

Format 1- Part I

Format for information to SQM for Inspection of PMGSY Work

PART I- Work Information (To be filled-up by PIU)

GENERAL:

- Work is ☒ Going ☐ Completed
- 1.1. Date of Inspection: DD MM YY
 28 12 18
- 1.2. Name of State Quality Monitor: Er. Sunil Kumar Singh.
- 1.3. District: KATIHAR Block: BARSOI
- 1.4. Name of Road: From L156 - JATAHAR to BASANTPUR MILIKPUR (UR57)
- 1.5. Package No.: BR16R2741
- 1.6. Length: 0.55 Km Flexible Pavement, 0.19 Km. CC/other Pavement ...m.
 = Total: 0.65 Km
- 1.7. Estimated Cost (As cleared by GOI): Rs. 35.14 Lakh
- 1.8. Technical Sanction Cost: Rs. 35.04 Lakh
- 1.9. The Work is a Case of: ☒ New connectivity ☐ Up gradation
- 1.10. Terrain ☒ Plain ☐ Rolling ☐ Hilly
- 1.11. Date of Start of the Work: 07 02 18
- 1.12. Stipulated Date of Completion: 06 02 19
- 1.13. Actual Date of Completion (if work completed):
2. PHYSICAL PROGRESS: (In case of On going works only) Construction Programme and Physical Progress:

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	100%	Due			
		Actual			
CD Works	NIL	Due			
		Actual			
Sub base i/c Shoulders	80%	Due			
		Actual			
Base Course (Non Bitu.)	100%	Due			
		Actual			
Base /Wearing Course (Bitu.)	100%	Due			
		Actual			
CC Pavement	100%	Due			
		Actual			
Signage etc	80%	Due			
		Actual			

3. QUALITY CONTROL:

3.1. Location of Field Laboratory: 0.500 km of site

3.2. Quality Control Register Part-I is maintained by: Contractor

3.3. Quality Control Register Part-II is maintained by: PIU

4. INSPECTIONS BY NQM, SQM or SENIOR OFFICERS AND ACTION

TAKEN:

Inspection by NQMs, SQMs and senior (i.e. SE or CE) departmental officers and action taken statement:

Date of Visit	Inspected By	Observations	Action Taken by PIU with Date
27/07/18	Sri Kedar Nath Verma (S&M)	Satisfactory	- NA -

Qm $\frac{28}{12} \frac{18}{Na}$
AE

Name and Signature of the Head of PIU, Date:

4
Date:
028/11/11

Format 1- Part II

Report of State Quality Monitor (SQM)
PART II- Observations of SQM for Ongoing/Completed Work

(To be filled-up by SQM, use additional sheets, if required.)

Stage of Work: ☐ I ☐ II ☐ III

1. SETTING OUT AND WORKING DRAWING: For all stages of work

#	Whether Bench marks @ 4 per km established (Y/N)	Exact Locations of the Bench Marks	Whether Center Line of Carriage Way accurately established and referenced with Marker Pegs and Chainage Boards (Y/N)	Whether properly prepared Working Drawing for the work under progress is available (Y/N)
	Y	0.00	Y	Y

Grading: Grade: ☒ S ☐ SRI ☐ U If this item is graded SRI/U, write clear reasons and Suggestions for improvement:

'S'

2. SITE CLEARANCE AND GRUBBING: For Stage I of Work

#	Whether Clearing and Grubbing being done as per DPR and Material obtained is being disposed off properly (Y/N)	Whether the material available from scarifying existing work or clearing operations can be salvaged and reused (Y/N)	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.
	Y	Y	

Grading: Grade: ☒ S ☐ SRI ☐ U If this item is graded SRI/U, write clear reasons and suggestions for improvement:

'S'

Observations about Field Laboratory:

Observations about Mandatory Tests - Detail out the quantities of various items of works and list the tests required. (Refer to abstract of QC Register Part-I)

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

Scanned by CamScanner

4. GEOMETRICS: The SQM should take at-least two measurements in 1 Km length and if it is found that the roadway and carriageway is inadequate SQM may take more observations:

Observations –Road way width, Carriage way and Camber.

Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %	Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %
240	6.00	3.75	3.5%				
270	6.00	3.75	2.5%				

Observations – Super-elevation and Extra Widening at curves.

Ref. RD	Super Elevation	Extra Widening provided (Y/N)	Ref. RD	Super Elevation	Extra Widening provided (Y/N)
75 m	5.4 %	Y			

Grade: ☒ S ☐ U

If this item is graded U, write clear reasons and suggestions for improvement:

'S'

5. OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORKS.

Earthwork:

Observations –Quality of Material for Embankment/ Sub-grade:

#	Location (RD)	On Visual Classification identify the Group Symbol and write	Quality of material is acceptable. (Y/N)
		M-A -	

Grade:	<input checked="" type="checkbox"/> S	<input type="checkbox"/> U	If this item is graded U, write clear reasons and Suggestions for improvement:
M.A.			

