Format 1- Part I

Format for information to SQM for Inspection of PMGSY Work <u>PART I- Work Information</u> (*To be filled-up by PIU*)

		Work is C	ngoing Comple	eted	
GENE	RAL:				
1.1.	Date of Inspection:	DD MM Y	A 59/15/5	018	
1.2.	Name of State Quality		. Sunzl kur	nar Singh	
1.3.	District: Katz haz		Irambur		_
1.4.	Name of Road: Fro	m L049-T06 S	ihagaon t	o Palsa	
1.5.	Package No.: BR-161				
1.6.	Length: 1:5.Km Flexib	ole Pavement, l:5 .Kn	 CC/other Pavement 	entm.	
= Tota	11:50 Km				
1.7. H	Estimated Cost (As clea	ared by GOI):	Rs.	84.45 Lakh	
1.8.	Technical Sanction C	ost: R	S.	Lakh	
1.9.	The Work is a Case o	f: New connec	tivity Up grada	ition -	
1.10.	Terrain Pl	ain Rolling Hill	у		
1.11.	Date of Start of the We	ork:	20 03 18		
1.12.	Stipulated Date of Cor	npletion:	19 03 19		
1.13.	Actual Date of Comp	oletion (if work compl	eted):		
2. Progra	PHYSICAL PROGRAMME and Physical Programme		n going works only) Construction	

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	90%	Due			
	30%	Actual			
CD Works	14	Due			
	100%	Actual			
Sub base i/c	1001/	Due			
Shoulders	100%	Actual			
Base Course (Non	100%	Due		+	
Bitu.)	1007.	Actual			
Base /Wearing	5av/	Due			
Course (Bitu.)	50%	Actual		4	
CC Pavement		Due			
=		Actual			
Signage etc	70%	Due			
	70%	Actual			

3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory: A7 Site
- 3.2. Quality Control Register Part-1 is maintained by:
- 3.3. Quality Control Register Part-II is maintained by: conducted PTU
- 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
23 11 18	Er.Syed Mumilaz Ahmad (SBM)	s''	
		•	
		. *	

For- 9 19/12/18

Name and Signature of the Head of PIU, Date:

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

Γ	#	Whether	Exact	Whether Center Line of	Whether properly
	ŝ	Bench marks @ 4 per km	Locations of the Bench Marks	referenced with Marker	prepared Working Drawing for the work under progress is
		established (Y/N)		Pegs and Chainage Boards (Y/N)	available (Y/N)
		Υ.	0.00	Υ	7)

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 Grubbing being done as per DPR Material obtained being disposed properly (Y/N)	and is	Whether the available scarifying exists or clearing can be reused (Y/N)	from sting work operations	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.
	Y		7		

Grading: Grade:	S	SRI	U	If this item is graded SRI/U, write clear reasons and
suggestions for	imp	proven	ent:	` હ

3. QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY - $\underline{\text{For all stages of work}}$

Observations about Field Laboratory:

# 2	Whether Field laboratory Established (Y/N)	List the equipments Available.	Whether adequate Equipments as per requirement of work are Available and are being used. (Y/N)
	7	703	Y

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)

#	Item of Executed	Work	Quantity	Name of Test	No. of Tests required	No. of Tests Conducted by PIU/Contractor
			_			
			•			
			-			
				_		,

#	Based on executed	Whether QC Register Part	Whether QC Register Part	
	quantities whether all	I maintained as per	II maintained and test	
	mandatory tests	provisions.	results monitored as per	
	***************************************	Providence	provisions.	
	conducted.		provisions.	
d.	Yes Partly No	Yes Partly No	Yes Partly No	
			~	
,	Y	l Y	T	
Gr	ading: Grade: S SRI	U If this item is graded SRI/U.	, write clear reasons and	
6116	ggestions for improvement:			
Sug	ggestions for unprovenient.	1		
1		` S'		
1				
1				
1				

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 %
1400	6.00	3.75	3.2/				
1							-

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)
1410	57%	Y			
	,				-
,				,	

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

5. OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORKS. Earthwork:

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

	#	Location (RD)	On Visual Classification identify	Quality of material is
١		·	the Group Symbol and write	acceptable. (Y/N)
1		620	sandy.	Y
١				

_			TEAL In terms in			
	ggestions for	S U r improvemer		graded U, write c	lear reasons and	
			(S'		
Obs	ervation –V	Vorkmanshij	o for Embankm	nent and Sub-gra	nde Constructio	n;
#	Location	MDD KN/r	n ³ Field	l Dec	gree of Compact	ion
"	(RD)	(As per	Moisture	Field Density	Dry Density	Compaction
	, ,	record)	Content	KN/m ³	KN/m ³	adequate. (Y/N)
	620.	1-70		1.82	1.21	Ý
	1370	1.70	7	1.82	1.70	Y
					·	
			_			
		142		*	_	
G	rade: 🔏	U If this	item is graded U	, write clear reaso	ons and suggestion	ons for
im	provement:					
			's'			
•			,			
Ob	servation –	Side slopes a	nd profile:			
	# Locati	ion (RD)	Whether Side S	lopes	Whether profi	le is
			Satisfactory (Y/	N)	Satisfactory (
			(1	2		
			Ju	thighis.	1	
\vdash					,	

${\bf Observations-Earth\ work\ in\ Hilly/Rolling\ terrain\ or\ high\ Embankments:}$

#	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)		Formation is properly dressed and traffic worthy. (Y/N)
		stable. (1714)	encounted (1714)	, , , , , , , , , , , , , , , , , , ,
		7		
		M. A		
				,

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

Ref. Between	Longitudinal	S/U	Ref. Between	Longitudinal	S/U
RD& RD	Gradient		RD& RD	Gradient	
	Mi	1-			
		<u> </u>			

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

6. Sub-Base:

${\bf Observations - Quality \ of \ Material \ and \ Workmanship:}$

#	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)
,	620	Y	Y	Y	200	7
	13 70	Υ	Y	Υ	500.	Y
				_		

rimprovements	is graded	U, While cle	ar reasons an	d suggestions
The Partie of the State of the				er.
and the state of t			e ver en	
THE STREET STREET			and the second	appearance of the second
•			g in the state of the second	
			•	;
and the second of the second o		A		
				<u> </u>
				· Alexander

Observations- Quality of Material and Workmanship of WBM:

-	#	Location (RD)	of each.	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)
		620 ,,	75	, Yang	Y	7	and the second second	A
	, ,	1370	7.5	4.	Y	Y		Service Y
	***		, 10x	er Miller				
				,		•		

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 suggesti improvement:	· · · · · ·
	d armer 1

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.):

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

In case of PMC/BM/MPM/ Sear Coat							
#	Location	Whether	Whether the	Write Mixing	Write Laying		
	(RD)	Course	binder is of	Temperature	Temperature		
	` ′	Aggregate	approved grade.	and whether it is	and whether it		
		confirms to	(Y/N)	in permissible	is in		
		grading.		limits. (Y/N)	permissible		
		(Y/N)			limits. (Y/N)		
_							
-							
		,					
1							

		L.					
Grade: S U If this item is graded U, write clear reasons and suggestions for improvement:							
Obs	ervations - \			M/MPM (in case	of completed works):		
#	Location		ckness	***************************************	urface evenness is		
	(RD)	Thickness in	Whether thickness	s Within acce	ptable limits. (Y/N)		
		mm	is adequate. (Y/N)			
	1370	22	Υ		γ		
			1				
-			•.				
				,			
Gra	de: S	U If this item i	s graded U, write cl	ear reasons and su	ggestions for		
	rovement:	<u> </u>	,				
mp	10 (011101111	_	0				
			2				
		(Worle	· K.	em)			
		C Wale		}```			
9. (Observation	s - Quality of Sh	oulders:				
#	RD of	Thickness	Whether W	Vhether quality	Whether Shoulders		
"	1	1 21		of compaction	being constructed		

1	#	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 h	qur.	

10.	Cross Drainage	Works:	Observations - 0	Quality of CDs:
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.#	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)
	945	15/15	Y	٢.
		Por		
•	-			

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

11. Side Drains and Catch water Drains: Observations:

#	Raference	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 intregrated to cross drains. (Y/N)
			4. A.	
-		-		

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

#	Reference of	RD at	Thi	ckness	General	General
	RDs, CC/SR Pavements Provided.	which observation on made.	Thickness in mm	Acceptable (Y/N)	quality of material is Acceptable. (Y/N)	quality of workmanship acceptable(Y/ N)
	ř.		M.	4.		

Comments about adequacy of face/main walls, wings and retaining walls:
M-A.
Grade: S U If this item is graded U, write clear reasons and suggestions for improvement:
M·A-
3. Road Furniture and Markings
Observations - Item No. 14 a: Quality Road Furniture and Markings:
Main Informatory Board Fixed: Citizen Information Board Fixed: Yes No Yes No
Grade: S U If this item is graded U, write clear reasons and suggestions for improvement:

Observations - Quality Road Furniture and Markings:

 13.1.1. Logo Boards Fixed:
 Yes No

 13.1.2. 200m. Stones fixed:
 Yes No

 13.1.3. 1 Km. Stone fixed:
 Yes No

13.1.4. Guard Stones fixed on Curves:

Yes No

13.1.5. Mandatory and Cautionary Signage
Yes No

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

- 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.

	S. M. S. Observation	Stage of Work	Awardable	Awarded			
#	Sub Item for Observation		Grades 4	Grades 5			
1	2	3					
	Item 1 – Setting Out and Working Drawing						
a	Bench Mark and Centre Line	All Stages	S/SRI/U	٤			
b	Availability of Working Drawing	All Stages	S/SRI/U	5			
	Item Grade			S			
	Item 2 – S	te Clearance and Grubbing					
a	Site Clearance and Grubbing	Stage-I	S/SRI/U	ع			
b	Re-use of Salvageable Material	Stage-I	S/SRI/U				
-	No use of surrageaste states	Item Grade	S/SRI/U	S			
-	Item 3	- Quality Arrangements					
a	Quality Arrangements	All Stages	S/SRI/U	S			
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U				
c	Maintenance of QC Registers	All Stages	S/SRI/U	S			
		Item Grade	S/SRI/U	S			
	I	tem 4 – Geometrics		1			
а	Road way width	2 per Km in every inspection	S/U	8			
b	Carriageway width	2 per Km in every inspection	S/U	\$.			
c	Camber	2 per km	S/U	5			
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	5			
-		Item Grade	S/U	. 5			
-	Item 5A - Earth Work and Sub-grade in Embankment/ Cutting						
а	Quality of Material for Embankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U				
b	,	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	S			
c	Side Slopes and Profile	2 per km in Stage III	S/U				

	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	- <u>-</u>			
b	Adequacy of Slope Protection	All Stages - In general	S/U	_			
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	-			
d	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	-			
		Item Grade	S/U				
		Item 6 - Sub-Base					
	Quality of Material						
a	Grain Size	In Stage- II or III, 1 per	S/U	8			
b	Plasticity	km	S/U				
c	Compaction	In Stage- II or III, 1 per km	S/U	ی			
d	Total Thickness of Layer	2 per Km	S/U	S			
		Item Grade	S/U	2			
	Item 7 - Base (Course – Water Bound Maca	ıdam				
a	Grain Size of Course Aggregate	I G W W Lunden	S/U	\$			
b	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type	In Stage- II or III, 1 per km	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			
е	Thickness of every layer of WBM.	2 per Km	S/U	ی			
		Item Grade	S/U	٤			

	Item 8 - Bituminous Layer - Premix Carpet (PMC)/ Surface Dressing (SD)					
		and carper (1770), burner				
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	I 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)	l 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	S		
	,	Item Grade	S/U	2		
]	tem 9 – Shoulders				
а	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			
Ite	m Grade		S/SRI/U			
	Item 10 - Cross Drainage Works - Causeways of all spans span.			upto 6 m.		
а	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	S		
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	l per Km	S/U			
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	I observation on the day of inspection	S/U			
e	Gradation Test for Course Aggregate (if the work in the item is ongoing)/visual observation in case of completed item of work	I 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)	I test on the day of inspection	S/U			
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	ļ,		
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			
	J	tem 9 – Shoulders				
а	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRIXU			
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			
	n Grade		S/SRI/U	\		
	Item 10 - Cross Drainage Works - Causeways of all spans and Culverts up to 6 m. span.					
а	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					
а	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U			
		Item Grade	S/SRI/U	S		
	Item 12 - CC/ Semi Rigid F	Pavements and Associated P	ukka 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	1		
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 - Ro	ad 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	9		

17. Overall Grading of Work: The overall grading calculated on the basis of item and subitem 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	<u>s</u>		
Item No 3	Quality Arrangements	S		
Item No 4	Geometrics	٤		
Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	5		
7. N. E.D.	Earth Work in Cutting in Hilly/ Rolling Terrain	_		
Item No 5 B	Sub-Base	S		
Item No 6	Base Course – Water Bound Macadam	S		
Item No 7	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	S		
Item No 9 Item No 10	Shoulders Cross Drainage Works – Causeways of all Spans and Culverts up to 6 m. span.	S		
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	\$		
	Overall Grading			

Signature :

Name:

Date: 2 211418

OBSERVATION SHEET

Calculation of Sieve Analysis

Name of Road: LO49-TO6 Sihagaon to palsa (BR-16R-340)

BLOCK:- Balvampur

DIVISION: Barson

<u>G.S.B.</u>

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
75	0	Ó	O	100	100
26.5	30840	40.25	40.25	59.75	55-75%
4.75	23645	30.86	71.11	28.89	10-30%
0.075	22136	28.89	100	0	0-10%
Total	76620				

W.B.M. Gr-III						
CHAINAGE:- 620 m						
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	4084	10.48	10.48	89.52	35-100%	
45	9536	24.47	34.95	65.05	65-90%	
22.4	22135	56.80	91.75	8-25	0-10%	
11.2	3215	8.25	100	0	0-5%	
Total	38970		JUSTIE IN		34,	

OBSERVATION SHEET FOR FIELD DENSITY OF SOIL

(By Core Cutter Method)

Name of Road: LO49-TO6 Sihagaon to palsa (BR-16R-340)

BLOCK:- Bolrambur

DIVISION: Barson

CHANAGE	- 620m		
SL.NO.	DESCRIPTION	OBSERVATION	
· 1	Maximum Dry Density (M.D.D) as per record (O.M.C)	1.70	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	2905	gms
5	Weigth of Soil (W1-W)gm	1889	gms
6	Bulk Density Yb=(W1-W)/V	1.85	Gm/cc
7	Moisture Content (M)m (By Rapid Moisture meter)	8	%
8	Dry Density Yd=(100 x Yb)/100+M	1.71	gm/cm ³
9.	Degree of Compaction =Dry Density x100 /Maximum Dry Density (M.D.D.)	100.82%	%

29/2/18



29/14/8

OBSERVATION SHEET

Calculation of Sieve Analysis

to palea (BR-16R-340) Name of Road: LOYS TO6 Sihaguen BLOCK: Balrampur

DIVISION: Barson

<u>G.S.B.</u>

CHAINAGE:-	3	70
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I.S.Siver Designation in mm	weight of Sample Retained (gm)	l .	Comulative Percentage of Wt. Retained	Percentage of Passing	Permissible Value
75	0	O	O	100	100
26.5	31829	38.50	38.20	61-50	55-75%
4.75	29605	32.81	74.31	25.69	10-30%.
0.075	21238	25.69	100	O	0-104.
					4
Total	82672				

W.B.M. Gr-III						
CHAINAGE:- 1370						
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	Ø	Ø	100	100%	
53	7010	17-45	17.45	82.55	95-100%	
45	58 57	14.28	32.03	67.97	65-90%	
22.4	25150	62.61	94.64	5.36	0-10%	
11.2	2153	5.36	. 100	0	0-5%	
Total	40170	ì	od colle			

Pio's

OBSERVATION SHEET FOR FIELD DENSITY OF SOIL

(By Core Cutter Method)

Name of Road: LO49- To6 Sihagaon to palsa (BR-16R-340)

BLOCK:- Balrampur

DIVISION: Barboi

CHANAGE- 1370					
SL.NO.	DESCRIPTION	OBSERVATION			
1	Maximum Dry Density (M.D.D) as per record (O.M.C)	1.70	Gm/CC %		
2	Volume of Mould (V)cm ³	1020.50	сс		
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	1852	gms		
6	Bulk Density Yb=(W1-W)/V	1.82	Gm/cc		
7	Moisture Content (M)m (By Rapid Moisture meter)	F	%		
8	Dry Density Yd=(100 x Yb)/100+M	1.70	gm/cm ³		
9	Degree of Compaction =Dry Density x100 /Maximum Dry Density (M.D.D.)	100.15%	%		

29/12/18 24/12/18 1003 112/18

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