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

GENERAL: Work is Ongoing Completed
1.1. Date of Inspection: DD MM I WILL DO IN THE
1.2. Name of State Quality 17
District: - KZerikiv District: - KZerikiv District: - KZerikiv District: - KZerikiv
1.4. Name of Road: From PEO Path to Govathan chak. 1.5. Package No:
1.6. Length: Km Flexible Pavements (S. L.)
1.6. Length:Km Flexible Pavement 9: 200 Km. CC/other Pavement 9: 200 km=
1.7. Estimated Cost (As cleared by GOI): Po 61, mo?
1.8. Technical Sanction Cost: P.S. 61.76 Lakh Lakh
1.9. The Work is a Case of: New connectivity Up gradation
1.10. Terrain Plain Rolling Hilty
11. Date of Start of the Work: 13 00 17
1.12. Stipulated Date of Completion:
.13. Actual Date of Completion (if work completed):
PEYSICAL PROGRESS: (In case of On going works only) Construction
rogramme and Physical Programme (211 cuse of On going works only) Construction

Item	Completed	Dates for .	Start	- h	
To division to	percentage of Item	completion	Date	Completion	Delay in
Earth Work	1702	Due -	Date	Date	Months
CD Works	106	Actual	 	 	
CD WOIKS		Due		 	
Sub base i/c		Actual			
Shoulders	100 7	Due			
Base Course (Non	1007	Actual		 	<u> </u>
Bitu.)	1002	Due		2007	
Base /Wearing	1006	Actual		25 U	
Course (Bitu.)	. —	Due		1041-A-	·
CC Pavement	— —— —————————————————————————————————	Actual			· · · · · · · · · · · · · · · · · · ·
vinen	· ,	Duc			
		Actual			
Signage etc	357	Due			
- <u> </u>		Actual			

QUALITY CONTROL:

- Location of Field Laboratory: Goverthan Chak Village.

 Quality Control Register Part-I is maintained by: Control rector-
- 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	Inspected	Observations	Action Taken by PIU with
Visit	Ву		Date
	. :		
		*	
		## **	
		.	

Name and Signature of the Head of PIU, Date: 29.12.18 Swell Rubifal.

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:	П	Ш

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

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

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

Banch ornarie not found. It should be on accused

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

#	Material obtained is	available from scarifying existing work	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.
	Y). }	·

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

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)
	Υ		γ

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. requ	of Tests ired	No. of Tests Conducted by PIU/Contractor
	 						110/Contractor
_	 		<u> </u>]_ _		
			·	 	┼─-	- 	<u> </u>
	 						
	 				<u> </u>		
					<u> </u>		<u> </u>
	 			-	<u> </u>		
					├		
_			-				-
	<u></u>	<u></u>		-	<u> </u>		
# `	Based on quantities wandatory conducted.	vhether	all I mair ests provis	fer QC Registentained as per sions.	er Part	II maintai	C Register Part ned and test nitored as per
_	Yes P	artly No] [[Yes Partly N	lo.	Voc	Dorth No.

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

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	Randway Width (m)	Carriage way Width (m)	Camber in %
100	6.0	3.30m	21/1				
					<u> </u>	<u> </u>	
/						<u> </u>	<u> </u>

Observations - Super-elevation and Extra Walening at curves.

Ref. RD	Super Elevation	Extra Widening provided (Y/N)	Ref. RD	Super Elevation	Extra Widening provided (Y/N)
			- A - A -		
			17 17	<u> </u>	
				<u></u>	

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

<u></u>			_					
Grad	k:	S	U	If this ite				
Sug	stice	s for in	aprovem	ent.	n is graded	U, w	Tite clear reas	DS and
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		-						
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Obsam								
~ 53C1	-	-Work	manship	for Emba	nkment an	d C	b-grade Cons	
# Laca						u ou	D-grade Cous	truction:
		برسب	L IVIVIN	Field	T			
-	"		s per	Moisture	Field Den	<u>De</u>	gree of Comma	ction
	- 1	100	ord)	Content	KN/m ³	• •••	Dry Density KN/m	Compaction
1				 	L_		1214111	adequate.
┪								(Y/N)
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proveme		_] II	this item	is graded l	J. Write cles			
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rvation -		~ море					·	
Locat	ion (1		Whether	Side Slope		 _		
			Satisfact	ory (YAN)	3	Wi	nether profile is	;
1 200	m	T		11		Sat	isfactory (Y/N)	, 1
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Observations - Earth work in Hilly/Ralling terrain or high Embankments:

#	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	Adequate protection executed. (Y	work	Formation is diessed and worthy. (Y/N)	properly traffic
		•		,		
			NA	6		
						-

Observations - Longitudinal Gradientin case of road in hilly/relling terrain:

Ref. Between RD& RD	Longitudinal Gradient	SEU	Ref. Between RD& RD	Longitudinal Gradient	S/U
			11		
				-	
					

Grade: S U If this item is graded U, write clear reasons and sug	gestions for
•	

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)
_	200m	7	y	У	260 mm	200000
	 -					
		<u> </u>		<u> </u>		

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

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)
	200714	7 8 th 1001	Y.	γ	Y		У
				•			

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

Work is in progress. Work has Completed up to the level of Rase Course i.l. WIM.

