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

	27.		·				
GENI	ERAL:	Work	is Ongoing		_		
1.1.	Date of Inspection:	DD MM	YY	24/12	2018		
1.2.	Name of State Quali	ty Monitor:	AKHIL	ESH K	VMAR		,
1.3.	District: SARAY	/ Block	GARK	1A	,	·	_
1.4.	Name of Road: Fr		pur		to madhe	upwr	
	Package No.: BRO Length: M.Km Flex 11.17558Km Estimated Cost (As clo	ible Pavement,	348 Km. CC/ot		 	= 1.758 k	2~
1.8.	Technical Sanction (Cost:	Rs.	96.67	Lakh	. 1 . 15) X
1.9.	The Work is a Case	of: New c	nnectivity	Up grac	lation	Ell 6/38	
1.10.	Terrain P	lain Rolling	Hilly				
1.11.	Date of Start of the W	ork:	13 0	8 14			
1.12.	Stipulated Date of Co	mpletion:	120	18 15			
1.13.	Actual Date of Comp			L		an pross	res
2. Progra	PHYSICAL PROG	RESS: (In case ogress:	of On going	vorks onl	Law Blogs		
	Item Comp	leted	Dates for -	Start	Completion	Delay in Months	

ltem	Completed percentage of Item	Dates for - completion	Start Date	Completion Date	Delay in Months
Earth Work		Duc			
1	80%	Actual			
CD Works	100 %	Duc			
	100 YO	Actual		:	
Sub base i/c	90%	Duc			
Shoulders		Actual	1 11		1.
Base Course (Non	- 0.16	Due -	1 ,00		
Bitu.)	50 70	Actual			
Base /Wearing		Due			
Course (Bitu.)		Actual			
CC Pavement	100%	Due			
	10010	Actual			
Signage ere	50.%	Due			
•	50.70	Actual			

QUALITY CONTROL:

...

- 3.1. Location of Field Laboratory: At. Site Ch. 175 M.
- 3.2. Quality Control Register Part-1 is maintained by: contractor

 R.J.P. Builder (I)
- 3.3. Quality Control Register Part-II is maintained by: P.I.J. E.E/RWD W./Div Chapty
- 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
90/3/12				Date
27.7	m.c. manchan	an overally rading - S,	M. A.).
20/9/17	SOM	overall grading = s,		
, i	K. Noth Verm	Overall grading - S,	M. A.	
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			5 a 1.5 % =	
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1	1			

Name and Signature of the Hend 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

à	#	Whether Bench marks @ 4 per km established (Y/N)	Locations of the Bench	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	7 <u>11</u> 1 7	-	

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

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

1	#	Whether Clearing and	Whether the material	Name the reusable material
15		Grubbing being done		obtainable from clearance or
		as per DPR and	scarifying existing work	scarification and indicate
- [or clearing operations	approximate quantity and its
ij		being disposed off	can be salvaged and	re-use by the PIU.
1		properly (Y/N)	reused (Y/N)	
1			a ma dilipro Pro-panenti di	
		√ 1 d d d d d d d d d d d d d d d d d d		
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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)	Available.	Whether adequate Equipments as per requirement of work are Available and are being used. (Y/N)
.:-		· ·	in many papers to the papers	removed to your second of the

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 P1U/Confractor
				1.1		
				-		
⊣						
-						
\dashv						
-			-	2 M		3.5
\dashv		2.5 80			3	
\dashv			at a retire of			1
+	tata a	1000	27, 130	n de de		
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-					,	
4	· y ili		. '	1		
			· 1 8 .			

# Based on exect quantities whether mandatory to conducted.	all l maintained as per provisions.	Whether QC Register Part Il maintained and test results monitored as per provisions.
Yes Partly No	Yes Partly No	Yes Partly No
Grading: Grade: S SR suggestions for improven	The state of the s	l, write clear reasons and
	\$85a ' ' '	

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	Readway Width (m)	Carriage way Width (m)	Camber in %	
1	800	6.00 m	3.75 m	31	700	5.00 m	3.75m	3.5%	
	a troppe que v Ar	wealth and apparent and all tradition	AND THE PARTY OF THE PARTY OF THE	4	charma.	indiameters a section.	Second of references to the con-	con ali menga esimenia	
L	$Y_{A^{\prime}}$	Transfer of		·		in ingramma garage ga	s.,		

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)
	-	<u></u>		ayrest	
			the special		
4					

Grade: S U-	If this item is graded U, write clear reas	sons and suggestions for
The Carly No. 11 18 2 18 2		

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)
1	500	Cross	N
.,'-			
	to be officed to a supplication of the second		1
new atte			
110	Company of the State of the Sta		

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

#	Location (RD)	whether appears to be	Adequate slope protection works executed. (Y/N)	Formation is properly dressed and traffic worthy (Y/N)
	i de la compania	est formation	-	
- 5.00		and the finite control of the second		
			and the second of	
. 111 32	Villa gardina	n d san masa sahar s	ayirti. Inggala saytawaki	in the state of th

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

Ref. Between	Longitudinal Gradient	S/U	Ref. Between RD& RD	Longitudinal Gradient	S/U
i eggé : i. e		144	y i j		
	No.	1-0	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
		11.0			- 1

