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

Work is Ongoing Completed	
1.1. Date of Inspection: DB N121 Y8 1.2. Name of State Quality Monitor: En Block: Fatehour 1.3. District: Graya Block: Fatehour 1.4. Name of Road: From L144 Trawan road to Haridatta 1.5. Package No.: BR-12R-909 1.6. State Pavement O: 164Km. CC/other Pavement	
Tarala, Colk m	
1.7 Estimated Cost (As cleared by GOI).	
1.8. Technical Sanction Cost: Rs. 25.75 & Lakh 1.9. The Work is a Case of: New connectivity Up gradation	
1.10. Terrain Rolling Hilly	
1.11. Date of Start of the Work: 23 10 17 22 10 18	
1 12 Stipulated Date of Completion.	
 1.13. Actual Date of Completion (if work completed):	
2. PHYSICAL PROGRESS: (In case by on some	
Programme and Physical Progress:	>

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	1001.	Actual			
CD Works	1007.	Due Actual			
Sub base i/c	1007.	Due Actual			
Shoulders Base Course (Non	1007.	Due Actual			
Bitu.) Base /Wearing	100%	Due Actual			
Course(Bitu.)	100%	Due Actual			
Signage etc	50-1.	Due Actual			

3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory: Handalta
- 3.2. Quality Control Register Part-I is maintained by: Con tractor
- 3.3. Quality Control Register Part-II is maintained by: P. T. U.

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
VISIC			
			1
		· /	
		/ · · ·	

Name and Signature of the Head of PIU, Date:.

ज्यंपालक बजियन्ती सामीण कार्य विभाग सामे प्रमण्डल वर्ग

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:	T	11	Ш
----------------	---	----	---

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

#	Whether Bench marks @ 4 per km established (Y/N)		-Granged with Marker	Drawing for the work
	Y	@250m interval	У	У
	rading: Grade	: S SRI U I	f this item is graded SRI/U	, write clear reasons and

Grading: Grade: S SRI U	If this item is graded SRI/U, write clear reasons and
suggestions for improvement:	5

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

		reused (Y/N) N. A -	N. A -
#	Grubbing being done as per DPR and	available from	Name the reusable material obtainable from clearance or scarification and indicate approximate quantity and its re-use by the PIU.

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

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

Observations about	Field	Laboratory:
Observations about		

#	laboratory Established (Y/N)	available.	Whether adequate Equipments as per requirement of work are available and are being used. (Y/N)
	У	Sieve, Balance Gove Cutter, Tape etc	y

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-1)

#,	Item of Wor Executed	k Quantity	Name of Test	No. of Tests required	No. of Tests Conducted by PIU/Contractor
	OSC Reg	ster la	LIE	Part II	
	raintaine	d as	per po	visim	
_					

#	quantities whether all	Whether QC Register Part I maintained as per provisions. Yes Partly No	Whether QC Register Part Il maintained and test results monitored as per provisions. Yes Partly No
	У	У	У

Grading: Grade: SRI U If this item is graded SRI/U, write clear reasons and suggestions for improvement:
5

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 %
350m	6.00	3.75	3.4%				

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)

	i diana for
Grade: S U	If this item is graded U, write clear reasons and suggestions for
improvement:	
	5

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)
		CL	У

	ggest	tions fo	r improvem	ent:	6			
						,		
					×			
_								
bs	serva	ation –	Workmans	hip	for Emban	kment and Sub	-grade Constr	uction:
1		cation	MDD kN/	m^3	Field	Deg	gree of Compac	tion
	(F	RD)	(As per record)		Moisture Content	Field Density kN/m ³		
_								1
_						THE STATE OF THE S		
	rade	e: S	U If th	nis it	em is grade	d U, write clear	reasons and sug	ggestions for
)b	serv	vement	: - Side slope	es ar	nd profile:	S		
) b	npro	vement	::	es ar	nd profile:	Slopes	Whether pro	ofile is
b	serv	vement	- Side slope tion (RD)	es ar	nd profile:	Slopes		ofile is
b	serv	vement	: - Side slope	es ar	nd profile:	Slopes	Whether pro	ofile is

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. A				

Grade: S U	If this item is graded U, write clear rea	asons and suggestions for
improvement:	N. A	
4		

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)
	350	У	У	У	200	Y (200)

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:

#	(RD)	of each	Thickness is adequate. (Y/N)	Aggregate confirms to Grading (Y/N)	Filler material is non-plastic to desired extent.	Volume of filler material percent of course	Whether adequate compaction is done. (Y/N)
	350	75	у	У	(Y/N) . Y	aggregate 22%	У

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

Surface is even

Grade: S U improvement:	If this item is graded U, write clear reasons and suggest	stions for
	S	
4		

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.):

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

	ln	case of PMC	JBM/MPM/ S	eal Coat		
ſ	#	Location	Whether	Whether the	Write Mixing	Write Laying
1		(RD)	Course	binder is of	Temperature	Temperature
1		3	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)			limits. (Y/N)
-						
	- 1					
-	-					
		1				
-	_					
L						
		1911/2012/2014—05 11 12 11				

