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

CENEDAL. Work is Ongoing Completed	
GENERAL:	
1.1. Date of Inspection: DD MM YY 28.12, 2018	
1.2. Name of State Quality Monitor: 12. Page 1	
1.3. District: Fall chamberon Block	
Name of Road: From Bangribule to Babban sour	
1.5. Package No.: BR-118-553	
1.6. Length: 22.4Km Flexible Pavement;Km. CC/other Pavement O.150m. = Total. 1.22.Km	
1.7. Estimated Cost (As cleared by GOI): Rs. 28.37 Lakh	
1.8. Technical Sanction Cost: Rs. 84.63 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: 17 7 2014	
1.12. Stipulated Date of Completion: 16 7 2015	
1.13. Actual Date of Completion (if work completed):	٤٥,
2. PHYSICAL PROGRESS: (In case of On going works only) Construction Programme and Physical Progress:	

Item	Completed	Dates for	Start	Completion	Delay in
	percentage of Item	completion	Date	Date	Months
Earth Work	7.9	Due			
Dartii Wooss	70%	Actual			
CD Works	100%	Due			
CD WOIRS	(60).	Actual		-	
Sub base i/c	1 2	Due		10 - T	
Shoulders	100%	Actual		-	
Base Course (Non	0-1	Due			
Bitu.)	85%	Actual	1		
Base /Wearing		Due	7		
Course(Bitu.)	_	Actual			
CC Pavement	and	Due	1		
CC Favement	95%	Actual			
G'amaga etc	50%	Due			
Signage etc	30/-	Actual			

1	APPL TO THE STATE OF THE STATE	
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- 3.2. Quality Control Register Part-I is maintained by: Agency.
- 3.3. Quality Control Register Part-II is maintained by: A epostmental.

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 Inspected Visit By		Observations	Action Taken by PIU with Date		

Name	and	Signature	of	the	Head	of	PIU,	Date:	
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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	TTT	
		•	TI	111	

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)	prepared Working Drawing for the work			
	3		•				
Gr sug	Grading: Grade: S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:						
				A Transfer on the second			
2		and the state of t	- SRI				

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

	#	Whether Clearing and	Whether the material	Name the reusable material
1		Grubbing being done	available from	obtainable from clearance or
	2	as per DPR and	scarifying existing work	scarification and indicate
	**	Material obtained is	or clearing operations	approximate quantity and its
	- 1	being disposed off	can be salvaged and	re-use by the PIU.
		www.orly (V/NI)	reused (Y/N)	
		Work Completed	upto WBIM, level	

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

3. QUALITY ARRANGEMENTS AND ATTENTION TO QUALITY - For all Observations about Field Laboratory.

	Whether Field laboratory Established (Y/N)	available.	Whether adequate Equipments as per requirement of work are available and are being used.
4.7	Ν.		(Y/N)

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 Test	of	No. of Tests required	No. of Tests Conducted by PIU/Contractor
# The state of the							
							1

#			Whether QC Register Part
	quantities whether all	I maintained as per	II maintained and test
	mandatory tests	provisions.	results monitored as per
	conducted.	2	provisions.
	Yes Partly No	Yes Partly No	Yes Partly No
14-05-130		Table 1	
<u></u>		And the state of t	A so

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

4. GEOMETRICS: The SQM should take at-least two measurements in 1 Km more observations:

Observations -Road way width, Carriage way and Camber.

Cart	Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %	Ref. RD	Roadway Width (m)		Camber in %
Gr-II	00	6.00	4,05	3%				
cerel.	550	6.00	4.05		2 y 1-	1	1	1
CCP-	1.16	6,00	3.75		9 1 1	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)
	2.00				

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
	the control of the second of the control of the con

OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:

5. 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)
	y 1	the Group Symbol and write	acceptable. (1714)
	550	Sandy Clay.	χ.
			The second of th
- 4.			
	2, 1	Commence of the commence of	

	perions i	or improvem	ent:	ms item is	graded U, write	clear reasons an	d
				N S	C		
				edicine ranca galas <u>a.</u>	Distriction of the second		
	By they are the completely						
S	ervation –	Workmansl	nin f	or Embar	kment and Sub		
T	Location	10000	t.		ikment and Sub	-grade Constr	uction:
l	(RD)	MDD kN/r	n'	Field	Deg	ree of Compac	tion
	(10)	(As per record)		Moisture Content	Field Density kN/m ³	Dry Density kN/m ³	Compaction adequate. (Y/N)
-		Sec. 1.7		1 A		a 1 4 _{0.9}	S - 1
	-4	V 21				1 (
	1 100 1 2 2 2 2				to be	+ 3a a A	-1 10 2
	5 1			ta tasta			
- 20							
_						1	
r	ade: S	U If this	s ite	m is grade	d U, write clear	reasons and su	ggestions for
ij	provement					.3	
			_		1.A		
1	er Mitthey D		were it is	12.1	Sugar Ex		
S	ervation –	Side slopes	and	l profile:			
	T	ion (RD)	Whe	ther Side	Slopes	Whether pro	ofile is

