# Format for information to SQM for Inspection of PMGSY Work PART I- Work Information (To be filled-up by PIU)

	Work is   Ongoing   Completed
GENE	CRAL:
1.1.	Date of Inspection: DD   MM   YY   28.12.18
1.2	Name of State Quality Monitor: EE. RWD. Chakia  District: East Champeron Block: Revery
1.4.	Name of Road: From Lack mipus to Blake by .
1.5.	Package No.: BR-11R-600
1.6. Total. 1.7.	Length:Km Flexible Pavement,Km. CC/other Pavementm. = 1288. Km  Estimated Cost (As cleared by GOI): Rs. 58.95 Lakh
1.8.	Technical Sanction Cost: Rs. 58.95 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: 03 07 2017
1.12.	Stipulated Date of Completion: 02 07 2018
1.13.	Actual Date of Completion (if work completed):
2. Progr	PHYSICAL PROGRESS: (In case of On going works only) Construction amme and Physical Progress:

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	60%	Due	1		
	1	Actual			
CD Works	100 4	Due	-		
	100%	Actual			
Sub base i/c	1.00.1	Due			
Shoulders	100)	Actual			
Base Course Non	100-1.	Due		167	
Bitu.)		Actual			
Base /Wearing		Due		-	
Course(Bitu.) 100 1/.		Actual	1		
CC Pavement		Due			1
	-	Actual		1	1
Signage etc	25.7	Due			
	25.1.	Actual			

3. QUALITY CONTROL:

3.1. Location of Field Laboratory: 80 9

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

0111

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

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 Ta	ken by PIU with Date
Q+L	indicate 13			
		a 1 Alexandra	ESP CALLED VA	
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	7331	1.85		
		Hart Transfer of William	20 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
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		Land Section of the section is		ale him and the
120/213-0	Salary Care			
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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:

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

#	Whether	Exact	Whether Center Line of	Whether properly			
	Bench	Locations of	Carriage Way accurately	prepared Working			
	marks @ 4	the Bench	established and	Drawing for the work			
1 .	per km	Marks	referenced with Marker	under progress is			
	established		Pegs and Chainage	available (Y/N)			
	(Y/N)		Boards (Y/N)				
	7	_	4	<b>y</b>			
	Grading: Grade: S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:						

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

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

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

3. QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY - For all stages of work

Observations about Field Laboratory:

#	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)
210	y		X Mary 1

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 Work Executed	Quantity	Name of Test	No. of Tests required	No. of Tests Conducted by PIU/Contractor
		eng to moti			
					·
		1000			
					<u> </u>
			1	2011/01/2011/2011/2011/2011/2011/2011/2	144
	she'd to Lythic 18	Spirit and			
				Sheet of the second	
	Mar all CEPA Fre				
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	THE SHAPE OF			and the state of t	

#	quantities whether all		Whether QC/Register Part II maintained and test results monitored as per provisions. Yes Partly No
		•	

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

15

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 madequate SQM may take more observations:

Observations -Road way width, Carriage way and Camber.

Ref. RD KM	Roadway Width (m)	Carriage way Width (m)	Camber in %	Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %
0.270	6.0	3.75	3-5			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(1) (4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1						
	Manua D					L L. (G	

Observations - Super-elevation and Extra Widening at curves.

Ref. RD KM	Super Elevation	Lixtra Widening provided (Y/N)	Ref. RD	Super	Extra Widening provided (Y/N)
0.450	6.0%	У	1441		
	L	W 2 - 1 - 1			
		·			

Grade: SU If this	item is graded t), write cle	car reasons and suggestions for
improvement:	`s "	Weylor
		Visine Ubourts  proposed Visions  [15.53 nate of twee of the control of the contr

5. OBSERVATIONS RECARDING THE QUALITY OF ITEMS OF WORKS.

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)
		Sandy Saire	×
		Press - Pare Pare	-
*			

	gestions for	improvement				
			"5"			
			Allen es mos			
					The state of the s	
		\				
hse	ervation –V	Vorkmanshin	for Embanka	ent and Sub-org	ide Constructio	n:
17.30	. vacion – v	rorkijansiq	TOT TAINTAINE	icht and odo-gra	de Constructio	-
#	Location	MDD KN/n		Deg	gree of Compact	
	(RD)	record)	Moisture Content	Field Density KN/m <sup>3</sup>	Dry Density KN/m <sup>3</sup>	Compaction adequate.
-						(Y/N)
-		N.	diquate	8 Acesta	e.	A STATE OF THE STA
-		,	1	2 accepta		202.6
-			1881	report en	elos W)	-
-						
	rade: S		item is praided U	J, write clear reas	ons and suggesti	ions for
	rade: S			71	ons and suggesti	ions for
	-			), write clear reas	ons and suggesti	ions for
	-			1 = 11	ons and suggesti	ions for
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	-			1 = 11	ons and suggesti	ions for
im	provement:			1 = 11	ons and suggesti	ions for
im	servation -	Side slopes	and profile:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
im	servation -			Slopes	whether pro	file is :
im	servation -	Side slopes	and profile:	Slopes	Whether pro	file is :
im	servation -	Side slopes	and profile:	Slopes	Whether pro	file is :

## 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)
Obe Table		NA	01 W 500	
				EST SHALLS
			Brus Copper	0

## 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
og i takili oli	L GAY) T. N		KH L (cm)		
		NA			
	Y				

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
de al acanava	Observations . Surface responses surface

#### 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)
	0-250	×	7	×	100.	>
					l	

Grade: S 0 If this item is graded U, write clear reasons and suggestions for improvement:

#### 7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

(RD)	of each layer of WBM (mm)	is adequate. (Y/N)	Aggregate confirms to Grading (Y/N)	non-plastic to desired extent.	Volume of filler material percent of course	Whether adequate compaction is done.  (Y/N)
0.250	6711 75W	Y	Y	(A/M)	aggregate	>
ynassa n	da vilago	Sisterio.			2009 (	

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

Grade: S improvement:	U If thi	s item is grade	ed U, write	clear reason	ns and sugg	gestions for
(des at)	12	11	5 11.	0-15		
		alije Servija 1944 Servija 1951				

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	JBM/MPM/S	eal 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
		(XV)			limits, (Y/N)
		14			
				·	

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		and an in the second	entrario to 1725 entrario to 1725			
		A CONTRACTOR				
				en di		
	servations -	Workmanship	of BT layer PN	MC/B	M/MPM (in	case of completed
#	Location	Th	ickness		Whether s	urface evenness is
	(RD)	Thickness in mm	Whether thick is adequate. ()	The state of the s		ptable limits. (Y/N)
	0.250	20 mm	×		×	
				200		
		Christian Burkery				edissis in the
	1					
	ade: S U	If this ite	m is graded U, v	write o	clear reasons	and suggestions for
imp	provement: Observatio	ns - Quality of of Thickness n of layer in	Shoulders: Whether quality of the	Whet	ther quality compaction	and suggestions for Whether Shoulder
9.	Observatio	ns - Quality of of Thickness of layer in mm	Shoulders:	Whet of work	her quality	Whether Shoulder being constructe simultaneously with sub-base an
9.	Observatio	ns - Quality of of Thickness n of layer in	Shoulders: Whether quality of the material is acceptable.	Whet of work	her quality compaction manship is	Whether Shoulder being constructe simultaneously with sub-base an
9.	Observatio	ns - Quality of Of Thickness of layer in mm	Shoulders: Whether quality of the material is acceptable.	Whet of work accep	her quality compaction manship is	Whether Shoulder being constructe simultaneously with sub-base an
9.	Observatio	ns - Quality of Of Thickness of layer in mm	Shoulders: Whether quality of the material is acceptable. (Y/N)	Whet of work accep	her quality compaction manship is	Whether Shoulder

. ...

#### 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)		of is
	0.350	HP 2×1000	y	Y	
		31.3			
		4			

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:

# .	Reference of RDs where side drain constructed.	Whether general quality of the side drains/ catchwater drains is acceptable. (Y/N)	Whether side drains are integrated to cross drains. (Y/N)
55			was in the second
		NA -	
		1	
-			

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

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

#	Reference of	The second secon	Thic	kness	General	General
	RDs, CC/SR Pavements provided.	observati on made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable. (Y/N)	quality of workmanship acceptable(Y/ N)
	Y_E	No.	NH			
	200200					and the last

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

The state						
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esseller eid Vess Janeers			egiste e da stássic Clár lea ealása Selde leage státa	ois 1031		

Grade: Simprovement		his item is gra	ded U, write cle	ar reasons and	śuggestions
	# 10				
		and the second			American III Santa
eda sam-	1000	e spil cul il	ing and		

#### 13. Road Furniture and Markings

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

Main Informatory Board Fixed:

Yes No

Citizen Information Board Fixed:

Yes No

Grade: S U improvement:

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

13 11

#### Observations - Quality Road Furniture and Markings:

13.1.1. Logo Boards Fixed:

Yes No

13.1.2. 200m. Stones fixed:

Yes No

yet tabe

13.1.3. 1 Km. Stone fixed:

Grade: | S

Yes No

13.1.4. Guard Stones fixed on Curves:

Yes No

13.1.5. Mandatory and Cautionary Signage

improvement:

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

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 programme or the delay has occurred. If delay has occurred, whether 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):

work is ongoing

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: 34 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 - Settin	ng Out and Working Drav	ving	
a .	Bench Mark and Centre Line	All Stages	S/SRI/U	5
b	Availability of Working Drawing	All Stages	S/SRI/U	5
		Item Grade	S/SRI/U	S
	Item 2 – Si	te Clearance and Grubbin	g	
a	Site Clearance and Grubbing	Stage-I	S/SRI/U	\$
b	Re-use of Salvageable Material Stage-I		S/SRI/U	
		Item Grade	S/SRI/U	5
	Item 3	- Quality Arrangements		
a	Quality Arrangements	All Stages	S/SRI/U	5
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	5
c	Maintenance of QC Registers	All Stages	S/SRI/U	5
		Item Grade	S/SRI/U	5
	I	tem 4 – Geometrics		
a	Road way width	2 per Km in every inspection	S/U	5
b	Carriageway width	2 per Km in every inspection	S/U	S
c	Camber	2 per km	S/U ′	3
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 Embanl	cment/ Cutting	3
a	Quality of Material for Embankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U	S
b	Compaction	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	5
	Side Slopes and Profile	2 per km in Stage III	S/U	

	Item 5B - Earth Wor	rk in Cutting in Hilly/ Rolli	ng Terrain	
1	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/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	Longitudina! Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in each Km	S/U	-
	The second second	Item Grade	S/U	6
		Item 6 - Sub-Base		
1	Quality of Material			
a	Grain Size	In Stage- II or III, 1 per	S/U	5
b	Plasticity	km .	S/U	_
c	Compaction	In Stage- II or III, 1 per	S/U	5
d	Total Thickness of Layer	2 per Km	S/U	5
		Item Grade	S/U	5
	Item 7 - Base 0	Course - Water Bound Ma	cadam	
a	Grain Size of Course Aggregate		S/U	5
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	3
d	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/Ü	-
e	Thickness of every layer of WBM.	2 per Km	S/U	5
		Item Grade	S/U	(

1	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/Ü	_
2	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	4
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	5
g	Surface Evenness in case of completed BT work	2 per Km	S/U	5
		Item Grade	S/U	5
	100 I	tem 9 - Shoulders		1.1
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	ongo
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	
Ite	em Grade		S/SRI/U	5
	Item 10 - Cross Drainage Work	s – Causeways of all spans span.	and Culverts	upto 6 m.
a	Quality of Material - Concrete, Stone/ brick masonry, Hume pipes including size etc.  All Stages		S/SRI/U	5
d,	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	3
		Item Grade	S/SRI/U	C

	Item II - Side	Drain and Catch Water I	rain	
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 Associate	d Pukka Drai	ns
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.		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 - R	oad Furniture and Marki	ngs	
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	5
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	5
		Item Grade	S/U	5

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	5
Item No 2	Site Clearance and Grubbing	5
Item No 3	Quality Arrangements	3
Item No 4	Geometrics	- Succession
Iftem No.5 A	JEARTH Work and Subsprade In Embankment	
Item(Nm5/B	Parth Work in Guilling man IV/Rolling Terrain	
Item No.65	Sub Bases Production of the Control	
Item No 7a +	Buse Collise - Water Bound Macrobin	
Item No 8cs - 4	Bruminous Payer = Bremix Campel (P.M.C)/   Subace Dressing (SD)	
Item No 9	Shoulders	-
Item No 10	Cross Drainage Works - Causeways of all spans and Culverts upto 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	5
	Overall Grading	5

Signature:

Name:

Date: ....

#### WBM Gr-III

NAME of WORK: - Lachhmipur to Bhaluahiya

PHASE -

PACKAGE No. - BR-118-650

CHAINAGE - 0.250 KM

Date of Test - 28/12/18

Weight of Sample - 33090 gm

			*****	gint of Sample -	U
I.S Sieve Designation	Weight of Sample Retained (gm.)	% of Weight Retained	Cummulative % of Weight Retained	% of Weight Passing	Permissible Value %
63mm	7920	O	0	100	100
53mm -	792	2.39	2.39	97.61	95-100
45mm	5365	16.21	18.60	81.40	65-90
22.4mm	23945	72.36	90.96	9.04	0-10
11.2mm	2988	9.04	100	_	0-5
Pan					

T . 1	** 1	. 1		0	1
Lotal	WE	eigh	it of	Samp	le

Weight of Screening

Percentage of Screening

Result of Sieve Analysis .....

Olmiz 28/12/18 Tested by 28/14 28/14 Clarker 5

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#### GSB Gr-I

NAME of WORK: Lachhmipus to Bhallahia.

PHASE -

PACKAGE No. - BR-118-650

CHAINAGE - 0.25 KM

Date of Test - 28/12/18

Weight of Sample - 29040 gm

I.S Seive Designation	Weight of Sample Retained (gm.)	% of Weight Retained	Cummulative % of Weight Retained	% of Weight Passing	Permissible Value %
75mm	0	0	0	100	100
26.5mm	8845	30.46	30.46	69.54	55-75
4.75mm	12455	42.89	73:35	26.65	10-30
0.075mm (75 micron)	7740	26.65	100		0-10

Show's 28/17/18 Tested by chow by

for sells