

**REPORT ON
BITUMEN CONTENT TEST
FOR THE PROPOSED
C/O**

**DEO MORE TO UPARDAHA
UNDER SCHEME
MR 3054**

**SUBMITTED TO:
EXECUTIVE ENGINEER
RWD. WORKS DIVISION, AURANGABAD**

**AGENCY NAME :
TRADEWELL CONSTRUCTION PVT LTD
PIPRDIH AURANGABAD**

**TESTING BY :
OM SAI TESTING AND RESEARCH
LABORATORY**

**HOUSE No A/109 SHIVPURI COLONY RANCHI JHARKHAND
PIN CODE 834001**

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OM SAI TESTING AND RESEARCH LABORATORY

HOUSE No A/109 SHIVPURI COLONY RANCHI JHARKHAND
PIN CODE 831001

BITUMEN CONTENT TEST OF SDBC

DEO MORE TO UPARDAHA UNDER SCHEME 3054

Type Of Material :SDBC

Name of Road :

DATE OF COLLECTION 14-Jun-20

DATE OF TESTING 18-Jun-20

SAMPLE NO.

Chainage & Section:

S.NO.	Observations	A4	A5	A6
		1+610 KM	1+980 KM	2+340 KM
		1	2	3
1	Wt. of Mix taken before extration (A)	500	500	500
2	Wt. of filter paper before extration (B)	5.93	5.94	6.02
3	Wt. of Mix after extration (c)	472.6	471.71	471.85
4	Wt. of filter paper after extration (D)	6.93	7.1	7.18
5	Wt. of filler collected from extract after allowing for seting (E)	1.23	1.31	1.340
6	Wt. of filler collected in filter paper (B-D) = (F)	1	1.16	1.16
7	Wt. of Aggregate + Filler collected after extration (C + E + F) = (G)	474.83	474.18	474.4
8	Percentage of Bitumen (in the Mix) $\frac{(A-G) \times 100}{A}$	5.03	5.164	5.13
		Value		
		Avg. Value	5.11%	
Layer				
SDBC				

Checked By

Tested By

Connelly
23/6/20
J-Ledee

23/6/20



OM SAI TESTING AND RESEARCH LABORATORY

RESEARCH & DEVELOPMENT
FOR BETTER QUALITY

BITUMEN CONTENT TEST OF ROAD

Name of Road:

DEO MORE TO UPANDHIA UNDER BOHEME MH 3004

Type of Material: SDBC

DATE OF COLLECTION

14-Jun-20

DATE OF TESTING

18-Jun-20

SAMPLE NO.

Chainage & Section:

S.NO.	Observations	A1	A2	A3
		0+460 KM	0+916 KM	1+310 KM
1	Wt. of Mix taken before extraction (A)	500	500	500
2	Wt. of filter paper before extraction (B)	0	0.00	0
3	Wt. of Mix after extraction (C)	471.05	472.05	472.1
4	Wt. of filter paper after extraction (D)	0.70	0.00	0.72
5	Wt. of filter collected from extract after allowing for sealing (E)	1.05	1.05	1.915
6	Wt. of filter collected in filter paper (B+D) - (F)	0.70	0.00	0.72
7	Wt. of Aggregate + Filter collected after extraction (C + E + F) = (G)	474.40	474.80	474.7
8	Percentage of Bitumen (In the Mix) $\frac{(A-G) \times 100}{A}$	5.10	5.022	5.05

Layer	Value	
SDBC	Avg. Value 5.060%	

Checked By

Tested By

Portella
23/6/20
J-E deo

23.6.20
ER



OM SAI TESTING AND RESEARCH LABORATORY

HOUSE No A/109 SHIVPURI COLONY RANCHI JHARKHAND
PIN CODE 834001

TEST RESULTS OF SEMI-DENSE BITUMINOUS CONCRETE FLAKINESS FLAKINESS INDEX

NAME OF ROAD

DEO MORE TO UPARDAHA UNDER SCHEME 3054

Type Of Material

SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test

19-06-2020

Weight of Sample(gr) - 493GM

Sno	Passing through IS Sieve (mm)	Retained on IS sieve (mm)	Wt. of the fraction of at least 200 pieces (gm)	Thickness gauge size (mm)	Wt. of aggregate in each fraction passing thickness gauge (gm)
1	2	3	4	5	6
1	12.5	10	25	6.75	0
2	10	6.3	468	4.89	52
Total (gm)			W= 493	W= 52	
			F.I.= 12.29		

ELONGATION INDEX

NAME OF ROAD

DEO MORE TO UPARDAHA UNDER SCHEME 3054

Type Of Material

SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test

19-06-2020

Weight of Sample(gr) - 437 GM

Sno	Passing through IS Sieve (mm)	Retained on IS sieve (mm)	Wt. of the fraction of at least 200 pieces (gm)	Thickness gauge size (mm)	Wt. of aggregate in each fraction passing thickness gauge (gm)
1	2	3	4	5	6
1	12.5	10	25	20.50	0
2	10	6.3	412	14.70	25
Total (gm)			W= 437	F.A.= 10.76	
				F.I.= 14.8	

F.I.+E.I.=

12.29+10.76

Checked By

Parash
23/6/20
J. Gole



SAI TESTING AND RESEARCH LABORATORY

MADE TO ORDER CONCRETE SAMPLES
FOR TEST ONLY

TEST RESULTS OF GRADATION FOR SEMI-DENSE BITUMINOUS CONCRETE (SDBC)

NAME OF ROAD

DEO MORE TO UPARDAHA UNDER SCHEME 3054

Type Of Material

SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test

18-06-2020

Weight of Sample - 4605 GM

IS Sieve Designation	Weight of Sample Retained (gm.)	% of Weight Retained	Cummulative % of Weight Retained	% of Weight Passing	Spec. Limits Vide Table 500.15 MORTH Specification
13.2mm	0	0	0	100	100
9.5mm	318	6.9	6.9	93.1	90-100
4.75mm	195	43.3	50.2	49.4	35-51
2.36mm	848	18.4	68.6	31.4	24-39
1.18mm	541	11.7	80.4	19.6	15-30
0.300mm	186	4	84.4	15.6	9-19
0.075mm	493	10.70	95.1	4.9	3-8
In Pan	224	4.9	100	0	-

Checked By

Tested By

Baseli
23/6/20
J.G. Chel

Baseli
23/6/20



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SAI TESTING AND RESEARCH LABORATORY

HOUSE No A/109 SHIVPURI COLONY RANCHI JHARKHAND

PIN CODE 834001

TEST RESULTS OF GRADATION FOR SEMI-DENSE BITUMINOUS CONCRETE (SDBC)

DEO MORE TO UPARDAHA UNDER SCHEME

NAME OF ROAD

Type Of Material

Date Of Test

SEMI-DENSE BITUMINOUS CONCRETE

18-06-2020

Weight of Sample - 4704 GM

I.S Seive Designation	Weight of Sample Retained (gm.)	% of Weight Retained	Cummulative % of Weight Retained	% of Weight Passing	Spec.Limits Vide Table 500.15 MORTH Specification
13.2mm	0	0	0	100	100
9.5mm	171	3.6	3.6	94.4	90-100
4.75mm	2385	50.7	54.3	45.7	35-51
2.36mm	652	13.9	68.2	31.8	24-39
1.18mm	591	12.6	80.8	19.2	15-30
0.300mm	474	10.1	90.8	9.2	9-19.
0.075mm	157	3.30	94.2	5.8	3-8.
In Pan	274	5.8	100	0	-

Checked By

Pradeep
23/6/20
J. G. Choudhary

Tested By

Pradeep
23/6/20



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Name of Road:- Deo More Road to Updrdaha