#	Location (RD)	Whether Side Slopes	Whether profile is
1 3 5 5		Satisfactory (Y/N)	Satisfactory (Y/N)
	1 ower basis in a 1 g .		Conformation Comments
	În	Progress.	
	, some og meg er en gangs i en	Annual Company of Mary Company	man and the second of the seco

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

#	Location	Cut Slopes & P.		mbankments:
		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)
	150			
	-	Plane	Terrain.	
	1 2 2 2 2			

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

Dof D			or coud in iiii	iy/ioning terrain:	
Ref. Between RD& RD	Longitudinal Gradient	S/U	Ref. Between RD& RD	Longitudinal Gradient	S/U
u		ma ja			9

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

6. Sub-Base:

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

#	Location (RD)	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)
		1 = 1 1 = 1				
				\(\frac{1}{2} = \frac{1}{2} =		
		1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A A A A A A A A A A A A A A A A A A A		

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

7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

X N	#	Location	Thickness	Thickness	Aggregate	Filler	Volume of	Whether
		(RD)	of each	is	confirms to		filler	adequate
		The second is said .		adequate.	Grading	non-plastic	material	compaction
			WBM	(Y/N)	(Y/N)	to desired	percent of	is done.
			(mm)		=	extent.	course	(Y/N)
			and the case	an Pi	10,0	(Y/N)	aggregate	,
								A
			4 14		11 4		339 7	
-			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-NA		-,, - + 2	
-	_		1 2					
				5 6 5 1 2 3 3 3 3		Ť.,		

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

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.):

Work is yet to be executed.

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

		J DIVIJ IVIJ O			
#	Location	Whether	Whether the	Write Mixing	Write Laying
12	(RD)	Course	binder is of	Temperature	Temperature
	\$70 A 30 A	Aggregate	approved grade.	and whether it is	and whether it
1,11		confirms to	(Y/N)	in permissible	is in
	11	grading.		limits. (Y/N)	permissible
		(Y/N)			limits. (Y/N)
1"		, ² 6	1		(=,=,)
					1 1 21
	- 4-1 y 1- 3				
	Sign - Williams	and the second s		Washing a second	1
9					
			et du la	west garden to the stage	
i i		1 1 1 2 2 2 2 2	to the same of		
-	77 101				

Grade: S U If this ite improvement:	m is graded U, wr	ite clear reasons and	suggestions for
	11 1.		
19 1	N·A		
the prom g	9 4 5-		

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

#	Location	Th	ickness	Whether surface evenness is		
	(RD)	Thickness in Whether thickness		within acceptable limits. (Y/N)		
		mm	is adequate. (Y/N)	· · · · · · · · · · · · · · · · · · ·		
- 13						
1						
1.5						
_ /						

Grade: S U improvement:	If this item is graded	d U, write clear re	easons and	suggestions for
	NA			

9. Observations - Quality of Shoulders:

#	1	Thickness	Whether	Whether quality	Whether Shoulders
	observation	of layer in		of compaction	being constructed
13 2		mm	material is		simultaneously
			acceptable.	acceptable.(Y/N)	with sub-base and
			(Y/N)		base course (Y/N)
		н.		1 (20)	
				100	

10.	Cross Drainage	Works:	Observations - Quality of CDa
4 -			Observations - Quality of Cha-

#	RD at which	Type of CD	Vin di	•
	CD is located	, yps of CB	Whether quality of the	Whether quality of
		# P	material is acceptable. (Y/N)	workmanship is acceptable. (Y/N)
	280	HumePipeCulver	+ Y	
	1.620	HP Culvert	7	<u> </u>
				1
				the second of the second

Grade: S SRI U suggestions for improvement	If this item is graded SRI/U, write clear reasons and
88 - TOT IMPROVEDITEIN	
ALTERNATION OF THE PARTY OF THE	
The second of th	

11. Side Drains and Catch water Drains: Observations:

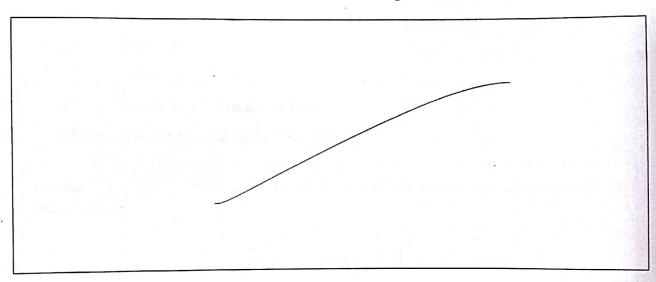
#	Reference of		Whether general quality	
	RDs where side	which	of the side drains/ catch-	are integrated to
- 1	drain	observation	water drains is	cross drains. (Y/N)
	constructed.	made.	acceptable. (Y/N)	
11				
- 1		16 1	wision in DPR	The second secon
0	es lace of N. Co			× 1 × 1 × 1 × 1
	per the state of t	3 91 _ 9		The state of the s

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

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

#	Reference of RDs, CC/SR	RD at which	Thickness		General	General
	Pavements provided.	observati on made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable. (Y/N)	quality of workmanship acceptable(Y/N)
ļ.		1.10	190	Y	Ţ	Y .
1						
		- 1				
4 54, 15.00				ind a sign of the	in the first of the second	

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



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

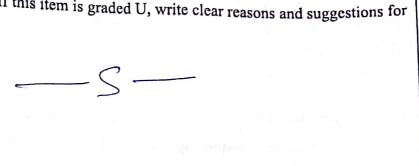
13. Road Furniture and Markings

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

Citizen Information Board Fixed:

L	Yes	No
	Yes	No

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



Observations - Quality Road Furniture and Markings:

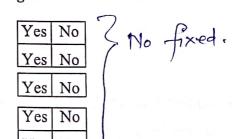
13.1.1. Logo Boards Fixed:

13.1.2. 200m. Stones fixed:

13.1.3. 1 Km. Stone fixed:

13.1.4. Guard Stones fixed on Curves:

13.1.5. Mandatory and Cautionary Signage



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):

Almost no deficiency in project noticed.

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:

No Comment.

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 – Setti	ing Out and Working Dra	wing	
a	Bench Mark and Centre Line	All Stages	S/SRI/U	
b	Availability of Working Drawing	All Stages	S/SRI/U	
		Item Grade	S/SRI/U	- U -
	Item 2 – Si	te Clearance and Grubbin	ıg	
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	
b	Number of Mandatory Tests as per prescribed frequency	All Stages	s/sri/U	
<u>с</u>	Maintenance of QC Registers	All Stages	S/SRI/U	
		Item Grade	S/SRI/U	U
- 19	Ite	em 4 – Geometrics		1
a	Road way width	2 per Km in every inspection	S/U	
b	Carriageway width	2 per Km in every inspection	S/U	
<u> </u>	Camber	2 per km	S/U	
d	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	
	matter c	Item Grade	S/U	. 5
	Item 5A - Earth Work a	and Sub-grade in Embank	ment/ Cutting	<u> </u>
a	Quality of Material for Embankment/ Sub-grade	In Stage-I, 1 per km/ In Stage- II or III, 1 per km	S/U	
b	Compaction	In Stage-I, 2 per km/ In Stage- II or III, 2 per km	S/U	
c	Side Slopes and Profile	2 per km in Stage III	S/U	Ś

	Item 5B - Earth Wo	rk in Cutting in Hilly/ Roll	ing Terrain	7.00
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	
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	NA
		Item 6 - Sub-Base		
	Quality of Material			/
a	Grain Size	In Stage- II or III, 1 per	S/U	
b	Plasticity	km	S/U	
c	Compaction	In Stage- II or III, 1 per km	S/U	
d	Total Thickness of Layer	2 per Km	S/U	
1 1 E		Item Grade	S/U	NA
-17	Item 7 - Base C	Course – Water Bound Ma	cadam	2-7
a	Grain Size of Course Aggregate	To Change III or III 1 per	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	
с	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	
е	Thickness of every layer of WBM.	2 per Km	S/U	
		Item Grade	S/U	NA.

	Item 8 - Bituminous Layer - P Level of cleanliness of WBM	ramis C		
	surface prior to applications	1 nov V	face Dressing (S	SD)
	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	l observation on the day of inspection	S/U	
10	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	
l	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	
2	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	NA.
	I	tem 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	
It	em Grade		S/SRI/U	NA
	Item 10 - Cross Drainage Work	s – Causeways of all span	s and Culverts	upto 6 m.
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	, 12/92	S/SRI/U	
t	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	
-		Item Grad	le S/SRI/U	S

	Rem 11 - Side	Drain and Catch Water D		
a	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	
Car		Item Grade	S/SRI/U	NA
	Item 12 - CC/ Semi Rigid	Pavements and Associate	d Pukka Draii	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.	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	15
		Item Grade	e S/U	
2 1	Item 13 - R	oad Furniture and Mark	ings	
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	
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	
	1	Item Grad	de 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
Item No 1	Setting Out and Working Drawing	Grade
Item No 2	Site Clearance and Grubbing	SRI
Item No 3	Quality Arrangements	SRI
Item No 4	Geometrics	SRÎ
Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	<u>S</u>
Item No 5 B	Earth Work in Cutting in Hilly/ Rolling Terrain	NA
Item No 6	Sub-Base	NA
Item No 7	Base Course – Water Bound Macadam	NA
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	NA
Item No 9	Shoulders	HA
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	NA
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	S
Item No 13	Road Furniture and Markings	SRI
	Overall Grading	\bigcup

Signature:

Name: Ramchandra Paswar

Date: ...29:12.2018.