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

~	
	ENERAL: Work is Ongoing Completed
1.	1. Date of Inspection [ ]
1.2	Name of State Quality Monitor:
1.3	District
1.4	Name of Road: From kartinaryapur
1.5	PIDET . PMNSY PAGE to MA
1.6.	Length 0.700 pirari village
Tot	Length: 0.50km Flexible Pavement, 0.30km. CC/other Pavement .0.89m.
1.7	Sanation 1.0. Rapm.
	Cost (As cleared by GOD)
1.8.	Technical Sanction Cost
1.9.	105. (01 82 2 2 2 2 - 1)
1.7.	Work is a Case of: New commercial
1.10.	Formaria
	Plain Rolling Hilly
1.11.	Date of Start of the Work:
1.12	Stipulated Date of Co. 1
515.44	Date of Completion:
1.13.	Actual Date of Completion (if work completed):
2.	PHYSICAL PROPERTION (If work completed):
Droom	THISICAL PROGRESS: (In case of On a .
rogra	Actual Date of Completion (if work completed):  PHYSICAL PROGRESS: (In case of On going works only) Construction  Banapa

Item	Completed percentage of Item	Dates for	Start	Completion	D 1
Earth Work	Percentage of Item	Precion	Date	Date	Delay in
	90%	Due		Date	Months
CD Works		Actual			
	100 %	Due			3.33
Sub base i/c		Actual	111.		
Shoulders	100%	Due			
Base Course (Non		Actual			
Bitu.)	100%	Due			No.
Base /Wearing		Actual			
Course(Bitu.)	100%	Due			
CC Pavement		Actual	-		
	100%	Due			
ignage etc		Actual			
MAC INTO		Due			
		Actual			

## 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

#	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)	prepared Working Drawing for the work under progress is
	Y	0.00 m	Y	

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

#	Grubbing being done as per DPR and 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.
	7	7	

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



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

#	Whether Field laboratory Established (Ý/N)	List the equipments available.	per requirement of work are available and are being used.
	Not reg	ured as w	is completed

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 Work Executed	Qua	ntity	Test		No. requi		Tests		of Tests ducted by Contractor
1	compation of			Core C	uttig		557		5	Nes
2)	usa gradig			Cytad	ij				6	Nes -
32	way 5-2			Gred	uh-				6	No.
-	WBM - 47-3			grad	tap.				4	Net.
			-1/4-14							
+										
								Waga		
	Based on executed quantities whether mandatory to conducted.  Yes Partly No	all .					II r	naintai ults mo <u>visions</u>	ned an	d as per
	ding: Grade: S SRI		] If th	is item i	s grade	ed SRJ	/U, v	vrite cl	ear rea	asons and



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 %
50m	6.89	3.75					
		3.75		l.			
	2.0						

Observations - Super-elevation and Extra Widening at curves.

Elevation	Widening provided (Y/N)		Elevation	provided (Y/N)
3.56%.	• 7			
		-		
		provided (Y/N)	provided (Y/N)	provided (Y/N)

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

#### 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)
	650m	SC	γ
			(1)
		3	
1100			The second secon



## Observation - Workmanship for Embankment and Sub-grade Construction:

#	Location (RD)	(RD) MDD kN/m³ (As per	Field	De	Degree of Compaction			
		record)	Moisture Content	Field Density kN/m <sup>3</sup>	Dry Density kN/m <sup>3</sup>	Compaction adequate.		
1								
		-						
1000								

Two d	The second secon
Grade: S U I	this item is graded U, write clear reasons and suggestions for
	_ o v v

## Observation - Side slopes and profile:

#	Location (RD)	Whether Side Slopes	Whether profile is
١.	250m	Satisfactory (Y/N)	Satisfactory (Y/N)
$\dashv$			
		The state of the s	



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

(RD)	whether appears to be stable. (Y/N)	protection works executed. (Y/N)	Formation is properly dressed and traffic worthy. (Y/N)
	4	u u	
	NA		

#### 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
		JA			
	- 6				

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

Grade: If this item is graded U, write clear reasons and suggestions for improvement: 7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

#	Location (RD)	of each layer of WBM	15	Aggregate	material is non-plastic	Volume of filler material	Whether adequate compaction
	110 m	(Inm)	Y	у	to desired extent. (Y/N)	percent of coarse aggregate	is done. (Y/N)
							N. N.

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

Grade: S U improvement:

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



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:



#	Location (RD)	Whether Coarse 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 is is in permissible
					limits. (Y/N)
					- 1 V 61
L					



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

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

#	Location	Th	ickness	Whether surface evenness is within acceptable limits. (Y/N	
	(RD)	Thickness in mm	Whether thickness is adequate. (Y/N)		
	110 m	20 mm	Υ,	γ	
4					

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

### 9. Observations - Quality of Shoulders:

#	observation	Thickness of layer in mm	Whether quality of the material is acceptable. (Y/N)	workmanship is acceptable (Y/N)	being constructed simultaneously with sub-base and
		]n	program		base course (Y/N)



### Cross Drainage Works: Observations - Quality of CDs. 10.

	RD at which CD is located	Type of CD	Whether quality of the material is acceptable.	
-1	35 m	HP		acceptable. (Y/N)
1	300 m	41	χ·	-
1	600 m	14	7	3
_		-		Y
rde			1044	

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

## Side Drains and Catch water Drains: Observations:

# Reference of RDs where side drain constructed.	which observation	Whether general quality of the side drains/ catch- water drains is acceptable. (Y/N)	Whether side drain are integrated to cross drains. (Y/N)
N	of frond	wt 12	
Grade: S SRI U	28		

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 Drains:

#	Reference of RDs, CC/SR	RD at	Thic	ckness	General	General
	Pavements provided.	observation made.	Acceptable (Y/N)	quality o material is acceptable.	f quality of	
	the start of CC		20 mm	~	12/14)	(1/N)
1	Revenuel				γ .	N
			1			
				The second second		1

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

				0	
			- 101		
1					
	4				
1					
Anna .					
1					
1					
1					1
					1
1					1
					1
4					1
1					
					- 1
1					1
1					1
1					-
			The second second		

Grade:	ent:	rite clear reasons and suggestions for
	Transfer Transferse Cree	mut observed also K found at starting
	forst of the father	••



### 13. Road Furniture and Markings

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

Citizen Information Board Fixed:

Yes No

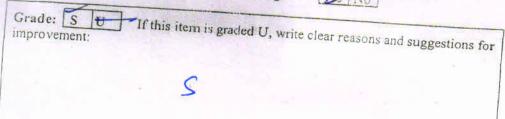
Grade: S U	☐ Ththis item	r is graded Ú, write clear :	reasons and suggest	ions fo
8 2	S			
	A Committee of the Comm	12		

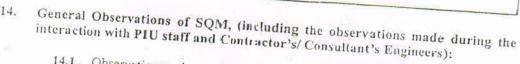
## Observations - Quality Road Furniture and Markings:

- 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







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 seen withhold or recovered:

14.3. Whether the work has been completed within the sanctioned cost, if not, what is the action taken by the FIU (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

mg/14/18



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

	1	Sub Item for Obser	CANAL STREET	Stage of Wo		Award Grad		Awarde Grades
	in the second	Item	1 - Sett	ing Out and Worki	ng Di	rawing		5
	a	Bench Mark and Centre	Line	All Stages	-	S/SRI/L	ı T	
	b	Availability of Working Drawing		All Stages		S/SR1/U	-	9 -
+				Item (			U	2
-		Total Control of the	n 2 - Sii	e Clearance and G	rubbi	ng		
-	a   .	Site Clearance and Grubb	(Else)	Stage-1	(G)	SSREU		
F	- 1	Re-use of Salvageable Ma	deri. i	Stage-I		S/SRED		
H				Hem G	rade	S/SRI/U		3
	1	Te Te	em 3 - (	Quality Arrangeme		L CONTRACTOR		3
23		dumy Arrangements	10	All Stages		Contra	-	
b	120	umber of Mandatory Test or prescribed frequency	S as A	All Stages		S/SRI/U S/SRI/U	-	
c	M	aintenance of QC Registe	rs A	Il Stages	-	200		
1100		The state of the s				S/SRI/U	-	
				Item Gra		S/SRI/U	1 5	3
1	Rox	nd way widds	Item	Item Gra 4 – Geometrics			] 3	3
1	Rox	nd way width	Item 21	Item Gra	ide		1 5	3
		nd way width	Item 2   ins	Item Gra 4 - Geometrics  per Km in every pection  er Km in every	s	S/SRI/U		3
		riageway width	Item 2   ins 2 p ins	Item Gra 4 - Geometrics  Der Km in every pection  er Km in every pection	s S	S/SRI/U S/U	3	3
	Carr	riageway width	Item 2   ins 2 p ins	Item Gra 4 - Geometrics  per Km in every pection  er Km in every	s S	S/SRI/U		3
	Carr	riageway width	Item 2 pins 2 pins 2 pe	Item Gra 4 - Geometrics  Der Km in every pection  er Km in every pection	s S	S/SRI/U S/U /U	3	3
	Carr	riageway wiefth  ober  or-elevation & Extra oning at Curves	Item 2 pins 2 poins 2 poins 1 cu	Item Grade  4 - Geometrics  Der Km in every pection  er Km in every pection  er km  rve in each km	S S/S	S/SRI/U S/U /U U		3
	Carr Carr Supe Wide	riageway width  ober  or-elevation & Extra  oning at Curves  Item 5A - Earth Work	Item 2 pins 2 poins 2 poins 1 cu	Item Grade  4 - Geometrics  Der Km in every pection  er Km in every pection  er km  rve in each km	S S/S	S/SRI/U S/U /U U	5	3
	Carr Carr Supe Wide	riageway width	Item  2 pins 2 poins 1 cu	Item Grade  4 - Geometrics  Der Km in every pection  er Km in every pection  er km  rve in each km	S S/S	S/SRI/U S/U /U U J t/ Cutting		3
C	Cam Cam Super Super Wide	riageway width  ober  or-elevation & Extra  oning at Curves  Item 5A - Earth Work	Item 2 prins 2 prins 2 prins 1 cu In Stalin	Item Gra  4 - Geometrics  Der Km in every pection  er Km in every pection  er km  rve in each km  Item Grade  ib-grade in Embani  age-1, 1 per km/	S/S/S/A	S/SRI/U S/U /U U J t/ Cutting		



		Item Grade	S/U	3
1	Thickness of every layer of WBM.	2 per Km	<b>S</b> /U	
100	Surface Evenness using straight edge	In completed WBM 2 tests per km	S/U	
- 13	Volumetric Analysis for assessment of compaction of WBM	In Stage- II or III, 1 per	S/U	
	Test for Liquid Limit and Plasticity Index in case fine aggregates are crushable type	In Stage- II or III, 1 per km	S/U	
	Grain Size of Coarse Aggregate		S/U	
	Item 7 - Base (	Course - Water Bound Ma	icadam	A Maria Caraca
		Item Grade	S/U	-
d	Total Thickness of Layer	2 per Km	S/U	
c	Compaction	In Stage- II or III, I per	S/U	
b	Plasticity	l-m	S/U	
2	Grain Size	In Stage- II or III, 1 per	S/U	
	Quality of Material			1
		Item 6 - Sub-Base	-1	
		Item Grad	ie S/U	9
d	Longitudinal Gradient	Stage II/III - 1 critical and fairly representative stretch of 200m in cacletin	e S/U	
c	Upon completion of formation cutting, dressing, traffic worthiness	At Stage III, at 2 critic locations with maximu height of cutting in each	ım lanı	
1	Auequacy of Slope Protection	en All Stages - In genera	S/U	
	Stability and Workmanship of Cut Stopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	S/U	





	Item 8 - Bituminous Layer	- Premix Carpet (PMC)/	Surface Dre	ssing (SD)
а	Level of cleanliness of WBM surface prior to application of bituminous layer	l per Km	S/U	
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	l observation on the day of inspection	S/U	
c	Gradation Test for Coarse 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/Ü	
e	Bitumen Extraction Test if PMC is complete	I 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	u-
		Item Grade	S/U	5
		liem 9 – Shoulders		
1	Quality of material for shoulders	In Stage- II or III, 1 test per Kin	S/SR1/U	
)	Degree of compaction	In Stage- II or III, I test ner Km	S/SRI/U	
	Thickness of layer	In Stage- II or III, 2 tests per km	S/SRI/U	
ten	a Grade		S/SRI/U	5
1	tem 10 - Cross Drainage Works	- Causeways of all spans span.	and Culvert	s upto 6 m.
	Quality of Material - Concrete, Stone/ brick masonry, Hume pipes including size etc.	All Stages	S/SRI/U	K.T.
	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	2





	Frem 11 - Sig	de Drain and Catch Water	· Drain		
11	General quality of Side Drains Catch Water Drains and their integration with CDs.		S/SRI/U		O Photo
		Item Grad	e S/SRI/U		35
	Item 12 - CC/ Semi Rig	ld Pavements and Associa	ted Pukka Dra	ins	
11	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, I per 100 m. Length of Pavement	S/1)		****
c	Quality of Workmanship Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.	In Stage- II or III	S/U		
i	Thickness of Layer	in Stage- II or III, I per 190 m. Length of Pavement	S/U		
		Item Grade	S/U	U	
-4	Item 13 - Re	oad Furniture and Markin	igs		
	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-I	S/U		
	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion	Stage-HI	S/U		
1	Whether the information in boards is given in local language.	Stage-I and III	S/U		
		Item Grade	S/IJ	С	

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17. Overall Grading of Work: The overall grading calculated on the basis of item and sub-item wise grading is given below:

The second control of	Sub Item for Observation	Awarded Grade
Item No.		S
tem No 1	Setting Out and Working Drawing	5
Item No 2	Site Clearance and Grubbing	5
Item No 3	Quality Arrangements	2
Item No 4	Geometries Earth Work and Sub-grade in Embankment/	5
Item No 5 A	Cutting  Earth Work in Cutting in Hilly/ Rolling Terrain	
Item No 5 B	Earth Work in Cutting in Time	
Item No 6	Base Course - Water Bound Macadain  Base Course - Water Bound Macadain	5
Item No 7	Bituminous Layer - Premix Carpet (PMC)/	S
Item No 8	Surface Dressing (SD)	5
Item No 9	Shoulders Company of all	5
Item No 10	Cross Drainage Works - Causeways of all spans and Culverts upto 6 m. span.	1
Item No 11	Side Drain and Catch Water Drain	
The state of the s	CC/ Semi Rigid Pavements and Associated	
Item No 12	Pukka Drains	5
Item No 13	Road Furniture and Markings	U
	Overall Grading	

Signature:

Name:

Date: ..... 78/14/8