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

GENERAL: Work is Ongoing Completed
1.1. Date of Inspection: DD MM YY 2 7/1427
Name of State Duclity Manit
1.3. District: Caran Placta Placta
A Name of D 1 2
TO CHATTER (VK-174)
1.5. Package No. 1: BR-03 R-443
6. Length:Km Flexible Pavement,Km. CC/other Pavementm. =
Total.1:432Km
.7. Sanctioned Cost (As cleared by GOI): Rs. 90.07 Lakh
.8. Technical Sanction Cost: Rs. 90.07 Lakh Rs. 90.07 Lakh
.9. The Work is a Case of: New connectivity Up gradation
.10. Terrain Plain Rolling Hilly
.11. Date of Start of the Work:
.12. Stipulated Date of Completion:
.13. Actual Date of Completion (if work completed):
PHYSICAL PROGRESS: (In case of On going works only) Construction
rogramme and Physical Progress:
- ob. animo una i mysicari rogress.

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work		Due			TVIOITIIS
		Actual	1,11		1 7
CD Works		Due			
•		Actual			
Sub base i/c		Due			
Shoulders		Actual	Y		+
Base Course (Non		Due	11 1		·
Bitu.)		Actual			-
Base /Wearing		Due	,		
Course(Bitu.)		Actual			
CC Pavement		Due	11.11.11.11	province of	-
-		Actual			
Signage etc		Due		Ga.	-
		Actual		, and	

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 SQM or SENIOR OFFICERS AND ACTION TAKEN:

Inspection by SQMs and senior (i.e. SE or CE) departmental officers and action taken statement:

Date of	_	Observations	Action Taken by PIU with
Visit	Ву		Date

	•		
	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		

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

Report of National Quality Monitor (NQM) PART II— Observations of NQM for Ongoing/Completed Work

(To be filled-up by NQM, use additional sheets, if required.)

1. QUALITY ARRANGEMENTS-OBSERVATIONS (In Case of ongoing works only): Observations:

#	Whether	Field	Whether	necessary	Whether	Equipments
	laboratory	Established	Equipments	available	have been u	ised (Y/N)
	(Y/N)		(Y/N)			
		-		_	_	
Gra	ading: Grad	e: S RI L	If this item	is graded RI/U	J, write clear	r reasons and
sug	gestions for	improvement:	_	J		
		•				•
			-			

2. ATTENTION TO QUALITY: (In Case of ongoing works only):

Observations - Item 2a: Maintenance of QC Registers:

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

Observations – Item 2b: Verification of Test Results (P – conforms, F – does not conform):

#	Name of Test	Results of the test conducted by NQM at a defined location.(P/F)	Test result as per QC Register at the same location. (Mention the Page No. of QC Register also)(P/F)	Whether the test results recorded in QC register found correct? (Y/N)
	1	-		, <u> </u>

Grade S RI U for improvement:	If this item is graded RI/U, write clear reasons and suggestions
. GEOMETRICS	and the stage

3. GEOMETRICS: The NQM should take at-least two measurements in 1 Km length and if it is found that the roadway and carriageway is inadequate NQM may take more observations:

Observations - Item 3 a, b and c: Road way width, Carriage way and Camber.

Ref. RD	Roadway Width (m)	Carriageway Width (m)	Ref. RD	Roadway Width (m)	Carriageway Width (m)
	J		_	_	
					1

Observations – Item 3 d: Superelevation and Extra Widening at curves.

Ref. RD	Super Elevation	Extra Widening provided (Y/N)	Ref. RD	Super Elevation	Extra Widening provided (Y/N)
	-	1		_	
				1	

Observations - Item 3 e: 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
		-			-
					-

	e S U If	this item is graded U, write clear re	asons and suggestions for
		ARDING THE QUALITY OF ITI	EMS OF WORK:
4	Earthwork:		
Observ	vations – Item 4 a	Quality of Material for Embankm	ent/ Sub-grade:
#	Location (RD)	On Visual Classification identify	Quality of material is
	_	the Group Symbol and write	acceptable. (Y/N)
C 1	. 6 11	TO I I I I I I I I I I I I I I I I I I I	
Grad sugge	e: S U stions for improve	If this item is graded U, write cleament:	ar reasons and
	P	,	13 47 5 to 100
		_	
		9.	
		4	
	ď.		

