	1000	1000	3.5 %	Permissible
2	Wt. of filter paper before extraction (B)	5.260	5.020		
3	Wt. of mix after extraction (C)	962	961		
4	Wt. of filter paper after extraction (D)	5.96	5.65		
5	Wt. of filler collected from extract after allowing for setting (E)	1.25	1.8		
6	Wt. of filler collected in filter paper (D - B) = F	0.700	0.630		
7	Wt. of aggregate + filler collected after extraction (C+E+F) = G	963.950	963.430		
8	Percentage of Bitumen (in the Mix) $\frac{(A-G) \times 100}{A}$	3.61 %	3.66 %		
Average Permissible Value				3.63 %	Permissible

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सर्वे एवं गुणवत्ता नियंत्रण
अंचल, पुर्णिया

GRADATION OF S.D.B.C

NAM EOF ROAD :- CONSTRUCTION OF ROAD FROM NH-107 TO SANTHAL TOLA BAGHA . BANMANKHI BLOCK IN DISTRICT PURNEA .

ISSUE TO :	DATE OF COLLECTION / RECEIPT :- 10-10-2025
EXEXURATIVE ENGINEER	DATE OF TEST :- 11-09-2025
RWD (W) DIVISION, PURNEA	DATE OF REPORT :- 11-09-2025
AGENCY NAME	THICKNESS OF LAYER - 25 MM
PREM KUMAR	

Chainage :- 1.150 Km

Sieve Size (mm)	Weight of Sample retained (gm)	Percent of wt. retained (%)	Cumulative Percent of wt. retained (%)	Present of wt. passing (%)	Premisable Value
13.2 mm	0	0	0	100	100
9.5 mm	225	27.27	27.27	72.73	90-100
4.75 mm	315	38.18	65.45	34.55	35-51
2.36 mm	70	8.48	73.94	26.06	24-39
1.18 MM	115	13.94	87.88	12.12	15-30
300 mic	65	7.88	95.76	4.24	9-19
75 mic	20	2.42	98.18	1.82	3-8
PAN	15	1.82	100.00	0.00	
Total Wt.	825				

Chainage :- 2.150 Km

Sieve Size (mm)	Weight of Sample retained (gm)	Percent of wt. retained (%)	Cumulative Percent of wt. retained (%)	Present of wt. passing (%)	Premisable Value
13.2 mm	0	0	0	100	100
9.5 mm	65	8.07	8.07	91.93	90-100
4.75 mm	420	52.17	60.25	39.75	35-51
2.36 mm	85	10.56	70.81	29.19	24-39
1.18 MM	125	15.53	86.34	13.66	15-30
300 mic	85	10.56	96.89	3.11	9-19
75 mic	22	2.73	99.63	0.37	3-8
PAN	3	0.37	100.00	0.00	
Total Wt.	805				

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GRADATION OF BITUMINIOUS MACADAM

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ISSUE TO : EXEXURATIVE ENGINEER RWD (W) DIVISION, PURNEA AGENCY NAME PREM KUMAR	DATE OF COLLECTION / RECEIPT :- 10-10-2025 DATE OF TEST :- 11-09-2025 DATE OF REPORT :- 11-09-2025 THICKNESS OF LAYER - 50 MM
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Chainage :- 1.150 Km

Sieve Size (mm)	Weight of Sample retained (gm)	Percent of wt. retained (%)	Cumulative Percent of wt. retained (%)	Present of wt. passing (%)	Premisable Value
26.5 mm	0	0	0	100	100
19 mm	205	24.40	24.40	75.60	90-100
13.2 mm	187	22.20	46.61	53.39	56-88
4.75 mm	323	38.39	85.00	15.00	16.36
2.36 mm	47	5.54	90.54	9.46	4.19
300 mic	45	5.36	95.89	4.11	2-10
75 mic	35	4.11	100.00	0.00	0 -8
Total Wt.	840				

Chainage :- 2.150 Km

Sieve Size (mm)	Weight of Sample retained (gm)	Percent of wt. retained (%)	Cumulative Percent of wt. retained (%)	Present of wt. passing (%)	Premisable Value
26.5 mm	0	0	0	100	100
19 mm	225	24.97	24.97	75.03	90-100
13.2 mm	235	26.08	51.05	48.95	56-88
4.75 mm	285	31.63	82.69	17.31	16.36
2.36 mm	65	7.21	89.90	10.10	4.19
300 mic	43	4.77	94.67	5.33	2-10
75 mic	48	5.33	100.00	0.00	0 -8
Total Wt.	901				

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