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

CEN	Work is Ongoing Completed
1.1. 1.2. 1.3. 1.4. 1.5.	Date of Inspection DD MM YY 28/12/2019 Name of State Quality Monitor: Arron Kumar singh District: Kuishali Block: Jantha Name of Road: From Yobi Asthun To Lozy to We Amershi Asthun To Lozy Package No.: mm6sy(GEN)
1.6. Totab	Length: 0.39Km Flexible Pavement P.330Km. CC/other Pavementm. =
1.7.	Estimated Cost (As cleared by GOI): Rs. 49.58/- Lakh
1.8.	Technical Sanction Cost: Rs. 49.58 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: 31 08 15
1.12.	Stipulated Date of Completion: 30 08 16
1.13.	Actual Date of Completion (if work completed): work in progress
2. Progra	PHYSICAL PROGRESS: (In case of On going works only) Construction

Item	Completed	Dates for	Start	Completion	Delay in
•	percentage of Item	completion	Date	Date	Months
Earth Work	701	Due			
	7.0 7	Actual			
CD Works	MIL (DY)	Due			
	MIL (DY)	Actual			
Sub base i/c	90%	Due			
Shoulders	907	Actual			
Base Course (Non	1001.	Due			
Bitu.)	1004.	Actual		<u> </u>	
Base /Wearing	100%	Due			
Course(Bitu.)	100	Actual			
CC Pavement	701	Due /			
CC I a voment	70%	Actual			
Signage etc	40%	Due			
Signage etc	907	Actual			

3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory:
- 3.2. Quality Control Register Part-I is maintained by:
- **3.3.** Quality Control Register Part-II is maintained by:

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
	,		

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-vp by SQM, use additional sheets, if required.)

1.	(UR)		ge of Work: I II I	II			
1.	SETTING	G OUT AND W	VORKING DRAWING	For all stages of work			
#	Whether Bench marks @ 4 per km established (Y/N)	Exact Locations of the Bench Marks	Whether Center Line Carriage Way accurate	of Whether properly prepared Working and Drawing for the work under progress is			
	Υ	250 M	Υ	Υ			
Gr sug	Grading: Grade: S SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:						
2.	SITE CL	EARANCE A	ND GRUBBING: <u>For S</u>	tage I of Work			
#	Grubbing as per Material	being done a DPR and s obtained is c sposed off c	Whether the material available from scarifying existing work or clearing operations can be salvaged and reused (Y/N)	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.			
		4	-	_			
Gr sug	ading: Grade	e S SRI U improvement:	If this item is graded SI	RI/U, write clear reasons and			
		-	`s'				

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

1	Established (Y/N)	avanaoje.	Whether adequate Equipments as per requirement of work are available and are being used. (Y/N)
	Υ	All necessary equip available on giti	med.

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)

 Work	Quantity	Name Test	of	No. of Tests required	No. of Tests Conducted by PIU/Contractor
	11-1 - (ivailable			
	,				

#	quantities whether all	Whether QC Register Part I maintained as per provisions. Yes Partly No	Whether QC Register Part II maintained and test results monitored as per provisions. Yes Partly No
	Υ.	٧	Y

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

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 %
0.25	5.90	3.75	2.5%				
0.45	6.0 M	3.75	2.2%				

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)
0.45	Å	Υ		,	

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

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)
	ŀ	,	
	0.25	Silt clay	Υ
	0.45	Silt clay,	Y.
W 1007 T 11			

uggestion	s for improvement	nt:	s graded U, write	clear reasons a	ilid
		` <i>3'</i>		,	
		,			
servation	-Workmanshi	p for Embar	ıkment and Sub	o-grade Consti	ruction:
Location	n MDD kN/m ³			gree of Compac	
(RD)	(As per record)	Moisture Content	Field Density kN/m ³	Dry Density kN/m ³	Compaction adequate.
			. ,		(1/11)
rade: S	U If this in	tem is gradeo	d U, write clear r	easons and sug	gestions for
ervation	– Side slopes at	ıd profile:			

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

#	Location (RD)	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)
		N. A.		

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
				_	
	N. 4				

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

6. Sub-Base:

Observations - Quality of Material and Workmanship:

	to Grading. (Y/N)	from plasticity angle. (Y/N)	compaction is adequate. (Y/N)	Thickness of Layer (in mm)	Thickness provided (Y/N)
0.25	4	Y	۲	100 MM	Υ
0.45	γ.	Y.	γ.	loomm.	Υ.
		0·25 Y	(Y/N) angle. (Y/N) 0·25 Y Y	(Y/N) angle. (Y/N) (Y/N) (Y/N)	(Y/N) angle. (Y/N) (in mm) (Y/N) 0.25 Y Y Y 102 MM

Grade: S U	If this item is graded U, write clear reasons and suggestions
	`\$'

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)	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)
-	0.25	75 mm	Υ.	Υ	Y.	abbrobato -	Y,
L				-			

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

Surface even and Smooth.

Grade: S U	If this item is graded U, write clear reasons and suggestions for
improvement:	
	` <i>\$</i> '

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.):

satisfactory.

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

Satisfectory.