Grade: S	U If this item is	graded U, writ	e clear reaso	ns and sugges	tions for
improvement					
				1	
No. 704 sime Supplier					

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.	Observed Thickness of Layer (in mm)	Prescribed Thickness provided (Y/N)
	1	1250	Q	y	У	176 mm	y
				person of the second			125
-		med 1	11/4/11				11
				026			100
	+			a parketing they want got	70 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		

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

7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

#	Location (RD)	of each.	Thickness is adequate. (Y/N)	Aggregate confirms to Grading (Y/N)	non-plastic to desired extent.	Volume of filler material percent of course	Wheth adequicompactis dor (Y/N
1	1250	U-II	7	7	(Y/N)	aggregate	y
2	1250	U-II	7	9.	4	Y	y
1 0		17			-		
,			·		THE A		21 4 W E

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

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

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 d	Location (RD)	Whether Course Aggregate confirms to grading.	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)
-	7 7 7 7 7	(Y/N)	The large section	-	
		- 1			
1-					
-				V	

Gr (Grade: SU If	this item is a	radad III	Strategy (1)	True Alberta	estions for improvement:
1,3		o.nom.	raded U. Write Ci	ear reasons	and sugg	estions for improvement:
	Single graph of				•	
- 1			-	i ja viili		
: :	en ingeneral of the second					al all and the property of the second
					:	. 1
		strict to	San San			The state of the s
		· · · · · · · · · · · · · · · · · · ·				The second series of
١.	Observations	,				The state of the s
Γ	# Location	- Workmans	ship of BT layer	PMC/BM/	MPM (iii	a case of completed works
	·(RD)	Thir	Thickness		8 Wh	ther au-Continued works
1	(1.0)	Inicknes	s in Whether	thickness	1 "11"	THE SUITACE EVENNESS IS
	-	ının	is adequa	tc. (Y/N)	** 10111	n acceptable limits. (Y/N)
_				1		•
I						
		-				
-						
_						
G	rade: S	U If this its	1	Ver in		
im	provement:	o in this ite	m is graded U, v	vrite clear re	asons and	suggestions for
				•		suggestions for
					•	
		,4		(1 + 4) (1 - 1)		
			9 -			
						,
9. (Observations -	Quality of c	26.			and the state of the state of
	T-1-14	Quanty 01 S	noulders:		1.167.16	and the discount
#	RD of	Thickness	110			
•	observation	of layer in	Whether	Whether	quality	Whether Cl.
	.07	min	quality of the	of comp	action	Whether Shoulders
	1.1		material is	workmans	ship is	being constructed simultaneously
		Water III	Acceptable.	acceptable	(Y/N)	with sub L
			(Y/N)	e		with sub-base and
		<u> </u>				base course (Y/N)
				 		_
	u <u>l</u> j				. The object	
+						
				9 - 7		

11	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)		
,						
			22	* 1		
				Co		

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 fhe	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)
	the spin make the second of the second	e en la companya de la companya del companya de la companya del companya de la co	nino di kanalan di salah s	_
		,		
		of the state of	And the second s	And Company of the Co

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.	quality of workmanship acceptable(Y/ N)
1	0-348	10.0 m	200 mm	7	Y	Y
		-		30. Y ₁ E 3		Ç. 1
	j.		+		1.	

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

			4.
4	Yes	No	re
8	Yes	Na	
	₹es	No	
	Yes	No.	1
2	Yes	No	1

and the second second		in along reacon	ns and sugges	tions for
Grade: S U	If this item is graded U	, Write clear reason		80 1 80 00 X
improvement:			•	- 75 A00000
		The second of	· · · · · · · · · · · · · · · · · · ·	
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			(F	
-F				

- 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)

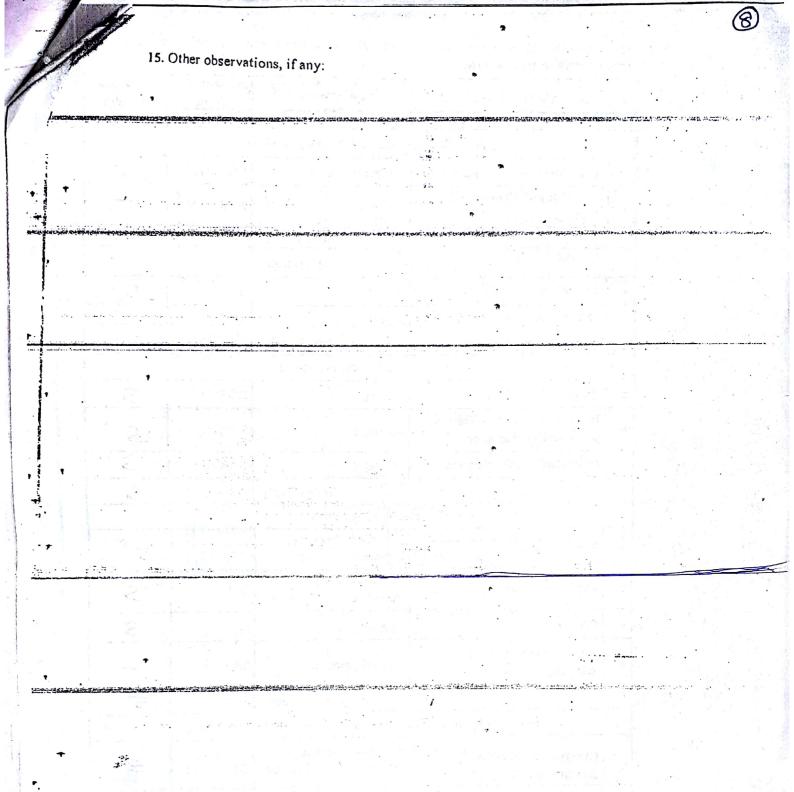
14.2. Whether the work has been completed/is in progress as per work programme or the delay has occurred. If delay has occurred, whether the liquidated damages have been withhold or recovered:

to su progress

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).



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

Iten	i of work is given below.			11.539.868
#	Sub Item for Observation	Stage of Work	Awardable Grades	Awarded Grades'
i	2	3	4 - 4 - 4 - 4	5
	Item 1 - Sett	ing Out and Working Drawin	g	
a	Bench Mark and Centre Line	All Stages	S/SRI/U	S
b	Availability of Working Drawing	All Stages	S/SRI/U	ac vegetije
		Item Grade	S/SRI/U	5
	Item 2 - 5	Site Clearance and Grubbing		
8	Site Clearance and Grubbing	Stage-I	S/SRI/U	_S
b	Re-use of Salvageable Material	Stage-1	S/SRI/U	_
		Item Grade	S/SRI/U	5
	Item :	3 - Quality Arrangements	/	· ·
A	Quality Arrangements	All Stages	S/SRI/U	ح
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	ے
c	Maintenance of QC Registers	All Stages	S/SRI/U	S.
	14 . T. F.	Item Grade	S/SRI/U	S
		Itein 4 - Geometrics		
a	Road way width	2 per Km in every inspections	S/U	5.
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	
_		1 Item Grade	S/U	5
	Item 5A - Earth Wor	k and Sub-grade in Embankn	nent/ Cutting	
a	Quality of Material for Embankment/ Sub-grade	In Stage-I, I per km/ In Stage-II or III, I per km	S/U	S
b	Compaction	In Stage-1, 2 per km/ In Stage- Il or III, 2 per km	S/U	_S
c	Side Slopes and Profile	2 per km in Stage III	S/U	
1,				

	Itom 5R - Farth Work is	Cutting in Hilly/ Rolling T	errain	
	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each kan	S/U	
) T.	Adequacy of Slope Protection	All Stages=In general	S/U	
: ``.	I Unon completion of formation	At Stage III, at 2 critical locations with maximum height of cutting in each km	S/U	
 i	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	5 (2)	
	Quality of Material	and the state of the state of		<u> </u>
 A .	Grain Size	In Stage- II or III, I per	S/U	5
b	Plasticity	km	.S/U	ع
c	Compaction	In Stage- II or III, 1 per km	s/U	_S
ď	Total Thickness of Layer	2 per Km	S/U	
		Item Grade	S/U	
_	Item 7 - Base C	Course – Water Bound Maca	dam	
a	Grain Size of Course Aggregate		S/U	S
b	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type	In Stage- II or III, I per km	s/u	_5
c	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per km	S/U	S
d	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/U	_5
е	Thickness of every layer of WBM.	2 per Km	S/U	S
l a		Item Grade	S/U	- 5

	Item 8 - Bituminous Layer - Pro	emix 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	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	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	
ſ.,	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	
• • • •		tem 9 - Shoulders		
a	Quality of material for shoulders	In Stage- II or III, I 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	1 12 1
Item Crade			S/SRI/U	1000
	Item 10 - Cross Drainage Works -	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	S
+ b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	S

	Item 11 - Sid	e Drain and Catch Water D	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	_5
	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	5
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	_
2	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U	3
	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Payement	S/U	9
	The fact of the state of the st	Item Grade	S/U	
	Item 13 - Ro	ad Furniture and Markings	•	
	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U	S
	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Stage-III	S/U	S
	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 subitem wise grading is given below:

ned i regulation	Item No.	Sub Item for Observation	Grade
• 31	Item No 1	Setting Out and Working Drawing	5
	Item No 2	Site Clearance and Grubbing	5
	Item No 3	Quality Arrangements	<u> </u>
والمراجع المساوا	Item No 4	Geometrics	
	Item No 5 A	Earth Work and Sub-grade in Embankment/ Cutting	S
	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	_5
	The same of the sa	Bituminous Layer - Premix Carpet (PMC)/	
	Item No 8	Surface Dressing (SD)	
	Item No 9	Shoulders	
	Item No 10	Cross Drainage Works - Causeways of all Spans and Culverts up to 6 m. span.	5
Sometiment of	item No:1:1		me esta
	Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	5
	Item No 13	Road Furniture and Markings	S
- or the f		Overall Grading	STATE OF THE

Signature:

Name: AKHILESH KUMAR

Date: 2911212018