

Rural Works Department, Govt. of Bihar



Welcome:-Admin  
Wing:-HQ  
Circle:-HQ  
Division:-HQ  
No Of Visit:-

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- Flood/Rain Damage Roads   Poorak Core Network   Crash Inspection   Contractor   Emergent Repair   Offline Black List Entry   User Registration   Maintenance Allotment   Road / Bridge Allotment   Maintenance Observation   Offline Inspection   Left Habitation Survey   Routine Inspection   Bridge Aproach   CM Janta Darbar   Random List   POP

Report

Wing

Circle

Division

Select User

Month

Observation Year

ALL Road/ ATR Road

CE-3, Patna

Samastipur

Dalsinghsarai

IE

All

::ALL::

ATR Roads

Observation Date

From Date

To Date

Get Data

SINo	IE	ATR No	Division	RoadName	Date	Circle	Status At Observation	Current Work Status	Select
26	IE0045VIKAS		Dalsinghsarai	T03 MDR to Muslim Tola	08-Oct-2020	Samastipur	On-going	On-going	<input type="radio"/>
27	IE0126SAURABH		Dalsinghsarai	S045 to Ram Tola Mayari	12-Feb-2021	Samastipur	On-going	On-going	<input type="radio"/>
28	IE0123NITISH		Dalsinghsarai	L036 to Chamar Tola	17-Mar-2021	Samastipur	On-going	On-going	<input type="radio"/>
29	IE0123NITISH	7251	Dalsinghsarai	Kali Mandir Nikaspur to Nikaspur Kurmi Tola	21-Mar-2021	Samastipur	On-going	On-going	<input type="radio"/>
30	IE0148NEYAZ		Dalsinghsarai	S033 to Kushwaha Tola	18-Jun-2021	Samastipur	On-going	Complete	<input type="radio"/>
31	IE0148NEYAZ	7367	Dalsinghsarai	NH28 T03 to Chanchar Ramnagar Kushwaha Tola	19-Jun-2021	Samastipur	On-going	On-going	<input type="radio"/>
32	IE0148NEYAZ	7375	Dalsinghsarai	PMGSY Road Chanchar Pathan Tola to Janakpur Mukhiya Tola	22-Jun-2021	Samastipur	On-going	Complete	<input checked="" type="radio"/>
33	IE0107MD		Dalsinghsarai	Bedulla Chowk to Mahadalit Tola	25-Jun-2021	Samastipur	On-going	On-going	<input type="radio"/>
34	IE0107MD	7401	Dalsinghsarai	Ramniwas Tola to Kushwahab Tola	25-Jun-2021	Samastipur	On-going	On-going	<input type="radio"/>
35	IE0089INDRAJEET		Dalsinghsarai	Ramniwas Tola to Hajjam Tola	22-Jul-2021	Samastipur	On-going	On-going	<input type="radio"/>
36	IE0089INDRAJEET		Dalsinghsarai	S017 to Paswan Tola	23-Jul-2021	Samastipur	On-going	Complete	<input type="radio"/>
37	IE0121RAHUL	7686	Dalsinghsarai	T03 MDR to Harijan Tola	12-Aug-2021	Samastipur	Complete	Complete	<input type="radio"/>
38	IE0142ROHIT	7704	Dalsinghsarai	Karihara Road to Yadav Tola	15-Aug-2021	Samastipur	Complete	Complete	<input type="radio"/>
39	IE0121RAHUL		Dalsinghsarai	L076 to Chakmahda	29-Aug-2021	Samastipur	On-going	Complete	<input type="radio"/>
40	IE0138RISHAV	7902	Dalsinghsarai	Subhan Chak to Bhumiyar Tola	22-Sep-2021	Samastipur	On-going	On-going	<input type="radio"/>
41	IE0138RISHAV		Dalsinghsarai	Rama Chowk to Chak Nizamata	25-Sep-2021	Samastipur	On-going	On-going	<input type="radio"/>