In case of PMC/BM/MPM/ Seal Coat

Γ			G DIVITIVITY S			
	#	Location	Whether	Whether the	Write Mixing	Write Laying
1		(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)		(1/14)	
H			(1/11)			limits. (Y/N)
				= 1		
Γ						
L						
-						
				No. 1		
-						
1	100					

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

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

wor	nsj.			
#	Location	Thi	ckness	Whether surface evenness is
	(RD)	Thickness in	Whether thickness	within acceptable limits. (Y/N)
		mm	is adequate. (Y/N)	
	0.25	22147	Υ.	Υ,

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestions for
m.p.o	
	`s'

9. Observations - Quality of Shoulders:

# RD of observation	Thickness o' layer in mm	VV 110 012 01	of compaction	whether Shoulders being constructed simultaneously with sub-base and base course (Y/N)
	W	ork is in	Porgrek.	

10.	Cross Drainage	Works:	Observations -	Ouality 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 workmanship acceptable. (Y/N)	of is
		No for	Vilhon		

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

11. Side Drains and Catch water Drains: Observations:

#	Reference of RDs where side drain constructed.	RD at which observation made.	Whether general quality of the side drains/ catchwater drains is acceptable. (Y/N)	are integrated to
		Not- fo	und.	
				7

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

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

#	Reference of RDs, CC/SR	RD at	-	kness	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)
-	,	0.45	19044	Υ	Υ	γ
-						

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

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

Road Furniture and Markings

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

Main Informatory Board Fixed:

Yes No

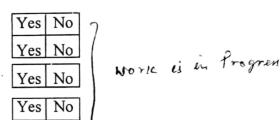
Citizen Information Board Fixed:

Yes No

Grade: S U 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



No

Yes

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:

In 100 m longth only G.s.B work in Progress.

Contractor Said This length were stopped due to land dispute

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
	2	3	4	Grades 5
	Item 1 – Sett	ing Out and Working Dra	wing	
a	Bench Mark and Centre Line	All Stages		
b	Availability of Working	711 Stages	S/SRI/U	5
	Drawing	All Stages	S/SRI/U	\$
_		Item Grade	S/SRI/U	۷,
_	Item 2 – Si	ite Clearance and Grubbir	ng	
<u>а</u> 	Site Clearance and Grubbing	Stage-I	S/SRI/U	S
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	
		Item Grade	S/SRI/U	S
	Item 3	- Quality Arrangements	or or a	>
a	Quality Arrangements			
12		All Stages	S/SRI/U	S
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	S
c	Maintenance of QC Registers	All Stages	S/SRI/U	S
		Item Grade	S/SRI/U	S
	It	em 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	S
:	Camber	2 per km	S/U	S
i	Super-elevation & Extra Widening at Curves	1 curve in each km	S/U	5
		Item Grade	S/U	S
	Item 5A - Earth Work a	and Sub-grade in Embank	ment/ Cutting	
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	-
2	Side Slopes and Profile	2 peckm in Stage III	S/U	-

	Itani Sp.			
	rtem 5B - Earth Wor	rk in Cutting in Hilly/ Roll	ing Terrain	Times adapted a history age.
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	Spaces
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		1
	Quality of Material			
a	Grain Size	In Stage- Il or III, 1 per	S/U	S
b	Plasticity	km	S/U	S
c	Compaction	In Stage- II or III, 1 per km	S/U	S
d	Total Thickness of Layer	2 per Km	S/U	S
		Item Grade	S/U	S.
	Item 7 - Base C	ourse – Water Bound Ma	cadam	
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, 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
8	Thickness of every layer of WBM.	2 per Km	S/U	S
	A TOP TO STATE OF THE PARTY OF	Item Grade	S/U	5

	Item 8 - Bituminous Layer - I	Premix Carpet (PMC)/ Sur	foce Describer	(CD)
a	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U	(SD)
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	c,
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	S
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	S
g	Surface Evenness in case of completed BT work	2 per Km	S/U	S
		Item Grade	S/U	S,
	Ji	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	_
Iter	m Grade		S/SRI/U	_
]	Item 10 - Cross Drainage Works	s – Causeways of all spans sρan.	and Culvert	s upto 6 m.
a	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 D)roin	
a	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	-
,	Y	S/SRI/U	_	
	Item 12 - CC/ Semi Rigid	Pavements and Associate	d Pukka Drai	ns
a	Stone/ Concrete Block Pavement etc.	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	S
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	S
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	S
		S/U	5	
	Item 13 - Re	oad Furniture and Marki	ngs	
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	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	n No 1 Setting Out and Working Drawing			
Item No 2				
Item No 3	m No 3 Quality Arrangements			
Item No 4	em No 4 Geometrics			
Item No 5 A	tem No 5 A Earth Work and Sub-grade in Embankment/ Cutting			
Item No 5 B	Earth Work in Cutting in Hilly/Rolling Terrain	12.24		
Item No 6	Sub-Base	C		
Item No 7	Base Course - Water Bound Macadam	,5		
Item No 8	Rituminous I aver Premis C. (M) (C)			
Item No 9	Shoulders	_		
Item No 10	Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.			
Item No 11	Side Drain and Catch Water Drain	-		
tem No 12 CC/ Semi Rigid Pavements and Associated Pukka Drains		5		
Item No 13	Road Furniture and Markings	S		
Overall Grading				

Signatu	re:	zhe'z		
Name:	(0-6		ICUM AR	SIMGI

Date: