

Rural Works Department, Govt. of Bihar



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Report

Wing Circle Division Zone Select User Month Observation Year ALL Road/ ATR Road

-- All -- All -- All -- Zor IE All -::ALL::- All Roads

Observation Date

From Date



To Date



Get Data

Date of Inspection		IESimriBakhtiyarpur			
Name of IE/PQM		Iesimribakhtiyarpur			
Circle	Saharsa	Division	Simri Bakhtiyarpur	Block	Sonbarsa
Name of Road	BASNAHI TO RAMANA VIA TARARAH I HATHI KARNA				
Scheme	MMGSY[SC]				
Length in Flexible Pavement		CC/Other Pavement (Km)		Total (Km)	
Estimated Cost	282.691900				
Cost Upon Completion	230.067560				
The work is a case of(New Connectivity/ Up Gradation)					
Actual Date of Completion	29/09/2017				
ATR Number	284				
Physical Status Of Road					

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	N	N	N

Quality Arrangement Grading:

Grade: S/SRI/U/NA	If this item is graded RI/U write clear reasons and suggestions for improvement:
U	Not field laboratory n equipment present though by contractor nobody on site

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	Y	Y	Y

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:
NA	

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)

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	

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(%)
50m	5.00	4.1	0.05

200m	5.5	4.1	0.1
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Item No:- 3a. Road way width Grade

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

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:
S	Satisfied

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

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

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

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

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

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

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)

Item No:- 4b. Compaction Grading

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

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)
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Item No:- 4c. Grading

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

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)
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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	

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	

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

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

Item No:- 5b. Plasticity Grade

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

Item No:- 5c. Compaction Grade:

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

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:
NA	

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)
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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:
NA	

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:
NA	

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:
NA	

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:
NA	

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

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)

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	

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	

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	

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)	

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	

Item No:- 7e. Grading-Surface Evenness

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

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)
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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:

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

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

Item No:- 8c. Grading- Camber

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

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

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#	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	2250m	RCC Culvert (1×2.0×1.5)m	Y	Y
2	2500m	Hume pipe 1000mm dia	Y	Y

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:
NA	

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:
NA	

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)
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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	

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	CC	1800m	190	Y	Y	Y

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:
NA	

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:
NA	

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:
NA	

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

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

12. ROAD FURNITURE AND MARKINGS

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

Main Informatory Board Fixed: **Y**

Citizen Information Board Fixed: **N**

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:
NA	

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:

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
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	improvement:
NA	

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

- i. Logo Board Fixed: **N**
- ii. 200m. Stones fixed: **N**
- iii. 1 Km. Stone fixed: **N**
- iv. Guard Stones fixed on Curves: **N**
- v. Mandatory and Cautionary Signage **N**

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
1	2	3	4	5
Item 1 – Quality Arrangement				
a	Quality Arrangement	On-going	S/SRI/U/NA	U
b	Item Grading		S/SRI/U/NA	U
Item 2 – Attention to Quality				
a	Maintenance of QC Register	On-going	S/SRI/U/NA	NA
b	Verification of test result	On-going/Complete	S/U/NA	NA
b	Item Grading		S/SRI/U/NA	
Item 3 – Geometrics				
a	Road way width	Ongoing or Complete	S/U/NA	S
b	Carriageway width		S/U/NA	S
c	Camber		S/U/NA	S
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	
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	NA
b	Plasticity		S/U/NA	NA
c	Compaction		S/U/NA	NA
d	Total Thickness of Layer	Ongoing or Complete	S/U/NA	NA
	Item Grading		S/U/NA	
Item 6 – Base Course – Water Bound Macadam				
a	Grain Size of Course Aggregate	Ongoing or Complete	S/U/NA	NA
b	Plasticity of Crushable Aggregate used as fillers		S/U/NA	NA
c	Adequacy of Compaction through volumetric analysis		S/U/NA	NA
d	Thickness of every layer of WBM		S/U/NA	NA
b	Item Grading		S/SRI/U/NA	
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	
b	Degree of compaction	Complete	S/SRI/U/NA	
c	Camber	Complete	S/SRI/U/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	NA
b	Quality of Workmanship such as positioning of		S/SRI/U/NA	NA

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

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	U
2	Attention to Quality	
3	Geometrics	S
4	Earthwork and Sub-grade in Embankment/Cutting	
5	Sub-base	
6	Base Course Non-Bituminous and shoulders	

7	Bituminous Surfacing	
8	Shoulders	
9	CD Works	
10	Side Drains and Catch Water Drains	
11	CC/Semi-Rigid Pavement and Associated Pukka Drains	
12	Road Furniture and Markings	
	Overall Grading	Satisfactory But Required Improvment
	Final Remarks	Basnahi to ramana via tararahi hati karna road length 4.300km session 2015-16 work status PCC 800m work completed 3 piece RCC Culvert completed n 2 piece Hume pipe completed left BT Provision GSB some work n some work Grade (2) or (3) but I can't che

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