Surface is not even and not properly Combered. It requires to make surface even before Carpeting.

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

Surface of WIIM layer is not even and not profesly Cambered.

Of requires to make beenfale even before Caupethy.

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.):

4 1

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

NA

In case of PMC/BM/MPM/ Seal Coat

In e	case of PMC	/BM/MPM/ Se	al 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)

· 1	Grade:	SU If thi	S item :-			<u> </u>		
i	mprov	ement:	- reciti is	graded (J, write clear	reason	ns and suggestions for	
- 1							with suggestions for	_
- 1			•					
- 1 -								
		•					•	
- 1								
- 1								
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Ob	servati	one - 11/					PM (in case of	
con	nleted	want wor	kmanshi	p of BT	laver DAGO	^		
#	Toon	works):		-	-ryer FMC)	RWW	PM (in case of	
1 "	Local	- L		ickness		_		
1 1	(RI) Thic	kness in	When		Wh	ether surface evenness is	_
f4			nm .	wheth	er thickness	With	in acceptable limits. (Y/)	
		7		18 adeq	uate. (Y/N)	l -	an acceptable limits. (Y/I	(}
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Grade	. 6	U If	<u></u>					7
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prov	ement.	<u>:</u>		8	o, write cle	ear reas	sons and suggestions for	7
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Anzei	rvation	s - Quality	of Sha-					
T				iders:				
RD		of Thicknes	. 377					
obse	rvation	of layer i	1	her	Whether	Oue lie		
1		mm		y of the	of compa	quanty		
1		******	mater	ial is	work	ction	OCENE COnstructed	
1		1	Accep	otable 20	workmans	nib is	simultaneously	
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 -		<u> </u>	(Y/N)		acceptable.	(Y/N)	With out 1	
1			+>-//-		<u> </u>		with sub-base and	
			1				base course (Y/N)	
			T					
			 					
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			[Γ		 -∔		

10.	Cross Drainage	Works:	Observations -	Qualit	y 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)
		losed Howard	У	Y
	<u> </u>			
<u></u>	······		<u> </u>	

Grade: S SRI U If this item is graded SRI/U, write clear reasons and sug	gestions
for improvement:	. —
·	

11. Side Drains and Catch water Drains: Observations:

_#	Reference of	RD at	Whether general quality	Whether side drains
	RDs where side	which	of the side drains/ catch-	are integrated to
1	drain	observation	water drains is	cross drains. (Y/N)
			Acceptable.	
	Constructed.	Made.	(Y/N)	
	.a *		. A	
	4	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 Prains:

#	Reference of		Th	ickness	l Community	
	RDs, CC/SR	which	•		General	General
	Pavements	observation	in mm	Acceptable (Y/N)	quality o material i	f quality of workmanship
	Provided.	on made.			Acceptable	Workmanship
-				·	CVAD	acceptable(Y/
					(Y/N)	N)
			-NA			
1					· ·	
╁╼╂				. 7		
_		, 	1		_ <u></u>	

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:	to clear leasons and suggestions for
·	

Road Furniture and Markings 13.

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

Main Informatory Board Fixed:

Citizen Information Board Fixed:

Grade: SVU 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:
- 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

Yes No Yes No

Yes No

Yes No

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

- General Observations of SQM, (including the observations made during the 14. 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 orrecovered:

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).

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	Sings of Work	Awardabie Grades	Awarded Grades					
1	2	3	4	5					
	Item 1 – Setting Out and Working Drawing								
2	Bench Mark and Centre Line	All Stages	S/SRI/U	SPI					
b	Availability of Working Drawing	All Stages	S/SRI/U						
	· ·	Item Grade	S/SRI/U	SRJ					
Item 2 – Site Clearance and Grubbing									
2	Site Clearance and Grubbing	Stage-	S/SRI/U	_\$					
b	Re-use of Salvageable Material	Stage-1	S/SRI/U	۲,					
	· · · · · · · · · · · · · · · · · · ·	Item Grade	S/SRI/U	Ω					
	Item 3 -	Quality Arrangements							
<u>a</u>	Quality Arrangements	All Stages	S/SRI/U	S					
ь	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	SÞX					
e	Maintenance of QC Registers	All Stages	S/SRI/U						
		Item Grade	S/SRI/U	26.I					
	Ite	m 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	2					
c	Camber	2 per len	S/U	V					
d	Super-elevation & Extra Widening at Curves	l curve in each km	S/U	U					
	<u> </u>	Item Grade	S/U	SRI					
	Item 5A - Earth Work a	nd Su l-grad e in Embanki	ment/ Cu tting						
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-II, 2 per km/ In Stage-II or III, 2 per km	S/U	2					
c	Side Slopes and Profile	2 per km in Stage III	S/U	2					

