

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

Date 16/12/25

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

Name of Scheme :- RRSMP

1. Name of Road :- NH-83 Sahid Ramgobind Singh Halt to Palanga Halt
2. Name of Circle :- Patna
3. Name of Division :- Danapur.
4. Length of Road (Sanctioned) :-
5. Date of Inspection :- 16/12/25

Chainage/Location :- 170, 1850, 1620

Block :- Fulwarisari  
Actual Length :- 2.4 km

| 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.    | yes.     |
| (a)   | Cement/concrete                                                                            |          |
| (b)   | Sand                                                                                       |          |
| (c)   | Stone                                                                                      |          |
| (d)   | Steel                                                                                      |          |
|       | Awarded Grade                                                                              | S        |
| 2     | Geometrics                                                                                 |          |
| I.    | Chainage (m)                                                                               | 565      |
| II.   | Roadway width (m)                                                                          | 6.0      |
| III.  | Carriageway width (m)                                                                      | 3.75     |
| IV.   | Carriageway camber (%)                                                                     | 3.1 %.   |
| V.    | Shoulder width (m)                                                                         | 1.13 B/s |
| VI.   | Shoulder camber (%)                                                                        | 3.8 %.   |
| VII.  | Side slope (V:H)                                                                           | 1:2      |
| VIII. | Super elevation (%) / widening (m)                                                         | 6%       |
|       | 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                                 | in Pot Patch       |
| 5    | Base Coarse-Water Bound Macadam (WMM/WBM)     | —                  |
| I.   | Chainage (m)                                  | —                  |
| 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                                 | Pot Patch.         |
| 6    | Bituminous Base Coarse (BM)                   |                    |
| I.   | Chainage (m)                                  | 1850               |
| II.  | Percentage of Bitumen Content                 | 3.49%              |
| III. | Thickness of Bituminous layer                 | 50 mm              |
| IV.  | Grading of Coarse Aggregate                   | Done and found ok. |
|      | Awarded Grade                                 |                    |
| 7    | Bituminous layer-premix Carpet (PMC)/MSS/SDBC |                    |
| I.   | Chainage (m)                                  | 170                |
| II.  | Percentage of Bitumen Content                 | 5.05%              |
| III. | Thickness of Bituminous layer                 | 25 mm              |
| IV.  | Grading of Coarse Aggregate                   | Done and found ok. |

|      |                                                                                                                     |                          |
|------|---------------------------------------------------------------------------------------------------------------------|--------------------------|
| V.   | Quality of wearing surface (Attach the test report of IRI)                                                          | —                        |
|      | Awarded Grade                                                                                                       | S                        |
| 8    | <b>Dry lean Cement Concrete</b>                                                                                     | —                        |
| I.   | Chainage (m)                                                                                                        | —                        |
| II.  | Thickness (mm)                                                                                                      | —                        |
| III. | Compressive Strength of CC in Concrete Pavement/Concrete Block                                                      | —                        |
|      | Awarded Grade                                                                                                       | —                        |
| 9    | <b>CC/PQC/Panel Concrete Pavements</b>                                                                              |                          |
| I.   | Chainage (m)                                                                                                        | 1620                     |
| II.  | Thickness of the pavement (mm)                                                                                      | 125                      |
| III. | Width of the pavement (m)                                                                                           | 3.75                     |
| IV.  | Compressive Strength of CC in Concrete Pavement/Concrete Block                                                      | 355.5 kg/cm <sup>2</sup> |
| V.   | Quality of workmanship joints & edge etc.                                                                           | good.                    |
| VI.  | Quality of wearing surface (Attached the test report of IRI)                                                        | —                        |
|      | Awarded Grade                                                                                                       | S                        |
| 10   | <b>Shoulders</b>                                                                                                    |                          |
| I.   | Chainage (m)                                                                                                        | 1850                     |
| II.  | Width of the shoulder (m)                                                                                           | 1.2 B/S                  |
| III. | Quality of material for Shoulders                                                                                   | good.                    |
| IV.  | Degree of Compaction (%) (Attached the test report)                                                                 | —                        |
|      | Awarded Grade                                                                                                       | S                        |
| 11   | <b>Cross Drainage Works</b>                                                                                         |                          |
| 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   | <b>Side Drain and Catch Water Drain</b>                                                                             |                          |