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Detail Report

Date of Inspection	22-Jun-2021				
Name of IE/PQM	IE0148NEYAZ				
Circle	Samastipur	Division	Dalsinghsarai	Block	Ujiarpur
Name of Road	PMGSY Road Chanchar Pathan Tola to Janakpur Mukhiya Tola				
Scheme	MMGSY[SC]				
Length in Flexible Pavement	0.45000	CC/Other Pavement (Km)	0.34600	Total (Km)	0.79600
Estimated Cost	44.33506				
Cost Upon Completion	28.872980				
The work is a case of(New Connectivity/ Up Gradation)	New Connectivity				
Actual Date of Completion	08/06/2021				
ATR Number	7375				

**1. QUALITY ARRANGEMENTS-OBSERVATIONS :**

Observations - Item1: Quality Arrangements

#	Whether Field laboratory Established (Y/N/NA)	Whether necessary Equipments available (Y/N/NA)	Whether Equipments have been used (Y/N/NA)
1	Yes	Yes	Yes

Quality Arrangement Grading:

Grade: S/SRI/U/NA	If this item is graded RI/U write clear reasons and suggestions for improvement:
S	satisfied

**2. ATTENTION TO QUALITY:**

Observations – Item 2a: Maintenance of QC Registers:

#	Based on executed quantities whether all mandatory tests conducted(Yes/Partly/No)	Whether QC Register Part I maintained as per provisions(Yes/Partly/No)	Whether QC Register Part II maintained and test results monitored as per provisions.(Yes/Partly/No)
1	Yes	Yes	Yes

Item No:- 2a. Maintenance of QC Register Grade

Grade: S/SRI/U/NA	If this item is graded RI/U write clear reasons and suggestions for improvement:
S	satisfied

Observations – Item 2b: Verification of Test Results (P – conforms, F – does not conform):

#	Name of Test	Results of the test conducted by IE/PQM at a defined location. (P/F)	Test result as per QC Register at the same location. (Mention the page No. of QC Register also) (P/F)	Whether the test results recorded in QC register found correct? (Y/N/NA)
1	soil compaction	N/A	68	Yes

Item No:- 2b.Verification of Test result Grade:

Grade: S/SRI/U/NA	If this item is graded RI/U write clear reasons and suggestions for improvement:
NA	Embankment is Brick soling

**3. GEOMETRICS: At-least two measurements in 1 km length and if it is found that the roadway and carriageway is inadequate IE/PQM may take more observations:**

Observation – Item 3 a, b and c: Road way width, Carriage and Camber.

Reference Road	Roadway Width (m)	Carriageway Width (m)	Camber Percentage(%)
225m	6	3.75	0.00

Item No:- 3a. Road way width Grade

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	Shoulder work is goingon

Item No:- 3b. Carriage Way Width Grade

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	satisfied

Item No:- 3c. Camber Grade

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	work is goingon

Observation – Item 3 d: Super elevation and Extra Widening at curves.

Reference Road	Super Elevation	Extra Widening provided (Y/N/NA)
0.00	0.00	N/A

Item No:- 3d. Super Elevation and extra widening at curves Grade:

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	No superelevation

**Observation – Item 3 e: Longitudinal Gradient in case of road in hilly/rolling terrain:**

Ref. Between RD1	and RD2	Longitudinal Gradient	S/U/NA
0.00	0.00	0.00	S

**Item No:- 3e. Longitudinal Gradient in case of road in hilly rolling terrain Grade:**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	No hilly road

**4. OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:****Observations – Item 4 a Quality of Material for Embankment/ Sub-grade:**

#	Location (RD)	On Visual Classification identify the Groups Symbol and write	Quality of material is acceptable. (Y/N/NA)
1	205m	Sandy clay soil	N/A

**Item No:- 4a. Quality of material for Embankment/SubGrade Grading**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	Embankment is Brick soling