		Hem Sh - En	rth W	ork in Cutting in Hi	lly/	Rolling To	 errai	n	
	a	Stability and Workmansi Cut Slopes	hip of	Stage I and II, at 2 critical locations we maximum height of cutting in each km	ith f				 _
1	b	Adequacy of Slope Protect	ction	All Stages - In gene		S/U		+-+	-
	c	Upon completion of formation, dressing, traffic worthiness	ation	At Stage III, at 2 cr locations with maxi height of cutting in each km		n S/U		1112	-
d		Longitudinal Gradient		Stage II/III - 1 critica and fairly represental stretch of 200m in ea Km	42	S/U		 	
-				Item Gr	ade	S/U		/	4
_	7	han Pi		tem 6 - Sub-Base		13,0			_
	- f -	uality of Material					7	 -	_
<u>a</u>	16	rain Size		n Stage- II or III, 1 pe		S/U			_
b -	Pi	asticity	☐ k	im	r	 		<u>_S</u>	
c	Co	empaction	Ī	Stage- II or III, I per	-	S/U	_	<u>_s</u>	
i 	То	tal Thickness of Layer		m per Km		S/U	\perp	ع	
					4	S/U	1	260 anin	1200
		ltem 7 - Base		Item Grad	e \	S/U			1
	Gra			se – Water Bound M	aca	dam			
- 1		for Liquid Limit and	_ jn :	Stage- II or III, 1 per	15	S/U		S	
1	iggn	egates are crushable type	km	omger it of III, I per	s	/U	1	S	
V	sses VBN 		in S km	tage- II or III, 1 per	S/	'U	 -	 	
St	raig	ce Evenness using ht edge	In co	ompleted WBM 2 per km	S/I	U ·			
w	BM	ness of every layer of	2 per		S/t	;	<u>`</u>	37704	
		·		Item Grade				P.I	

ļ	Iter (? - Difuminous Layer Level of cleanliness of WBM		Dai face Die	Sing (2D)
*	surface prior to application of bituminous layer	l per Km	S/U	1
Ь	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)	l test on the day of inspection	S/U	NA
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	1
f	Thickness of layer	2 per Km	S/U	1/
g	Surface Evenness in case of completed BT work	2 per Km	S/U	1/
		S/U	11	
		Item 9 – Shoulders		
1	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	SPA
<u> </u>	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	SPI
:	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	SPI
	n Grade		S/SRI/U	SPI
	tem 10 - Cross Drainage Works	 Causeways of all spans span. 	and Culverts	upto 6 m.
,	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	S
	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	All Stages	S/SRI/U	SPH
		Item Grade		<u> </u>

	Hom H - Side Drain and Catch Water Drain								
-	 - -	General quality of Side Dra Catch Water Drains and the integration with CDs.	All Stages	aler	Drain S/SRI/U				
	┝	-		Item G	ade	S/SRI/U			
- }		Item 12 - CC/ Semi R	Ligid	Pavements and Assor	ún te	d Pukks Di			
	a 	Stone/ Concrete Block Pavement etc.	æ,	In Stage- II or III, 1 p 100 m. Length of Pavement	ar	S/U			
-	b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	- 1	In Stage- II or III, I per 100 m. Length of Pavement		S/U	1/		
e	:	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	I	n Stage- II or III		S/U	NA		
đ		Thickness of Layer	l 14	Stage-II or III, I per 00 m. Length of avement		 S/U	/		
-				Item Grad		/U	/		
	T	Item 13 - F	Coad	Furniture and Mark	ings				
a 	1	Citizen Information Board, Main Informatory Board, Quality and whether fixed luring construction.		ge-;	s/		S		
b	7	ogo boards, 200 m stones and m stones, quality and thether fixed after completion.	Sta	ge-III	S/I	J	2		
:	bo	hether the information in pards is given in local nguage.	Stag	re-I and III	S/U	,			
	<u> </u>			Item Grade	S/U				

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	V	
Item No 2	SPI		
Item No 3	tem No 2 Site Clearance and Grubbing tem No 3 Quality Arrangements		
Item No 4	Geometrics	SRI	
Ton Susa	いいが かいがん 発動 連門 コー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		
TEN ME SEE	au Work in Canding in May Realting Reason		
ition for r			
1090 707	280 Course - Water Boung No saram		
CONTRACTOR OF THE PARTY OF THE	stree Dressing (SD)		
Item No 9	Shoulders	SAZ	
Item No 10	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 Pakka Drains		
Item No 13	Road Furniture and Markings	S	
	Overall Grading	SRI	

Signature: Lond
Name: E.E. RWD, DUMPLAON
Date.. 29:12:10