|      |                                                                                           |       |
|------|-------------------------------------------------------------------------------------------|-------|
| I.   | Chainage (m)                                                                              |       |
| II.  | General quality of side Drain/Catch Water Drains and their integration with CD Structures | -     |
|      | Awarded Grade                                                                             | not - |
| 13   | <b>Road Furniture and Markings</b>                                                        |       |
| 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                            | yes.  |
| IV.  | Road Marking                                                                              | yes.  |
|      | Awarded Grade                                                                             | S     |

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

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

*dalit*  
16/12/25  
T.S/J.E  
T&QC LABORATORY  
DANAPUR

*(Signature)*  
16/12/25  
(ASSISTANT ENGINEER)  
T&QC LABORATORY  
DANAPUR

# OFFICE OF THE ASSISTANT ENGINEER

R.W.D., TESTING & QUALITY CONTROL LABORATORY, DANAPUR

## PHYSICAL AND GRADATION TEST OF COARSE AGGREGATE

### OBSERVATION SHEET / TEST REPORT

Name of Work / Project :- Name of **NH-83 Sahid Ramgobind Singh Halt to Pargana Halt**  
Scheme :- Name of **RRSMP**  
Agency :- **Permanand and Nirgagan and Aaryan (J.V)**  
Name of Sample :- **Bituminous Macadam** Date of Collection / Received in  
Lab. :- Location :- **1850 m** Date of Test :- **16/12/25**  
Package No. / Agreement No. :-  
Ref. :- Material sent by E.E. / A.E. R.W.D. Works Division / Sub Division **Fulwarisari**  
Vide letter No. **64** Dt. **20/9/25**

#### 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.          | 361.24               | 288.64                        | 72.6       | 20.10                       | 19.69%          |         |
| 2.          | 358.52               | 285.22                        | 73.3       | 20.44                       |                 |         |
| 3.          | 355.70               | 289.7                         | 66.0       | 18.55                       |                 |         |

#### Gradation Test Report (On Field / Lab)

| Sl. No. | Sieve Size in (mm) | Weight of sample taken Kgs <b>0.930 Kg</b> |                   |                     |              |                | Remarks |
|---------|--------------------|--------------------------------------------|-------------------|---------------------|--------------|----------------|---------|
|         |                    | Weight Retained                            | % of Wt. Retained | % of Cumm. Retained | % of Passing | Required Value |         |
| 1       | 26.5               | 0                                          | 0                 | 0                   | 100          | 100            |         |
| 2       | 19                 | 78.12                                      | 8.4               | 8.4                 | 91.6         | 90-100         |         |
| 3       | 13.2               | 140.43                                     | 15.1              | 23.5                | 76.50        | 56-88          |         |
| 4       | 4.75               | 434.31                                     | 46.7              | 70.2                | 29.80        | 16-36          |         |
| 5       | 2.36               | 135.78                                     | 14.6              | 84.8                | 15.2         | 4-19           |         |
| 6       | 0.300              | 63.24                                      | 6.8               | 91.6                | 8.10         | 2-10           |         |
| 7       | 0.075              | 42.78                                      | 4.6               | 96.2                | 3.8          | 0-5            |         |
| 8       | Pan                |                                            |                   |                     |              |                |         |

Sabit  
16/12/25  
TS

  
16/12/25

A.E.  
Testing & Quality Control Laboratory  
R.W.D. Danapur

# OFFICE OF THE ASSISTANT ENGINEER

R.W.D., TESTING & QUALITY CONTROL LABORATORY, DANAPUR

## 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 :- 170 m

Package No. / Agreement No. :-

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

Vide letter No. .... Dt. ....

Date of Collection / Received in

Date of Test :-

16/12/25

Fulwari Saran

### 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.          | 362.5                | 289.1                         | 73.4       | 20.24                       | 19.44%          |         |
| 2.          | 358.8                | 287.0                         | 71.8       | 20.01                       |                 |         |
| 3.          | 363.2                | 297.6                         | 65.6       | 18.06                       |                 |         |

### Gradation Test Report (On Field / Lab)

| Sl. No. | Sieve Size in (mm) | Weight of sample taken Kgs 0.900 Kg |                   |                     |              |                | Remarks |
|---------|--------------------|-------------------------------------|-------------------|---------------------|--------------|----------------|---------|
|         |                    | Weight Retained                     | % of Wt. Retained | % of Cumm. Retained | % of Passing | Required Value |         |
| 1       | 13.2               | 0                                   | 0                 | 0                   | 100          | 100            |         |
| 2       | 9.5                | 68.4                                | 7.6               | 7.6                 | 92.4         | 90-100         |         |
| 3       | 4.75               | 437.4                               | 48.6              | 56.2                | 43.8         | 35-51          |         |
| 4       | 2.36               | 110.7                               | 12.3              | 68.5                | 31.5         | 24-39          |         |
| 5       | 1.18               | 80.1                                | 8.9               | 77.4                | 22.6         | 15-30          |         |
| 6       | 0.300              | 64.8                                | 7.2               | 84.6                | 15.4         | 9-19           |         |
| 7       | 0.075              | 91.8                                | 10.2              | 94.8                | 5.2          | 3-8            |         |
| 8       | Pan                |                                     |                   |                     |              |                |         |

Lalit  
16/12/25  
TS

16/12/25

A.E.

Testing & Quality Control Laboratory  
R.W.D. Danapur

# OFFICE OF THE ASSISTANT ENGINEER

R.W.D., TESTING & QUALITY CONTROL LABORATORY DANAPUR

## CONCRETE CUBE TEST RESULT OBSERVATION SHEET / TEST REPORT

1. Name of Work / Project :- NH-83 Sahid Rameshbind Singh Halt to Palanga Halt  
2. Name of Scheme :- RRSM P  
3. Name of Agency :- Permand and Niragan and Aaryan (J.V.)  
4. Name of Sample :- Concrete Cube Date of Collection / Received in Lab. :- 16/12/25  
5. Location :- 1620 m Date of Test :-  
Package No. / Agreement No. :-

Ref. :- E.E. / A.E., R.W.D. Works Division / Sub Division ..... Vide letter No. .... Dt. ....

### PHYSICAL TEST

| Sl. No. | Test 7/28 Days     |                           |                           |                         |                        |                                     |                                    |                           |                                         |                                              |                                         |         |
|---------|--------------------|---------------------------|---------------------------|-------------------------|------------------------|-------------------------------------|------------------------------------|---------------------------|-----------------------------------------|----------------------------------------------|-----------------------------------------|---------|
|         | Date of Concreting | Member Under Construction | Proportion of Mix / Grade | Identification of Marks | Weight of sample in Kg | Area of mould (kg/cm <sup>2</sup> ) | Load at initial Cracking (KN/Tone) | Maximum Load in (KN/Tone) | Crushing Strength in Kg/Cm <sup>2</sup> | Average Crushing Strength Kg/Cm <sup>2</sup> | Required Crushing in Kg/Cm <sup>2</sup> | Remarks |
| 1       | 2                  | 3                         | 4                         | 5                       | 6                      | 7                                   | 8                                  | 9                         | 10                                      | 11                                           | 12                                      |         |
| 1       | 05/10/25           | CCP                       | M35                       | 1                       | 8.575                  | 225                                 | 760                                | 800                       | 355.5                                   |                                              |                                         |         |
| 2       | 5/10/25            | CCP                       | M35                       | 2                       | 8.550                  | 225                                 | 770                                | 810                       | 360.0                                   | 355.5                                        | 350                                     |         |
| 3       | 5/10/25            | CCP                       | M35                       | 3                       | 8.600                  | 225                                 | 780                                | 790                       | 351.1                                   |                                              |                                         |         |

Lalit  
16/12/25  
TS

A.E.  
Testing & Quality Control Laboratory  
R.W.D. Danapur

# OFFICE OF THE ASSISTANT ENGINEER

R.W.D., TESTING & QUALITY CONTROL LABORATORY DANAPUR

## BITUMINOUS MIX

Name of Project / Road :- NH-83 Sahid Ramgobind Singh Halt to Palanga Tak.  
Name of Scheme :- RR SMP  
Name of Agency :- Permanand and Nir Gagan and Aaryan (JV)  
Name of Sample :- Binder content of SBC  
Location :- 170 m  
Date of Collection / Received in Lab. :- 16/12/25  
Date of Test :- 16/12/25  
Package No. / Agreement No. :-  
Ref. :- Material sent by E.E. / A.E., R.W.D. Works Div/Sub. Div. .... vide letter no. .... Dt. ....

| Sl.No. | Sample No.                                             | 1      | 2      | 3     | Remarks |
|--------|--------------------------------------------------------|--------|--------|-------|---------|
| 1      | Wt. of mix taken before extraction (A)                 | 1000   | 1000   | 1000  |         |
| 2      | Wt. of dry chips after extraction (B)                  | 949.88 | 949.7  | 948.9 |         |
| 3      | Percentage of bitumen (in the mix) $[(A-B)*100/A]$ (%) | 5.01   | 5.03   | 5.11  |         |
| 4      | Average % of Bitumen                                   |        | 5.057. |       |         |

Sahit  
16/12/25  
TS

16/12/25

A.E.  
Testing & Quality Control Laboratory  
R.W.D. Danapur

# OFFICE OF THE ASSISTANT ENGINEER

R.W.D., TESTING & QUALITY CONTROL LABORATORY DANAPUR

BITUMINOUS MIX

Name of Project/Road :- NH-83 Sahid Ramgobind Singh Halt to Planga Halt.  
Name of Scheme :- RRSMP  
Name of Agency :- Permarand and Nirgagan and Aaryan (JV)  
Name of Sample :- Binder Corden of Bm  
Location :- 1850  
Date of Collection / Received in Lab. :- 16/12/25  
Date of Test :- 16/12/25  
Package No. / Agreement No. :-  
Ref. :- Material sent by E.E. / A.E., R.W.D. Works Div./Sub. Div. .... vide letter no. .... Dt. ....

| Sl.No. | Sample No.                                             | 1     | 2      | 3     | Remarks |
|--------|--------------------------------------------------------|-------|--------|-------|---------|
| 1      | Wt. of mix taken before extraction (A)                 | 1000  | 1000   | 1000  |         |
| 2      | Wt. of dry chips after extraction (B)                  | 965.1 | 964.9  | 965.2 |         |
| 3      | Percentage of bitumen (in the mix) $[(A-B)*100/A]$ (%) | 3.49  | 3.51   | 3.48  |         |
| 4      | Average % of Bitumen                                   |       | 3.49 % |       |         |

Sahid  
16/12/25  
TS

A.E.  
Testing & Quality Control Laboratory  
R.W.D. Danapur



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

Package No - RRSMP/2024-25/Danapur/04

## MUKHYA MANTRI GRAM SAMPARK YOJNA QUALITY CONTROL REGISTER PART-2

Parmanand, Neer Gagan and Arjun (J.V)

### Record of test

Name of Road - NH-83 Sahid Ramgovind Singh  
Halt to Palanga.

Length of Road - 2.400 km

Block - Phulwari Sharif

Dist - Patna

Agreement No - 06/CMBD/2025-26

R.W.D (W) Div. Danapur

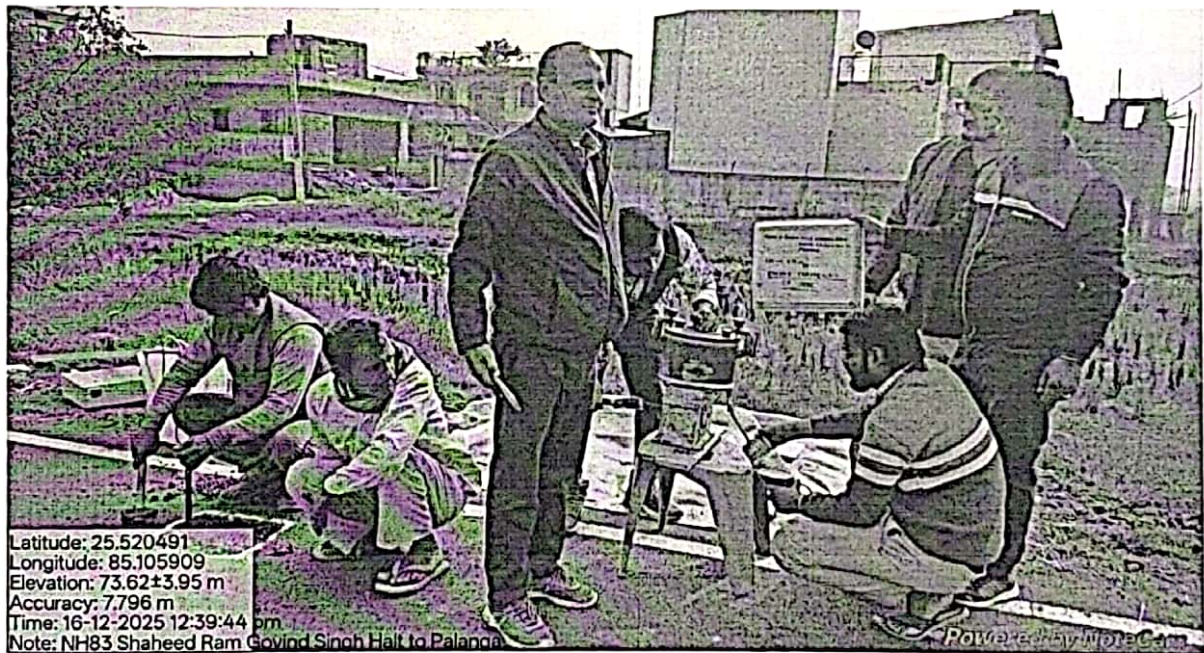
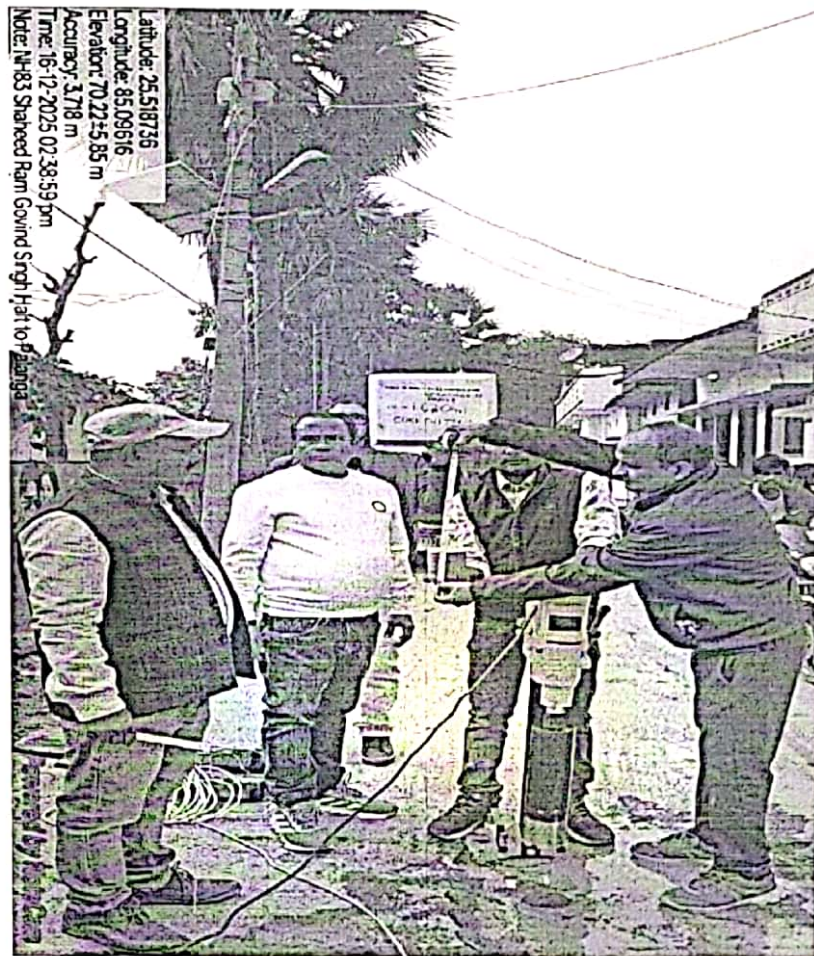
Prescribed By:

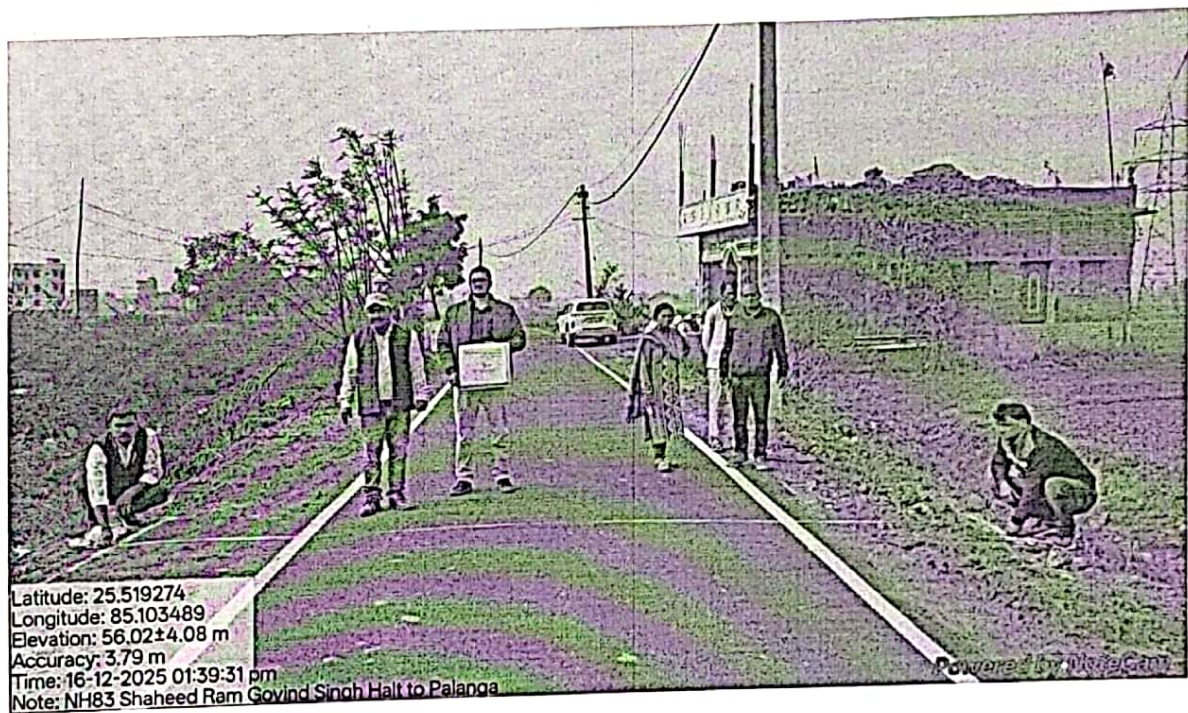
Bihar Rural Roads development Agency

(An Agency of the Ministry of Rural Development)

Government of Bihar.







# Quality Control Register Part 1

## Record of Tests

### Fly Sheet

State: — Bihar

District: — Patna

Block: — Phulwari sharif

Package Number: — RR SMP/2024-25/Danapur/04

Agreement No — 06/CMBD/2025-26

|                                             |                                                                                                                                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name of Road                                | : NH-83 Sahid Ramgoring Singh<br>Halt to Palanga.                                                                                                      |
| Length (km)                                 | : 2.400 K.m.                                                                                                                                           |
| Contract Amount (Rs.)                       | : 206.484 Lacs                                                                                                                                         |
| Construction Contractor<br>(Name & Address) | : Parmarand, Neer Gagan, and Arjun (J.V)<br>Anand Mani Niwas<br>Patel Chowk, Road no-04<br>East of Bishop Scott Girls School<br>New Jagannpura, Patna. |
| Date of Commencement of<br>Work             | : 26 August 2025                                                                                                                                       |
| Stipulated Date of Completion               |                                                                                                                                                        |
| (a) As per Agreement                        | : 25 August 2024                                                                                                                                       |
| (b) As Revised & Agreed                     | :                                                                                                                                                      |
| Project Implementation Unit<br>(Address)    | : E.E R.W.D(W) Div Danapur                                                                                                                             |
| Laboratory Incharge (Name)                  | :                                                                                                                                                      |
| This Register                               | : From km. 0.0 to km. 2.400 K.m.                                                                                                                       |

**सहायक अभियंता का कार्यालय**  
**ग्रामीण कार्य विभाग, जाँच एवं गुणवत्ता नियंत्रण प्रयोगशाला, दानापुर।**  
E-Mail- ae.rwdlabdanapur@bihar.gov.in, aerwdqcdanapur@gmail.com (Mobile No.- 9296797321)

पत्रांक - 107 / दानापुर, दिनांक- 17/12/25

प्रेषक,

ई0 अनिल कुमार  
सहायक अभियंता  
ग्रामीण कार्य विभाग  
जाँच एवं गुणवत्ता नियंत्रण प्रयोगशाला,  
दानापुर।

सेवा में,

सहायक अभियंता,  
ग्रामीण कार्य विभाग,  
कार्य अवर प्रमण्डल,  
फुलवारीशरीफ।

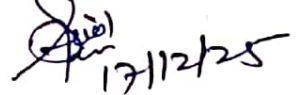
विषय:- प्रखण्ड- फुलवारीशरीफ में RRSMP अन्तर्गत निर्माणाधीन पथ की गुणवत्ता जाँच के संबंध में।

प्रसंग:- आपका पत्रांक..... 85 दिनांक- 10/12/25  
महाशय,

उपर्युक्त विषय के संबंध में कहना है कि प्रखण्ड- फुलवारीशरीफ में RRSMP अन्तर्गत पथ NH-83 शहीद रामगोविंद सिंह हॉल्ट से पलंगा हॉल्ट का गुणवत्ता जाँचकर जाँचफल प्रतिवेदन इस पत्र के साथ संलग्न कर आवश्यक कार्रवाई हेतु भेजी जा रही है।

अनु0:- यथोक्त।

विश्वासभाजन

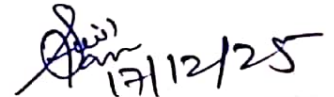
 17/12/25

सहायक अभियंता  
ग्रामीण कार्य विभाग  
जाँच एवं गुणवत्ता नियंत्रण प्रयोगशाला,  
दानापुर।

/ पटना, दिनांक- 17/12/25

ज्ञापांक:- 107

प्रतिलिपि:- कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमण्डल, दानापुर को सूचनार्थ एवं आवश्यक कार्रवाई हेतु समर्पित।

 17/12/25

सहायक अभियंता  
ग्रामीण कार्य विभाग  
जाँच एवं गुणवत्ता नियंत्रण प्रयोगशाला,  
दानापुर।

Mayuri Dhar  
17.12.25