**Observation – Item No. 4 b: Workmanship for Embankment and Sub-grade Construction**

#	Location (RD)	MDD KN/m3 (As per record)	Field Moisture Content	Degree of Compaction		
				Field Density kN/m3	Dry Density kN/m3	Compaction adequate. (Y/N/NA)
1	0.00	0.00	0.00	0.00	0.00	N/A

**Item No:- 4b. Compaction Grading**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	Embankment is Brick soling and shoulder work is going on

**Observation – Item No. 4 c, Side slopes and profile:**

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N/NA)	Whether profile is Satisfactory (Y/N/NA)
1	0.00	N/A	N/A

**Item No:- 4c. Grading**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	No slide slope

**Observation – Item No. 4 d and e, Earth work in Hilly/Rolling terrain or high Embankments:**

#	Location (RD)	Cut slopes & profiles, whether appears to be stable. (Y/N/NA)	Adequate slope protection works executed. (Y/N/NA)	Formation is properly dressed and traffic worthy. (Y/N/NA)
1	0.00	N/A	N/A	N/A

**Item No:- 4d. Stability and workmanship of cut slopes(in case of hilly/rolling terrain) Grade**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	No hilly road

**Item No:- 4e. Adequacy of slope protection (in case of high embankments/hilly/rolling terrain) Grade:**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	No hilly road

**5. SUB-BASE****Observations- Item No. 5 a,b,c and d, Quality of Material and workmanship:**

#	Location (RD)	Confirms to Grading. (Y/N)	Suitable from plasticity angle. (Y/N/NA)	Whether compaction is adequate. (Y/N/NA)	Observed Thickness of Layer (in mm)	Prescribed Thickness provided (Y/N/NA)
1	205m	N/A	N/A	N/A	85	N/A

**Item No:- 5a. Grain Size Grade:**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
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U	Grain size stone not available
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**Item No:- 5b. Plasticity Grade**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
U	not fine

**Item No:- 5c. Compaction Grade:**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
U	not fine

**Item No:- 5d. Total Thickness of Layer Grade**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
U	Thickness is less as per DPR provision

**6. BASE COURSE- WATER BOUND MACADAM**

Observations- Item No. 6 a, b, c and d, Quality of Material and Workmanship of WBM:

#	Location (RD)	Thickness of each layer of WBM (mm)	Thickness is adequate. (Y/N/NA)	Aggregate confirms to Grading (Y/N/NA)	Filler material is non-plastic to desired extent. (Y/N/NA)	Volume of filler material percent of course aggregate	Whether adequate compaction is done. (Y/N/NA)
1	205m	75	N/A	N/A	N/A	0.00	N/A

**Item No:- 6a. Grain Size of Course Aggregate used as fillers Grade:**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
U	Grain size as per DPR provision not available

**Item No:- 6b. Plasticity of Crushable Aggregate used as fillers Grade:**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
U	not fine

**Item No:- 6c. Adequacy of Compaction through volumetric analysis Grade:**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
U	grade is not available

**Item No:- 6d. Thickness of every layer of WBM Grade:**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
U	not good

**7. BITUMINOUS LAYER-PREMIX CARPET(PMC)/SURFACE DRESSI**

Bituminous Course: Premix Carpet/Surface Dressing etc including Seal Coat: Observations- Item No. 7 a, b, c, Quality of Material and Workmanship of BT Layer :

#	Location (RD)	Whether Course Aggregate confirms to grading. (Y/N/NA)	Whether the binder is of approved grade. (Y/N/NA)	Write Mixing Temperature and whether it is in permissible limits (Y/N/NA)	Write Laying Temperature and whether it is in permissible limits (Y/N/NA)
1	0.00	N/A	N/A	N/A	N/A

**Item No:- 7a. Gradation of Aggregate Grade**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	BT work isn't started

**Item No:- 7b. Mixing Temperature of Mix. Grade**

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	BT work isn't started

**Item No:- 7c. Laying Temperature of Mix. Grade**



Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	BT work isn't started

## Observations- Item No. 7 d and e, Workmanship of BT layer :

#	Location (RD)	Thickness		Whether surface evenness is within acceptable Limits. (Y/N/NA)
		Thickness in mm	Whether thickness is adequate. (Y/N/NA)	
1	0.00	0.00	N/A	N/A

## Item No:- 7d. Thickness of Layer Grade:

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	BT work isn't started

## Item No:- 7e. Grading-Surface Evenness

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	BT work isn't started

## 8. SHOULDER

## Observations- Item No. 8 a and b, Quality of Shoulders :

#	RD of Observation	Whether general quality of the material is acceptable. (Y/N/NA)	Whether general quality of workmanship is acceptable. (Y/N/NA)	Whether Camber in Shoulders is adequate (Y/N/NA)
1	0.00	N/A	N/A	N/A

## Item No:- 8a. Grading- Quality of material for shoulders

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	work is going on

## Item No:- 8b. Grading- Degree of compaction

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	work is going on

## Item No:- 8c. Grading- Camber

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	work is going on

## 9. CROSS DRAINAGE WORKS: Observations Item No. 9 a and b, Quality of CDs:

#	RD at which CD is located	Type of CD	Whether general quality of the material is acceptable. (Y/N/NA)	Whether general quality of workmanship is acceptable. (Y/N/NA)
1	Ch.695m	Hume Pipe Culvert 1000mmdia	Yes	Yes

## Item No:- 9a. Grading-Quality Of Material - Concrete, Stone/brick, masonry, Hume pipe including size etc.

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	satisfied

## Item No:- 9b. Grading-Quality Of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	satisfied

## 10. SIDE DRAIN AND CATCH WATER DRAIN:

## Side Drainage Works: Observations Item No. 10 a and b, Quality of CDs:

#	Reference of RDs where side drain constructed.	RD at which observation made.	Whether general quality of the side drains/ catch water drains is acceptable.(Y/N/NA)	Whether side drains are integrated to cross drains. (Y/N/NA)
1	0.00	0.00	N/A	N/A

Item No:- 10a. General quality of Side Drains/Catch Water Drains and their integration with CDs Grade:

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	No side Drain

11. CC/SEMI-Rigid (SR) Pavements and Associated Pucca Side Drains: Item No. 11 a, b, c and d:

#	Reference of RDs, CC/SR Pavements provided.	RD at which observation made	Thickness		General quality of material is acceptable. (Y/N/NA)	General quality of workmanship is acceptable. (Y/N/NA)
			Thickness in mm	Acceptable (Y/N/NA)		
1	0-346m	150m	160	Yes	Yes	Yes

Item No:- 11a. Grading-Quality of Material - Concrete, Stone/Concrete Block Pavement etc.

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	satisfied

Item No:- 11b. Grading-Strength of CC in Concrete Pavement/Concrete Block Pavement

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	satisfied

Item No:- 11c. Grading-Quality of Workmanship - Wearing surface texture,Adequacy of setting of concrete,joints,edges etc.

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	satisfied

Item No:- 11d. Grading-Thickness of Layer

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	satisfied

**12. ROAD FURNITURE AND MARKINGS**

Observations – Item No. 12 a: Quality Road Furniture and Markings :

Main Informatory Board Fixed: Yes

Citizen Information Board Fixed: Yes

Item No:- 12a. Grading-Citizen information board, Main informatory Board,Quality and whether fixed during construction.

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	good

Item No:- 12b. Grading-Logo boards, 200m stones and stones, quality and whether fixed after completion.

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
NA	Only One Nos Logo Board Fixed

Item No:- 12c. Grading-Whether the information in boards is given in local language.

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
S	good

Observations – Item No. 12 b: Quality Road Furniture and Markings :

i. Logo Board Fixed: N/A

ii. 200m. Stones fixed: N/A

iii. 1 Km. Stone fixed: N/A

iv. Guard Stones fixed on Curves: N/A

v. Mandatory and Cautionary Signage N/A

Grading

Grade: S/U/NA	If this item is graded U write clear reasons and suggestions for improvement:
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Quality Grading of item and sub-items of work: The grading of every sub-item and item of work is given below

#	Sub item for observation	In case of Work	Awardable Grades	Awarded Grade
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1	2	3	4	5
Item 1 – Quality Arrangement				
a	Quality Arrangement	On-going	S/SRI/U/NA	S
b	Item Grading		S/SRI/U/NA	S
Item 2 – Attention to Quality				
a	Maintenance of QC Register	On-going	S/SRI/U/NA	S
b	Verification of test result	On-going/Complete	S/U/NA	NA
b	Item Grading		S/SRI/U/NA	S
Item 3 – Geometrics				
a	Road way width	Ongoing or Complete	S/U/NA	NA
b	Carriageway width		S/U/NA	S
c	Camber		S/U/NA	NA
d	Super elevation & Extra Widening at Curves		S/U/NA	NA
e	Longitudinal Gradient in case of road in hilly/ rolling terrain	Ongoing or Complete	S/U/NA	NA
	Item Grading		S/U/NA	S
Item 4 – Earth Work and Sub-grade in Embankment/ Cutting				
a	Quality of Material for Embankment/ Sub-grade	Ongoing or Complete	S/U/NA	NA
b	Compaction		S/U/NA	NA
c	Side Slopes and Profile	Complete	S/U/NA	NA
d	Stability and Workmanship of Cut Slopes (in case of hilly/ rolling terrain)	Ongoing or Complete	S/U/NA	NA
e	Adequacy of slope protection ( in case of high embankments/hilly/rolling terrain)		S/U/NA	NA
b	Item Grading		S/SRI/U/NA	
Item 5 – Sub-Base				
a	Grain Size	Ongoing or Complete	S/U/NA	U
b	Plasticity		S/U/NA	U
c	Compaction		S/U/NA	U
d	Total Thickness of Layer	Ongoing or Complete	S/U/NA	U
	Item Grading		S/U/NA	U
Item 6 – Base Course – Water Bound Macadam				
a	Grain Size of Course Aggregate	Ongoing or Complete	S/U/NA	U
b	Plasticity of Crushable Aggregate used as fillers		S/U/NA	U
c	Adequacy of Compaction through volumetric analysis		S/U/NA	U
d	Thickness of every layer of WBM		S/U/NA	U
b	Item Grading		S/SRI/U/NA	U
Item 7 – Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)				
a	Gradation of Aggregate	Ongoing	S/U/NA	NA
b	Mixing Temperature of Mix	Ongoing	S/U/NA	NA
c	Laying Temperature of Mix	Ongoing	S/U/NA	NA
d	Thickness of layer	Ongoing or Complete	S/U/NA	NA
e	Surface Evenness	Ongoing or Complete	S/U/NA	NA
b	Item Grading		S/SRI/U/NA	
Item 8 – Shoulders				
a	Quality of material for shoulders	Complete	S/SRI/U/NA	NA
b	Degree of compaction	Complete	S/SRI/U/NA	NA
c	Camber	Complete	S/SRI/U/NA	NA
	Item Grading		S/SRI/U/NA	
Item 9 - Cross Drainage Works				
a	Quality of Material – Concrete, Stone/Brick masonry, Hume pipe including size etc	Ongoing or complete	S/SRI/U/NA	S
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc		S/SRI/U/NA	S
	Item Grading		S/SRI/U/NA	S
Item 10 - Side Drain and Catch Water Drain				
	General quality of Side Drains/ Catch Water Drains and their integration with CDs	Ongoing or complete	S/SRI/U/NA	NA
b	Item Grading		S/SRI/U/NA	
Item 11 - CC/ Semi Rigid Pavements and Associated Pucca Drains				

a	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.	Ongoing or complete	S/U/NA	S
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement		S/U/NA	S
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc		S/U/NA	S
d	Thickness of Layer		S/U/NA	S
	Item Grading		S/U/NA	S
Item 12 - Road Furniture and Markings				
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction	Ongoing	S/U/NA	S
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Ongoing	S/U/NA	NA
c	Whether the information in boards is given in local language	Ongoing	S/U/NA	S
	Item Grading		S/U/NA	S

