

Test Report No-02
Date 11/12/25

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

Name of Scheme :- RR SMP

1. Name of Road :- NH 30 A Macchhiariyawa to Khushalpur Path
2. Name of Circle :- Patna
3. Name of Division :- Patna
4. Length of Road (Sanctioned) :- 2.45 K.M
5. Date of Inspection :- 11/12/25

Chainage/Location :- 450, 1610, 12300

Block :- Daniyawar
Actual Length :- 2.45 K.M

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	S
2	Geometrics	
I.	Chainage (m)	450
II.	Roadway width (m)	6.0
III.	Carriageway width (m)	3.75
IV.	Carriageway camber (%)	2.6%
V.	Shoulder width (m)	in progress
VI.	Shoulder camber (%)	in progress
VII.	Side slope (V:H)	in progress
VIII.	Super elevation (%) / widening (m)	5.3%
	Awarded Grade	S

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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)	in Pot Patch
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	—
5	Base Coarse-Water Bound Macadam (WMM/WBM)	
I.	Chainage (m)	in Pot Patch
II.	Thickness of each layer of WBM/WMM (mm)	—
III.	Plasticity of Crushable Aggregate	—
IV.	Volume of filler material (%)	—
V.	Gradation of Coarse Aggregate	—
	Awarded Grade	—
6	Bituminous Base Coarse (BM)	
I.	Chainage (m)	450
II.	Percentage of Bitumen Content	3.54 %
III.	Thickness of Bituminous layer	50 mm
IV.	Grading of Coarse Aggregate	done found ok.
	Awarded Grade	S
7	Bituminous layer-premix Carpet (PMC)/MSS/SDBC	
I.	Chainage (m)	1610
II.	Percentage of Bitumen Content	5.11 %
III.	Thickness of Bituminous layer	25 mm
IV.	Grading of Coarse Aggregate	done and found ok.

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V.	Quality of wearing surface (Attach the test report of IRI)	in progress.
	Awarded Grade	S
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)	NA
	Awarded Grade	
10	Shoulders	
I.	Chainage (m)	460
II.	Width of the shoulder (m)	1.2
III.	Quality of material for Shoulders	in good.
IV.	Degree of Compaction (%) (Attached the test report)	in progress
	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	

P. Pratikmaji
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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)	—
III.	Kilometer post/200 m Stone/Precautionary/Mandatory Sign Boards	—
IV.	Road Marking	—
	Awarded Grade	S

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

Pooja Kumari
T.S/J.E 11/12/25

T&QC LABORATORY
PATNA

T.S/J.E

T&QC LABORATORY
PATNA

Shruti
11/12/25

(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 :- Name of Scheme :- Name of Agency :-
Name of Sample :- SDBC Chips Date of Collection / Received in Lab. :- Location :-
Package No. / Agreement No. :- Date of Test :-
Ref. :- Material sent by E.E. / A.E. R.W.D. Works Division / Sub Division
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 passed on 2.36mm Sieve	Mean value in %	Remarks
1.	375	302	73	19.46%	20.75%	
2.	385	306	79	20.51%		
3.	368	286	82	22.28%		

Gradation Test Report (On Field / Lab)

Sl. No.	Sieve Size in (mm)	Weight of sample taken Kgs					Remarks
		Weight Retained	% of Wt. Retained	% of Cum. Retained	% of Passing	Required Value	
1	13.2	0	0.00	0.00	100.00	100	
2	9.5	20	1.96	1.96	98.04	90-100	
3	4.75	535	52.40	54.36	45.64	35-51	
4	2.36	165	16.16	70.52	29.48	24-39	
5	1.18	63	6.17	76.69	23.31	15-30	
6	0.300	58	5.68	82.37	17.63	9-19	
7	0.075	105	10.28	92.65	7.35	3-8	
8	Pan	75	7.35	100	00		

Pratik Kumar
11/12/25
T.S

11/12/25

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A.I.V. AND GRADATION TEST OF COARSE AGGREGATE

OBSERVATION SHEET / TEST REPORT

Name of Work / NH-30A machhariaua to khushailpur path
Project :- Name of RRSMP
Scheme :- Name of construction, Hilsa
Agency :- M/S kumar
Name of Sample :- SDBC Chips Date of Collection / Received in 11/12/25
Lab. :- Location :- 1610 m Date of Test :- 11/12/25
Package No. / Agreement No. :- 011/CMBD/2025-26
Ref. :- Material sent by E.E. / A.E. R.W.D. Works Division / Sub Division Daniyawan.
Vide letter No. 03 Dt. 9/12/25

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 passed on 2.36mm Sieve	Mean value in %	Remarks
1.	375	302	73	19.46%	20.75%.	
2.	385	306	79	20.51%		
3.	368	286	82	22.28%		

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	13.2	0	0.00	100.00		100	
2	9.5	20	1.96	98.04		90-100	
3	4.75	535	52.40	45.64		35-51	
4	2.36	165	16.16	29.48		24-39	
5	1.18	63	6.17	23.31		15-30	
6	0.300	58	5.68	17.31		9-19	
7	0.075	105	10.28	07.035		3-8	
8	Pan	75	7.35	0.00			