Observation – Workmanship for Embankment and Sub-grade Construction:

#	Location (RD)	MDD KN/m ³ (As per record)	Field Moisture Content	Degree of Compaction		
				Field Density KN/m ³	Dry Density KN/m ³	Compaction adequate. (Y/N)
				M.A.		

Grade:	<input checked="" type="checkbox"/> S	<input type="checkbox"/> U	If this item is graded U, write clear reasons and suggestions for improvement:
M.A.			

Observation – Side slopes and profile:

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)
		work is in progress.	

Observations - Earth work in Hilly/Rolling terrain or high Embankments:

#	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	Adequate slope protection works executed. (Y/N)	Formation is properly dressed and traffic worthy. (Y/N)
		M. A		

Observations - Longitudinal Gradient in case of road in hilly/rolling terrain:

Ref. Between RD...& RD...	Longitudinal Gradient	S/U	Ref. Between RD...& RD...	Longitudinal Gradient	S/U
		M. A			

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

M. A

6. Sub-Base:

Observations - Quality of Material and Workmanship:

Q.S.P

#	Location (RD)	Confirms to Grading. (Y/N)	Suitable from plasticity angle. (Y/N)	Whether compaction is adequate. (Y/N)	Observed Thickness of Layer (in mm)	Prescribed Thickness provided (Y/N)
	97M	Y	-	Y	200	Y

Observations - Earth work in Hilly/Rolling terrain or high Embankments:

#	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	Adequate slope protection works executed. (Y/N)	Formation is properly dressed and traffic worthy. (Y/N)

Observations - Longitudinal Gradient in case of road in hilly/rolling terrain:

Ref. Between RD...& RD...	Longitudinal Gradient	S/U	Ref. Between RD...& RD...	Longitudinal Gradient	S/U

Grade: ☐ S ☐ U

If this item is graded U, write clear reasons and suggestions for improvement:

6. Sub-Base:

Observations - Quality of Material and Workmanship:

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

Grade: ☒ S ☐ U

If this item is graded U, write clear reasons and suggestions for improvement.

7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

#	Location (RD)	Thickness of each layer of WBM (mm)	Thickness is adequate. (Y/N)	Aggregate confirms to Grading (Y/N)	Filler material is non-plastic to desired extent. (Y/N)	Volume of filler material percent of course aggregate	Whether adequate compaction is done. (Y/N)
	97..	75	Y	Y	Y		Y

Observations - Surface evenness: Surface evenness in about 200 m critical representative length of completed WBM:

Grade: ☒ S ☐ U

If this item is graded U, write clear reasons and suggestions for improvement:

8. Bituminous Course: Premix Carpet/Surface Dressing/ BM/ MPM etc including Seal Coat: Observations - Quality of Material and Workmanship of BT Layer (in case of ongoing works):

Observations about level of cleanliness of WBM surface prior to application of bituminous layer. (if work is ongoing observe the surface. If BT layer laid, assess by carefully removing the BT layer.):

M.1

Observations about Quality of Prime Coat and Tack Coat with respect to quality of material and workmanship - Visual Observation - if work is ongoing:

In case of PMC/BM/MPM/ Seal Coat

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

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

N.A.

Observations - Workmanship of BT layer PMC/BM/MPM (in case of completed works):

#	Location (RD)	Thickness		Whether surface evenness is Within acceptable limits. (Y/N)
		Thickness in mm	Whether thickness is adequate. (Y/N)	
	97	20mm	Y	Y
	270	100mm	Y	Y

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

S

9. Observations - Quality of Shoulders:

#	RD of observation	Thickness of layer in mm	Whether quality of the material is Acceptable. (Y/N)	Whether quality of compaction workmanship is acceptable. (Y/N)	Whether Shoulders being constructed simultaneously with sub-base and base course (Y/N)
			In Progress.		

10. Cross Drainage Works: Observations - Quality of CDs:

#	RD at which CD is located	Type of CD	Whether quality of the Material is acceptable. (Y/N)	Whether quality of workmanship is Acceptable. (Y/N)
		M.A		

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

M.A

11. Side Drains and Catch water Drains: Observations:

#	Reference	Type of CD	Whether quality of the	Whether quality of workmanship is
	RDs where side drain Constructed.	Which Observation made.	Of the Side drains/Catch-water drains is Acceptable.(Y/N)	Are integrated to cross drains. (Y/N)
			M.A	

12. CC/ Semi-Rigid (SR) Pavements and Associated Pucca Side Drains:

#	Reference of RDs, CC/SR Pavements Provided.	RD at which observation on made.	Thickness		General quality of material is Acceptable. (Y/N)	General quality of workmanship acceptable(Y/N)
			Thickness in mm	Acceptable (Y/N)		
			M.A			

Comments about adequacy of face/main walls, wings and retaining walls:

M. H

Grade: ☒ S ☐ U If this item is graded U, write clear reasons and suggestions for improvement:

M. H

13. Road Furniture and Markings

Observations - Item No. 14 a: Quality Road Furniture and Markings:

Main Informatory Board Fixed:

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Citizen Information Board Fixed:

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Grade: ☒ S ☐ U If this item is graded U, write clear reasons and suggestions for improvement:

C S

Observations - Quality Road Furniture and Markings:

13.1.1. Logo Boards Fixed:

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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13.1.2. 200m. Stones fixed:

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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13.1.3. 1 Km. Stone fixed:

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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13.1.4. Guard Stones fixed on Curves:

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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13.1.5. Mandatory and Cautionary Signage

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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Grade: ☐ S ☐ U

improvement:

If this item is graded U, write clear reasons and suggestions for

✓ S

work is in progress -

14. General Observations of SQM, (including the observations made during the interaction with PIU staff and Contractor's/ Consultant's Engineers):

14.1. Observations about deficiency in project preparation (Give detailed observations about deficiencies in general and items which have been left but are required as per site conditions):

14.2. Whether the work has been completed/is in progress as per work programme or the delay has occurred. If delay has occurred, whether the liquidated damages have been withhold or recovered:

14.3. Whether the work has been completed within the sanctioned cost, if not, what is the action taken by the PIU (*in case of complete works*):

14.4. Observations about the action taken by the PIU on the observations of inspecting officers including SQMs and NQMs. (Clearly offer comments about the action taken on the observations of Departmental Officers, State Quality Monitors and National Quality Monitors).

14.5. Comments about difference in observations made by NQMs/SQMs in earlier inspections (the NQM shall study the earlier inspection reports of NQMs / SQMs, if any and offer his clear comments about the differences in observations, if any).

15. Other observations, if any:

16. **Quality Grading of Items and sub-Items of work:** The grading of every sub-item and item of work is given below.

#	Sub Item for Observation	Stage of Work	Awardable Grades	Awarded Grades
1	2	3	4	5
Item 1 – Setting Out and Working Drawing				
a	Bench Mark and Centre Line	All Stages	S/SRI/U	S
b	Availability of Working Drawing	All Stages	S/SRI/U	S
Item Grade			S/SRI/U	S
Item 2 – Site Clearance and Grubbing				
a	Site Clearance and Grubbing	Stage-I	S/SRI/U	S
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	—
Item Grade			S/SRI/U	S
Item 3 – Quality Arrangements				
a	Quality Arrangements	All Stages	S/SRI/U	
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	
c	Maintenance of QC Registers	All Stages	S/SRI/U	
Item Grade			S/SRI/U	
Item 4 – Geometrics				
a	Road way width	2 per Km in every inspection	S/U	S
b	Carriageway width	2 per Km in every inspection	S/U	S
c	Camber	2 per km	S/U	S
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	S
Item Grade			S/U	S
Item 5A – Earth Work and Sub-grade in Embankment/ Cutting				
a	Quality of Material for Embankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U	MH
b	Compaction	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	MH
c	Side Slopes and Profile	2 per km in Stage III	S/U	MH

Item 5B - Earth Work in Cutting in Hilly/ Rolling Terrain				
a	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U	M.A.
b	Adequacy of Slope Protection	All Stages - In general	S/U	M.A.
c	Upon completion of formation cutting, dressing, traffic worthiness	At Stage III, at 2 critical locations with maximum height of cutting in each km	S/U	Nf
d	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	M.A.
Item Grade			S/U	M.A.
Item 6 - Sub-Base				
	Quality of Material			
a	Grain Size	In Stage- II or III, 1 per km	S/U	S
b	Plasticity		S/U	-
c	Compaction	In Stage- II or III, 1 per km	S/U	S
d	Total Thickness of Layer	2 per Km	S/U	S
Item Grade			S/U	S
Item 7 - Base Course – Water Bound Macadam				
a	Grain Size of Course Aggregate	In Stage- II or III, 1 per km	S/U	S
b	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type		S/U	-
c	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per km	S/U	-
d	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/U	S
e	Thickness of every layer of WBM.	2 per Km	S/U	S
Item Grade			S/U	S

Item 8 - Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)				
a	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U	S
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	-
c	Gradation Test for Course Aggregate (if the work in the item is ongoing)/visual observation in case of completed item of work	1 test on the day of inspection	S/U	-
d	Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)	1 test on the day of inspection	S/U	-
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	-
f	Thickness of layer	2 per Km	S/U	S
g	Surface Evenness in case of completed BT work	2 per Km	S/U	S
Item Grade			S/U	S
Item 9 – Shoulders				
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	-
b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	-
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	-
Item Grade			S/SRI/U	-
Item 10 - Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.				
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	-
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	-

Item 8 - Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)				
a	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U	
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	
c	Gradation Test for Course Aggregate (if the work in the item is ongoing)/visual observation in case of completed item of work	1 test on the day of inspection	S/U	
d	Grade of bitumen and temperature at the time of mixing and laying (if the work in the item is ongoing)	1 test on the day of inspection	S/U	
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	
f	Thickness of layer	2 per Km	S/U	
g	Surface Evenness in case of completed BT work	2 per Km	S/U	
Item Grade			S/U	
Item 9 – Shoulders				
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	
b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	
Item Grade			S/SRI/U	
Item 10 - Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.				
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	
Item Grade			S/SRI/U	

Item 11 - Side Drain and Catch Water Drain				
a	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	✓
Item Grade			S/SRI/U	-
Item 12 - CC/ Semi Rigid Pavements and Associated Pukka Drains				
a	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	-
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	✓
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U	✓
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	-
Item Grade			S/U	-
Item 13 - Road Furniture and Markings				
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	S
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Stage-III	S/U	✓
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	S
Item Grade			S/U	S

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

Item No.	Sub Item for Observation	Awarded Grade
Item No 1	Setting Out and Working Drawing	S
Item No 2	Site Clearance and Grubbing	S
Item No 3	Quality Arrangements	-
Item No 4	Geometrics	S
Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	-
Item No 5 B	Earth Work in Cutting in Hilly/ Rolling Terrain	-
Item No 6	Sub-Base	S
Item No 7	Base Course – Water Bound Macadam	S
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	S
Item No 9	Shoulders	-
Item No 10	Cross Drainage Works – Causeways of all Spans and Culverts up to 6 m. span.	-
Item No 11	Side Drain and Catch Water Drain	-
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	-
Item No 13	Road Furniture and Markings	S
Overall Grading		S

Signature :

Name:

Date:

[Signature]
28/12/18
Sunita Singh
28/12/18

OBSERVATION SHEET
Calculation of Sieve Analysis

Name of Road :- L156 Jatahar to Basantpur Melikpur (VR56) BR 16R 274

BLOCK:- Barsoi

DIVISION:- Barsoi

G.S.B. (Gr-III)

CHAINAGE:- 0.097m

I.S. Siver Designation in mm	weight of Sample Retained (gm)	Percentage of Wt. Retained	Comulative Percentage of Wt. Retained	Percentage of Passing	Permissible Value
26.5	0	0	0	100	100%.
4.75	47006	56.62	56.62	43.38	25-45%.
0.075	36014	43.38	100	0	0-10%.
Total	83020				

Qm
28/12/18
AG

W.B.M. Gr-III

CHAINAGE:- 0.097m

I.S. Siver Designation in mm	weight of Sample Retained (gm)	Percentage of Wt. Retained	Comulative Percentage of Wt. Retained	Percentage of Passing	Permissible Value
63	0	0	0	100	100%.
53	1395	4	4	96	95-100%.
45	7844	22.50	26.50	73.50	65-90%.
22.4	22965	65.87	92.37	7.63	0-10 %.
11.2	2660	7.63	100	0	0-5%.
Total	34864				

Screening Material = 7141 gm → 17%.

Total wt = 42005 gm

Qm
28/12/18
AG

Qm
28/12/18
AG

OBSERVATION SHEET FOR FIELD DENSITY OF SOIL

(By Core Cutter Method)

Name of Road: L156 Jatahar to Basantpur Malikpur (V.R. 56) BR16R274

BLOCK:- Barrooi

DIVISION:- Barrooi

CHANAGE- 0.097.

SL.NO.	DESCRIPTION	OBSERVATION	
1	Maximum Dry Density (M.D.D) as per record (O.M.C)	1.67	Gm/CC %
2	Volume of Mould (V)cm ³	1020.50	cc
3	Weigth of empty Mould (W)gm	1016	gms
4	Weigth of Mould+ Soil (W1)gm	2875	gms
5	Weigth of Soil (W1-W)gm	1859	gms
6	Bulk Density $Y_b = (W1 - W) / V$	1.82	Gm/cc
7	Moisture Content (M)m (By Rapid Moisture meter)	8	%
8	Dry Density $Y_d = (100 \times Y_b) / 100 + M$	1.69	gm/cm ³
9	Degree of Compaction = Dry Density x 100 / Maximum Dry Density (M.D.D.)	101 %	%

28/12/18
AG

28/12/18
P.O.
Ganikani