Date	Time	ction	Length	Bumps	Speed	OR	IRI	ORY	Latitude	ongitude	Event
		No.	In km	In mm	Rate	mm/km	mm/km	ROAD			
17/6/20	13:37:12	85	0.1	330	0	3300	3715	G	24.68124	84.46069	Normal
17/6/20	13:38:0	85	0.1	340	10.1	3400	3815	G	24.68144	84.45975	Normal
17/6/20	13:38:21	85	0.1	300	10.1	3000	3415	G	24.68169	84.45882	Normal
17/6/20	13:39:0	85	0.1	340	10.1	3400	3815	G	24.68175	84.45788	Normal
17/6/20	13:39:32	85	0.1	280	10.1	2800	3215	G	24.68211	84.45721	Normal
17/6/20	13:40:7	85	0.1	330	0	3300	3715	G	24.6825	84.45648	Normal
17/6/20	13:41:0	85	0.1	250	10.1	2500	2915	G	24.68293	84.45566	Normal
17/6/20	13:41:18	85	0.1	260	10.1	2600	3015	G	24.6831	84.45473	Normal
17/6/20	13:41:53	85	0.1	330	10.1	3300	3715	G	24.68332	84.45377	Normal
17/6/20	13:42:0	85	0.1	260	10.1	2600	3015	G	24.68359	84.45281	Normal
17/6/20	13:42:28	85	0.1	340	10.1	3400	3815	G	24.68382	84.45187	Normal
17/6/20	13:43:4	85	0.1	330	10.1	3300	3715	G	24.68402	84.45088	Normal
17/6/20	13:43:39	85	0.1	320	10.1	3200	3615	G	24.68426	84.44995	Normal
17/6/20	13:43:39	85	0.1	220	10.1	2200	2615	G	24.6845	84.44901	Normal
17/6/20	13:44:14	85	0.1	310	20.2	3100	3515	G	24.6847	84.44805	Normal
17/6/20	13:44:14	85	0.1	350	10.1	3500	3915	G	24.68492	84.44707	Normal
17/6/20	13:44:50	85	0.1	300	10.1	3000	3415	G	24.68577	84.44699	Normal
17/6/20	13:45:0	85	0.1	310	20.2	3100	3515	G	24.6867	84.44715	Normal
17/6/20	13:45:25	85	0.1	340	10.1	3400	3815	G	24.68758	84.44729	Normal
17/6/20	13:45:25	85	0.1	310	10.1	3100	3515	G	24.68848	84.44737	Normal
17/6/20	13:46:0	85	0.1	340	10.1	3400	3815	G	24.68938	84.44754	Normal
17/6/20	13:46:35	85	0.1	270	10.1	2700	3115	G	24.69026	84.44768	Normal
17/6/20	13:46:35	85	0.1	290	10.1	2900	3315	G	24.69116	84.44786	Normal
17/6/20	13:47:11	85	0.1	320	10.1	3200	3615	G	24.69204	84.44793	Normal
Total Length			2.400								