Overall Grading of Work: The overall grading calculated on the basis of item and sub-item wise grading is given below:

#	Item	Awarded Grade
1	Quality Control Arrangements	S
2	Attention to Quality	S
3	Geometrics	S
4	Earthwork and Sub-grade in Embankment/Cutting	
5	Sub-base	U
6	Base Course Non-Bituminous and shoulders	U
7	Bituminous Surfacing	
8	Shoulders	
9	CD Works	S
10	Side Drains and Catch Water Drains	
11	CC/Semi-Rigid Pavement and Associated Pukka Drains	S
12	Road Furniture and Markings	S
Overall Grading		UnSatisfactory
Final Remarks		CC Pavement and WBM grade 3 work is in progress



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Ch.0,0m Citizen Information Board



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CH.0,0m Main Informatory Board



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Ch.105m, Carriage width



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[2021/RoadObservationImageFile/Dalsinghsarai/2021/June/29505/4.JPG](#)

Ch.0,0m Only Onle Logo Board



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Ch.205m, GSB Grade 01 Thickness



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Ch.205m, GSB Grade 01 seive analysis



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Ch.695m, Hume Pipe Culvert 1000mm dia



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[2021/RoadObservationImageFile/Dalsinghsarai/2021/June/29505/5.JPG](#)

Ch.205m, Thickness of WBM grade 3



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Ch.205m, WBM grade 3



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Ch.390m, General View Of WBM grade 3 Road



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Ch.615m, CC Pavement Camber



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[2021/RoadObservationImageFile/Dalsinghsarai/2021/June/29505/6.JPG](#)

Ch.205m, WBM grade 3 analysis



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Ch.450m, General view of WBM grade 3 road



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Ch.405m, General view of WBM grade 3 road



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Ch.150m, CC Pavement Thickness



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Ch.225m Carriage width



30 June 2021 11:25 AM

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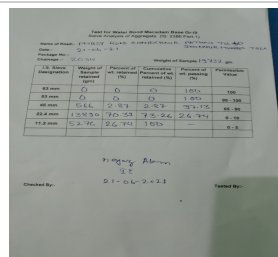
Ch.305m, General View Of WBM grade 3 Road

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Ch.790m, General View Of CC Pavement

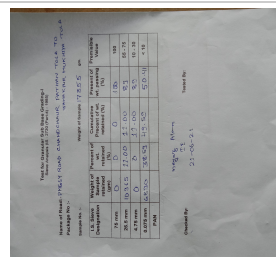
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Ch.405m, Field Laboratory



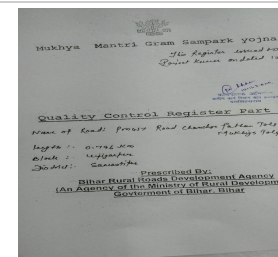
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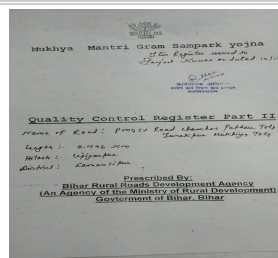
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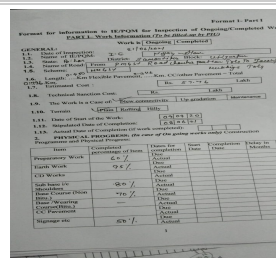
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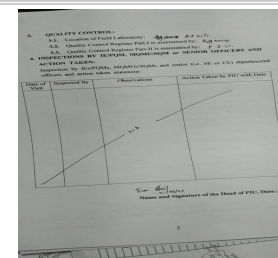
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