шр	ide: S U	it this item i	s graded U. wri	te clear reasons a	nd suggestions for
_					
Obs <i>wor</i>	servations - W rks):	/orkmanship	of BT layer PM	IC/BM/MPM (in	case of completed
#	Location		ickness	Whether su	rface evenness is
		Thickness in mm	Whether thickn is adequate, (Y		table limits. (Y/N
	350	22	У	У	
	ade: S U	If this ite	m is graded U, w	rite clear reasons a	and suggestions fo
ımı	provement:		C		
			ر		
9.	Observation	s - Quality of	Shoulders:	21	
9.	Observation RD o	Thickness	Whether	Whether quality	Whether Shoulde
		Thickness of layer in	Whether quality of the	of compaction	being construct
	RD o	Thickness	Whether quality of the material is	of compaction workmanship is	being construct simultaneously
	RD o	Thickness of layer in	Whether quality of the material is	of compaction	being construct simultaneously with sub-base a
	RD o	Thickness of layer in	Whether quality of the material is acceptable.	of compaction workmanship is	being construct simultaneously with sub-base a
	RD o observation	Thickness of layer in	Whether quality of the material is acceptable.	of compaction workmanship is	
	RD o observation	Thickness of layer in	Whether quality of the material is acceptable.	of compaction workmanship is	being construct simultaneously with sub-base a

Quality of CDe.
ſ

#	RD at which CD is located	Type of CD	Whether quality of the material is acceptable. (Y/N)	Whether quality of
-	325 m	1000mm4PC	y	у

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

11. Side Drains and Catch water Drains: Observations:

#	Reference of RDs where side drain constructed.	Whether general quality of the side drains/ eatch- water drains is acceptable. (Y/N)	

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

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

#	Reference of RDs, CC/SR	227	***************************************		General	General
	Pavements provided.	which observati on made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable. (Y/N)	quality of workmanship acceptable(Y/ N)
-	120-284	14-5	100	À	у	У
					3	
-						

Comments about adequacy	of face/mai	n walls, v	vings and	retaining	walls:
-------------------------	-------------	------------	-----------	-----------	--------

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

13.	Road	Furniture and	d Markings
-----	------	---------------	------------

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

Main Informatory Board Fixed:

Yes No Yes No

Citizen Information Board Fixed:

Grade: S 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	7
Yes	No	moin

Yes No

Grade: S 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 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:

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 Draw	ing	
a	Bench Mark and Centre Line	All Stages	S/SRI/U	S
b	Availability of Working Drawing	All Stages	S/SRI/U	S
		Item Grade	S/SRI/U	S
	Item 2 – Si	te Clearance and Grubbin	g	
a	Site Clearance and Grubbing	Stage-I	S/SR1/U	_
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	
		Item Grade	S/SRI/U	_
	Item 3	- Quality Arrangements		
a	Quality Arrangements	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
	Ī	tem 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
c	Camber	2 per km	S/U	S
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 Emban	kment/ Cutti	ng .
а	Quality of Material for Embankment/ Sub-grade	In Stage-1, 1 per km/ In Stage- II or III, 1 per km	S/U	S
b	Compaction	In Stage-1, 2 per km/ In Stage- II or III, 2 per km	S/U	S
c	Side Slopes and Profile	2 per km in Stage III	S/U	S

	Item SI - Earth We	rk in Catting in Hilly Roll	ing Termin	•
	Samiling and Workenaming of Our Stopes	Stage I and II, or 2 orthod locations with masseman hogger of century or each lim	90	_
	Altegracy of Some Protestion	All Stages - lit general	st	
2	Commonwealth of Tornation culture, dressing, traffic worthness	to Stage III, it I ortical breathers with maximum begit of outling it each ten	SU	_
ı	Congrations Consists	Stage It III - I critical and fairly representative streets of 200m in each fun	SU	-
		Item Confe	\$0	5
		hen 6 - Suft-Base		
	Quality of Waterfall			
	Gran Syra	and the second second	SU	5
2	Pasien	in Stage-II or III. I per km	SU	5
-	Commercian	In Stage-II or III. I per	SU	5
4	Total Tridges of Lave	Lin I per Kin	SU	5
		Irem Grade	50	S
-	hen 7 - line (Course - Water Bound Ma	cadam	
2	Crain Size of Course Foregrephic		SU	S
3	Test for Laund Lamit and Particity index in sale fine apprepare, are crustable type	in Snages-II or III. I per km	st	_
ď	Volumette Anatosis for assessment of compaction of VEW	In Stage- IV or IIV. I per kin	st	5
£	furface Eventers many margin salge	in completed WBM 1 lease per km	50	5
	Tindiseou of every layer of WBM	I per Km	SU	5
		frem Grade	5/8/	5

	Item 8 - Bituminous Layer –	Premix Carpet (PMC)/ So	ırface Dressin	ıg (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	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)	I test on the day of inspection	S/U	
e	Bitumen Extraction Test if PMC is complete	I 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
		S/U	S	
		tem 9 – Shoulders		
a	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	S
b	Degree of compaction	In Stage- II or III, 1 test per Km	S/SRI/U	S
c	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	S
	m Grade		S/SRI/U	S
	Item 10 - Cross Drainage Works	 Causeways of all spans span. 	and Culverts	upto 6 m.
1	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	S
		Item Grade	S/SRI/U	S

_	Item 11 - Side	Drain and Catch Water I	Drain	
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 Dra	ins
a	Quality of Material - Concrete, 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	S
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
		Item Grade	S/U	S
	Item 13 - Ro	oad Furniture and Markin	igs	
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	S
c	Whether the information in boards is given in local language.	Stage-I and III	S/U	S
		Item Grade	S/U	5

29/12/18

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
ltem No 2	Site Clearance and Grubbing	
Item No 3	Quality Arrangements	S
Item No 4	Geometries	S
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	5
Item No 7 Base Course – Water Bound Macadam		S
Item No 8	Bituminous Layer – Premix Carpet (PMC)/ Surface Dressing (SD)	S
Item No 9	Shoulders	S
Item No 10	Cross Drainage Works – Causeways of all spans and Culverts upto 6 m. span.	S
Item No 11	Item No 11 Side Drain and Catch Water Drain	
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	S
Item No 13	Road Furniture and Markings	S
	Overall Grading	S

Signature:

Name:

CE PAHKAJ

120 10-