$$Y = 0 * X^2 + 1.000 * X + 415.2$$

$$X = 3300$$

$$Y = 3715$$

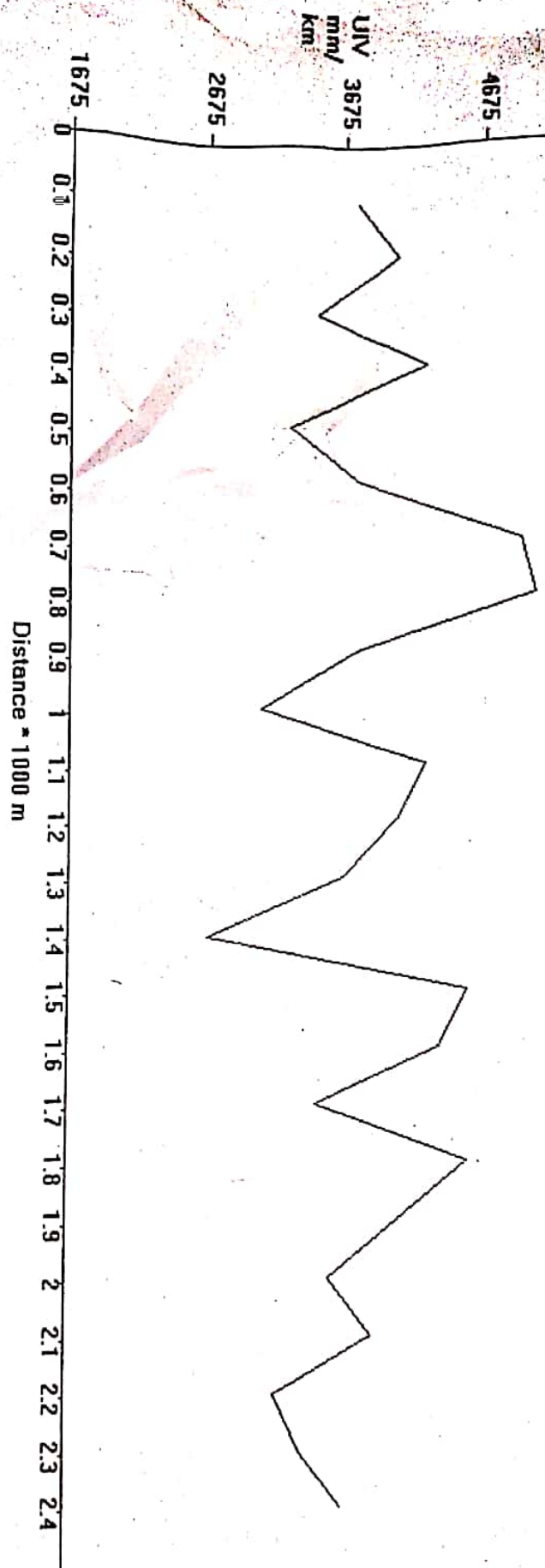
(R) RURAL ROAD

Good Average Poor
<4000 4001-5000 >5001

Pomally
23/6/20
J. Edler

23/6/20

File : C:\Users\BRDA67\Desktop\Bump\14051123.Xls, Section No. : 85, Eqn : $Y = 0 * X^2 + 0.984 * X + 510.7$
 Name of Customer : TRADEWELL CONST., Name of Work/ Road : DEO MORE ROAD TO UPRDAHA, Lab Job



Ponath
23/6/20
T.G.

RR
23/6/20
RR

कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य प्रमंडल, औरंगाबाद।
Email ID:-eerwdaurangabad1@gmail.com

पत्रांक..... 2580 औरंगाबाद/दिनांक..... 23.06.2020

प्रेषक,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, औरंगाबाद।

सेवा में,

नोडल पदाधिकारी (MR 3054)
ग्रामीण कार्य विभाग
पटना, बिहार

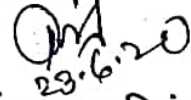
विषय :- नई अनुरक्षण नीति-2018MR (3054) योजना के अंतर्गत पथ में कराये गये कार्य के विरुद्ध आवंटन उपलब्ध कराने के संबंध में।

महाशय,

उपरोक्त विषय के संबंध में सूचित करना है कि नई अनुरक्षण नीति-2018 MR (3054) योजना के अंतर्गत पथ में कराये गये कार्य के लिए संवेदक को भुगतान करने हेतु अधियाचना विहित प्रपत्र में भरकर आवश्यक कार्यवाही हेतु समर्पित की जाती है।

अनु :- यथोक्त।

विश्वासभाजन



कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, औरंगाबाद

OFFICE OF EXECUTIVE ENGINEER, RURAL WORKS DEPARTMENT, WORKS DIVISION, Aurangabad

Requisition Format for Scheme Head- MR(3054) under Bihar Rural Road Maintenance Policy-2018 (Initial Rectification and Surface Renewal)

Name of Works Division:- Aurangabad

Sino.	Package No	Name of Road	Project ID as per MIS	Administrative Approval (AA) Letter No & Date	Administrative Approval (AA)		Agreement Amount		Agreement No & Date	Date of Completion as per Agreement	Actual Date of Completion	Value of IRI (in mm/km)	SBBC BM		Previous Total Allocated Amount (in Lakh)	up-to-date expenditure as per MIS (in Lakh)	Requisition against work done (in lakh)	Remarks
					Length (in km)	Amount of (in Lakh)	Initial Rectification with Surface Renewal (in Lakh)	5 Year Routine Maintenance (in Lakh)					Thickness of Bitumen Layer (in mm)	Value of Bitumen Content in Percentage				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	2	Rajoi Via, Dosna- Bel Barahi	NEA22000 41	Letter No. 3140 Date 22.07.2019	6.370	303.11000	272.80000	59.65000	59MBD/20 19-20 Date 04.02.2020	03.11.2020	-	2115	25 50 BM	5.08 3.34 BM	0.00000	0.00000	272.80000	Ongoing
2	8	Nabinagar road to Khairi	106028020 74	Letter No. 3140 Date 22.07.2019	4.883	123.62000	111.26000	43.75000	60MBD/20 19-20 Date 05.02.2020	04.11.2020	-	3715	25	5.05	0.00000	0.00000	111.26000	Ongoing
3	16	Deo more road to Upardaha	106028021 11	Letter No. 3140 Date 22.07.2019	2.460	58.40000	52.46000	23.010	71MBD/20 19-20 Date 15.02.2020	14.11.2020	-	3715	25	5.11	0.00000	0.00000	52.46000	Ongoing
4	14	Const. of Road from Deo Jewa Bigha to Silarth Khurd	106028010 05	Letter No. 3140 Date 22.07.2019	1.000	28.28000	25.45000	9.400	71MBD/20 19-20 Date 14.02.2020	13.11.2020	-	3715	25	5.08	0.00000	0.00000	25.45000	Ongoing
Total																	461.97000	

Executive Engineer
Rural Works Department
Works Division, Aurangabad