Pratikmani
11/12/25
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PHYSICAL AND GRADATION TEST OF COARSE AGGREGATE

OBSERVATION SHEET / TEST REPORT

Name of Work / Project :- Name of **NH-30 A machharigawa to khushalpur Path**
Scheme :- Name of **RRSMP**
Agency :- **M/S kumar construction, Hilsa**
Name of Sample :- Bituminous Macadam Date of Collection / Received in **11/12/25**
Lab. :- Location :- **450 m** Date of Test :- **11/12/25**
Package No. / Agreement No. :- **011CMAD/2025-26**
Ref. :- Material sent by E.E. / A.E. R.W.D. Works Division / Sub Division **Daniyawar**
Vide letter No. **03** Dt. **9/12/25**

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 passed on 2.36mm Sieve	Mean value in %	Remarks
1.	358	293	65	18.16%	18.80%	
2.	365	292	73	20.00%		
3.	367	300	67	18.25%		

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	26.5	0	0.00	0.00	100	100	
2	19	36	3.66	3.66	96.34	90-100	
3	13.2	115	11.69	15.35	84.65	56-88	
4	4.75	510	51.83	67.17	32.83	16-36	
5	2.36	198	20.12	87.30	13.70	4-19	
6	0.300	80	8.13	95.43	4.57	2-10	
7	0.075	45	4.57	100.00	0.00	0-5	
8	Pan	984					

Pulkitmani
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[Signature]
11/12/25

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A.I.V. AND GRADATION TEST OF COARSE AGGREGATE

OBSERVATION SHEET / TEST REPORT

Name of Work / Project :- Name of Scheme :- Name of Agency :- Name of Sample :- SDBC Chips Lab. :- Location :- Package No. / Agreement No. :- Ref. :- Material sent by E.E. / A.E. R.W.D. Works Division / Sub Division Vide letter No. Dt.

NH-30A machhariajawa to kushalpur Path
RRSMP
M/s Kumar Construction, Hilsa
Date of Collection / Received in 11/12/25
Date of Test :- 11/12/25
01/CMBD/2025-26
Dahiyawa-
03 9/12/25

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 passed on 2.36mm Sieve	Mean value in %	Remarks
1.	395	314	81	20.51	20.63%	
2.	390	305	85	21.79		
3.	397	319	78	19.64		

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	13.2	0	0.00	0.00	100.00	100	
2	9.5	17	1.69	1.69	98.31	90-100	
3	4.75	529	52.23	54.22	45.78	35-51	
4	2.36	154	15.29	69.51	30.49	24-39	
5	1.18	69	6.85	76.37	23.63	15-30	
6	0.300	58	5.76	82.13	17.87	9-19	
7	0.075	111	11.02	93.15	6.85	3-8	
8	Pan	69	6.85	100.00	00		

Pratikman
11/12/25
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11/12/25

A.E.

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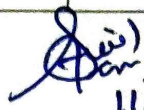
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BITUMINOUS MIX

Name of Project/Road :- NH-30 A machharigauwa to khushalpur Path.
Name of Scheme :- RRSM P
Name of Agency :- m/s kumar construction, Hilsa
Name of Sample :- Bitumen content
Location :- 450 m SDBL
Date of Collection / Received in Lab. :- 11/12/25
Date of Test :- 11/12/25
Package No. / Agreement No. :- 01/CMBD/2025-26
Ref. :- Material sent by E.E. / A.E., R.W.D. Works Div/Sub. Div. ✓ Danjauwa vide letter no. 03 Dt. 9/12/25

Sl.No.	Sample No.	1	2	3	Remarks
1	Wt. of mix taken before extraction (A)	1050	1020	1040	
2	Wt. of dry chips after extraction (B)	1010	985	1005	
3	Percentage of bitumen (in the mix) $[(A-B)*100/A]$ (%)	3.81%	3.43%	3.37%	
4	Average % of Bitumen		3.54%		

Priti Kishore
11/12/25
T.S


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BITUMINOUS MIX

Name of Project / Road :- NH-30 A machharipura to khushalpur path

Name of Scheme :- RRSM P

Name of Agency :- M/s Kumar Construction, Hilsa

Name of Sample :- Bitumen content of B.M.

Location :- 1610 m

Ref. :- Material sent by E.E. / A.E., R.W.D. Works Div./Sub. Div.

Date of Collection / Received in Lab. :-

Date of Test :-

Package No. / Agreement No. :-

vide letter no.

11/12/25

11/12/25

01/CMBD/2025-26

03

Dt. 9/12/25

Sl.No.	Sample No.	1	2	3	Remarks
1	Wt. of mix taken before extraction (A)	1150	1260	1250	
2	Wt. of dry chips after extraction (B)	1091	1195	1187	
3	Percentage of bitumen (in the mix) $[(A-B) \times 100 / A]$ (%)	5.13%	5.16	5.04%	
4	Average % of Bitumen		5.11 %		

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15/12/25

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