

कार्यपालक अभियंता का कार्यालय  
ग्रामीण कार्य विभाग, कार्य प्रमंडल, दाउदनगर

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पत्रांक..... 94751 दाउदनगर / दिनांक 18/4/22

प्रेषक,

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, दाउदनगर

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।

महा आय,

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।

विश्वास भाजन

कार्यपालक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य प्रमंडल, दाउदनगर  
18-04-22

**OFFICE OF EXECUTIVE ENGINEER, RURAL WORKS DEPARTMENT, WORKS DIVISION, Daudnagar**

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

Name of Works Division:- Daudnagar

| Sl no.       | Package No        | Name of Road           | Project ID as per MIS | Administrative Approval (AA) Letter No & Date | Administrative |                     | Agreement Amount                                     |                                      | Agreement No & Date                  | Date of Completion as per Agreement | Actual Date of Completion | Value of JRI (in mm/km) | Thickness of Bitumen Layer (in mm) | Value of Bitumen Content in Percentage | Previous Total Allotted 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) |                                      |                                     |                           |                         |                                    |                                        |                                          |                                             |                                         |         |
| 1            | 2                 | 3                      | 4                     | 5                                             | 6              | 7                   | 8                                                    | 9                                    | 10                                   | 11                                  | 12                        | 13                      | 14                                 | 15                                     | 16                                       | 17                                          | 18                                      | 19      |
| 1            | RM/AU/DAU/19/0016 | BIHADWA ROAD - KOTWARA | NEA22000270           | 2164/06.07.2019                               | 1.85           | 41.713              | 41.46503                                             | 15.36132                             | 40MBD/3054MR/2021.2022<br>27.11.2021 | 24.08.2022                          | 08.04.2022                | 3455                    | 25MM                               | 5.089%                                 | 0.00                                     | 0.00                                        | 35.31586                                | Comp.   |
| 2            | RM/AU/DAU/19/0016 | KASAMA ROAD - BAGHAURA | NEA22000298           | 2164/06.07.2019                               | 2.7            | 61.737              | 61.65157                                             | 22.83029                             | 40MBD/3054MR/2021.2022<br>27.11.2021 | 24.08.2022                          | 08.04.2022                | 3252                    | 25MM                               | 5.073%                                 | 0.00                                     | 0.00                                        | 56.62543                                | Comp.   |
| <b>TOTAL</b> |                   |                        |                       |                                               |                |                     |                                                      |                                      |                                      |                                     |                           |                         |                                    |                                        |                                          |                                             | <b>91.94129</b>                         |         |

*Handwritten:* 18.4.22  
Sr Divisional Accounts Officer  
Rural Works Department, works  
Division, Daudnagar

*Handwritten:* 18.4.22  
Executive Engineer  
Rural Works Department  
Works Division, Daudnagar

Name Of Road :- BHADWA ROAD - KOTWARA

| Date         | Time     | Section No. | Length in km | Bumps in mm | Speed Rate | OR mm/km | UIV  | ROAD | CATEGORY | IRI  | Latitude | Longitude | Event         |                                   |
|--------------|----------|-------------|--------------|-------------|------------|----------|------|------|----------|------|----------|-----------|---------------|-----------------------------------|
| 08/4/22      | 11:46:16 | 38          | 0.1          | 190         | 30.3       | 3300     | 3900 | G    |          | 3.16 | 24.82207 | 84.56285  | Normal        | $Y = 0 * X^2 + 1.136 * X + 132.5$ |
| 08/4/22      | 11:46:32 | 38          | 0.1          | 200         | 30.3       | 3000     | 3540 | G    |          | 3.16 | 24.82087 | 84.560639 | Speed Breaker | $X = 2956$                        |
| 08/4/22      | 11:46:46 | 38          | 0.1          | 150         | 30.3       | 2400     | 2858 | G    |          | 2.74 | 24.82006 | 84.559999 | Normal        | $Y = 3455$                        |
| 08/4/22      | 11:46:59 | 38          | 0.1          | 110         | 10.1       | 2900     | 3290 | G    |          | 3.85 | 24.81927 | 84.559607 | Speed Breaker |                                   |
| 08/4/22      | 11:47:13 | 38          | 0.1          | 120         | 10.1       | 3100     | 3518 | G    |          | 3.16 | 24.81789 | 84.559103 | Normal        |                                   |
| 08/4/22      | 11:47:28 | 38          | 0.1          | 230         | 20.2       | 2900     | 3390 | G    |          | 3.3  | 24.81652 | 84.558773 | Speed Breaker | (R) RURAL ROAD                    |
| 08/4/22      | 11:47:44 | 38          | 0.1          | 220         | 20.2       | 3300     | 3745 | G    |          | 2.6  | 24.81545 | 84.558321 | Speed Breaker | Good Average Poor                 |
| 08/4/22      | 11:47:59 | 38          | 0.1          | 300         | 30.3       | 3100     | 3654 | G    |          | 2.02 | 24.81475 | 84.557773 | Normal        | <4000 4001-5000 >5001             |
| 08/4/22      | 11:48:11 | 38          | 0.1          | 300         | 30.3       | 2600     | 3086 | G    |          | 2.16 | 24.81391 | 84.557329 | Normal        |                                   |
| 08/4/22      | 11:48:25 | 38          | 0.1          | 220         | 30.3       | 3400     | 3994 | G    |          | 3.72 | 24.81313 | 84.557091 | Normal        |                                   |
| 08/4/22      | 11:49:04 | 38          | 0.1          | 160         | 20.2       | 3400     | 3994 | G    |          | 3.58 | 24.81182 | 84.556512 | Normal        |                                   |
| 08/4/22      | 11:54:36 | 38          | 0.1          | 280         | 30.3       | 3000     | 3540 | G    |          | 4.66 | 24.81069 | 84.557299 | Normal        |                                   |
| 08/4/22      | 11:54:50 | 38          | 0.1          | 200         | 10.1       | 2910     | 3290 | G    |          | 3.66 | 24.80978 | 84.557069 | Speed Breaker |                                   |
| 08/4/22      | 11:55:02 | 38          | 0.1          | 160         | 10.1       | 2500     | 2972 | G    |          | 3.58 | 24.80898 | 84.55742  | Normal        |                                   |
| 08/4/22      | 11:55:13 | 38          | 0.1          | 270         | 20.2       | 3000     | 3540 | G    |          | 2.74 | 24.8088  | 84.559501 | Normal        |                                   |
| 08/4/22      | 11:55:26 | 38          | 0.1          | 280         | 10.1       | 2500     | 2972 | G    |          | 4.4  | 24.80728 | 84.560207 | Normal        |                                   |
| Total Length |          |             | 1.6          |             |            |          |      |      |          |      |          |           |               |                                   |

Admon  
J.E 9/4/2022

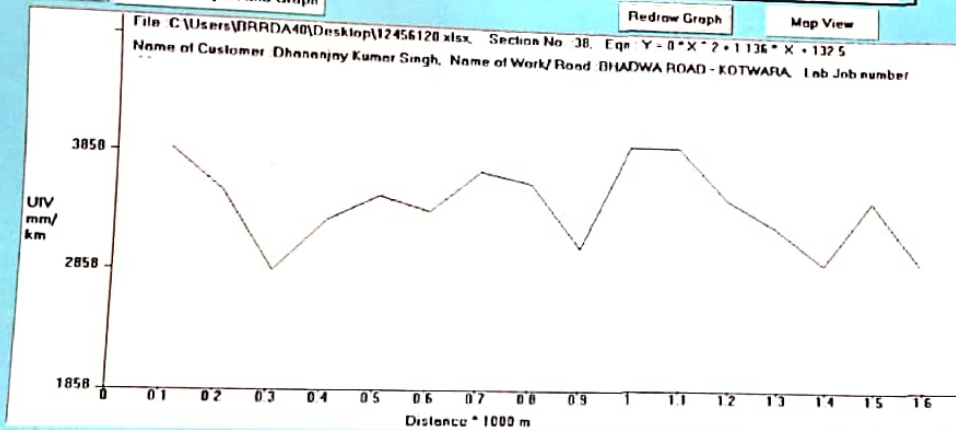
AE 9/4/22

AE

# Speed Analyzer

Name of Customer :   
 Name of Work/Road :   
 Lab Job number :   
 Date :   
 Section No. :

Test Date :  Road Name :   
 Machine No :  Road Type :   
 Start S No :  Side :  Interval :   
 Start E No :  Weather :  UV Range :  To  mm/km  
 Start Location :  Dist Range :  To  \* 1000 m  
 End Location :  Equation :



*Adman*  
 9/4/2022  
 J.E

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 AG

*Al*  
 18/04/22

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

**BHADWA ROAD TO KOTWARA UNDER SCHEME  
MR 3054  
AGREEMENT NO - MBD/2019-20**

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

**AGENCY NAME :  
DHANANJAY KUMAR SINGH  
VILLAGE, BAKAN AURANGABAD**

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

*2<sup>nd</sup> floor maheswari complex fraser road palna  
PIN CODE 300001*



# OM SAI TESTING AND RESEARCH LABORATORY

2<sup>nd</sup> floor maheswari complex fraser road patna

PIN CODE 800001

Ref.....

Date .....

## BITUMEN CONTENT TEST OF SEMI-DENSE BITUMINOUS CONCRETE

Name of Road : BHADWA ROAD TO KOTWARA UNDER SCHEME 3054

Type Of Material : SEMI-DENSE  
BITUMINOUS CONCRETE

DATE OF COLLECTION 05-04-2022

DATE OF TESTING 8-Apr-22

SAMPLE  
NO.

A1

A2

A3

| Chainage & Section:            |                                                                   |            |        |        |
|--------------------------------|-------------------------------------------------------------------|------------|--------|--------|
| S.NO.                          | Observations                                                      | 1          | 2      | 3      |
| 1                              | Wt. of Mix taken before extration                                 | 500        | 500    | 500    |
| 2                              | Wt. of filter paper before extration                              | 6.00       | 5.98   | 6.00   |
| 3                              | Wt. of Mix after extration                                        | 472.5      | 471.82 | 471.97 |
| 4                              | Wt. of filter paper after extration                               | 7.04       | 7.25   | 7.18   |
| 5                              | Wt. of filler collected from extract after allowing for seting    | 1.23       | 1.31   | 1.340  |
| 6                              | Wt. of filler collected in filter paper                           | 1.04       | 1.27   | 1.18   |
| 7                              | Wt. of Aggregate + Filler collected after extration               | 474.77     | 474.4  | 474.5  |
| 8                              | Percentage of Bitumen ( in the Mix ) $\frac{(A-G) \times 100}{A}$ | 5.05       | 5.12   | 5.10   |
| Layer                          |                                                                   | Value      |        |        |
| SEMI-DENSE BITUMINOUS CONCRETE |                                                                   | Avg. Value | 5.089% |        |

Checked By

*1/4/2022*



# OM SAI TESTING AND RESEARCH LABORATORY

2<sup>nd</sup> floor maheswari complex fraser road patna

PIN CODE 800001

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

NAME OF ROAD BHADWA ROAD TO KOTWARA UNDER SCHEME 3054

Type Of Material SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test 07-04-22

Weight of Sample - 4605 GM

| I.S 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



# OM SAI TESTING AND RESEARCH LABORATORY

2<sup>nd</sup> floor maheswari complex fraser road patna

PIN CODE 800001

## TEST RESULTS OF SEMI-DENSE BITUMINOUS CONCRETE FLAKINESS FLAKINESS INDEX

Ref.....

NAME OF  
ROAD

BHADWA ROAD TO KOTWARA UNDER SCHEME 3054

Date .....

Type Of Material

SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test

07-04-22

Weight of Sample(gr) - 493GM

| Sno        | Passing through<br>IS Sieve (mm) | Retained on IS<br>sieve (mm) | Wt. of the<br>fraction of at<br>least 200 pieces<br>(gm) | Thickness gauge<br>size (mm) | Wt. of aggregate<br>in each fraction<br>passing thickness<br>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

BHADWA ROAD TO KOTWARA UNDER SCHEME 3054

Type Of Material

SEMI-DENSE BITUMINOUS CONCRETE

Date Of Test

07-04-20202

Weight of Sample(gr) - 437 GM

| Sno | Passing through<br>IS Sieve (mm) | Retained on IS<br>sieve (mm) | Wt. of the<br>fraction of at<br>least 200 pieces<br>(gm) | Thickness gauge<br>size (mm) | Wt. of aggregate<br>in each fraction<br>passing thickness<br>gauge (gm) |
|-----|----------------------------------|------------------------------|----------------------------------------------------------|------------------------------|-------------------------------------------------------------------------|
| 1   | 2                                | 3                            | 4                                                        | 5                            | 6                                                                       |
| 1   | 12.5                             | 10                           | 25                                                       | 20.50                        | 0                                                                       |
| 2   | 10                               | 6.3                          | 412                                                      | 14.70                        | 47                                                                      |

Total (gm)

W= 437

F.I.= 10.76

F.I.+E.I.=

12.29+10.76

14.8

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