Observation – Item No. 4 b: Workmanship for Embankment and Sub-grade Construction:

#	Location	MDD kN/m ³	Field	Deg	ree of Compac	tion
π	(RD)	(As per record)	Moisture Content	Field Density kN/m ³		
			1	_		

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

Observation - Item No. 4 c, Side slopes and profile:

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)
_	_	_	_
			, may the stages

Observations- Item No. 4 d and e, Earth work in Hilly/Rolling terrain or high Embankments:

	TIXIII CITES.			
#	Location	Cut Slopes & Profile,		Formation is properly
1	(RD)	whether appears to be	protection works	dressed and traffic
		stable. (Y/N)	executed. (Y/N)	worthy. (Y/N)
_	_	_	_	

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

5. Sub-Base:

Observations- Item No. 5 a, b, c and d, 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)
	_	-		_		
ť						

Grade: for improv	s	U it:	If this item is graded U, write	clear reasons and suggestions	
				•	
			34		

6. Base Course:

Observations- Item No. 6 a, b, c and d, Quality of Material and Workmanship of WBM:

#	Location (RD)	Thickness of each layer of WBM (mm)	Thickness is adequate. (Y/N)	confirms to	Filler material is non-plastic to desired extent.	Volume of filler material percent of course	Whether adequate compaction is done. (Y/N)
					(Y/N)	aggregate	
			_		_	_	
							3.0

Grade:		U	If this item is graded U, write clear reasons and suggestions for
improver	ment:		
			•

7. Bituminous Course: Premix Carpet/Surface Dressing/ BM/ MPM etc including Seal Coat: Observations- Item No. 7 a, b, and c, Quality of Material and Workmanship of BT Layer (in case of ongoing works):

#	Location	Whether	Whether the	Write Mixing	Write Laying
"	(RD)	Course	binder is of	Temperature	Temperature
	(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)

		U If this item	is graded	U, write	clear reasons	and suggestions for	
im	provement:						
							,
Obs	ervations- l	Item No. 7 d ar	ıd e, Worl	cmanship	of BT layer (in case of completed	
wor	ks):						
#	Location		ickness			urface evenness is	
	(RD)	Thickness in		thickness	within accep	ptable limits. (Y/N)	
		mm	is adequa	te. (Y/N)			•••
	.—						
Cua	de C T	I If this it as		III verito e	lear reasons	and suggestions for	
Gra	de: SU rovement:	i ii this itei	m is graded	i U, write t	clear reasons	and suggestions for	
imp	ovement.						
						E 3*	•
			,				
8.	Observa	tions- Item No	.8 a and b	, Quality	of Shoulders	(in case of completed	1
wor							_
#		of Whether	general	Whether	general	Whether Camber in	- 1
	observation	- 1	of the	quality workman	of ship is	Shoulders is adequat (Y/N)	e
		material acceptable.		acceptabl		(1/19)	
		ассериале	. (1/11)	ucceptuoi	(1/11)		\dashv
							_

9.	Cross Drainage	Works:	Observations	Item No.	9 a an	d b, Q	uality (of CDs	١.

#	RD at which CD is located	Type of CD	Whether general quality of the material is acceptable. (Y/N)	Whether general quality of workmanship is acceptable. (Y/N)

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

10. 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-	
	drain	observation		cross drains. (Y/N)
	constructed.	made.	acceptable. (Y/N)	
	_	_	_	

Grade: S RI U suggestions for improvement:	_	RI/U, write clear reasons and
suggestions for improvement.		
	-	

11. CC/ Semi-Rigid (SR) Pavements and Associated Pucca Side Drains: Item No. 11 a, b, c and d:

#	Reference of	20.00	Thic	kness	General	General
	RDs, CC/SR Pavements	which observati	Thickness	Acceptable	quality of material is	
	provided.	on made.	in mm	(Y/N)	acceptable.	acceptable(Y/
	•				(Y/N)	N)
		1			-	
-						

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

12. Road Furniture and Markings

Observations - Item No. 12 a: Quality Road Furniture and Markings (in case of ongoing/completed works):

Main Informatory Board Fixed:

Yes No

Citizen Information Board Fixed:

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

Observations - Item No. 12 b: Quality Road Furniture and Markings (in case of completed works):

- i. Logo Boards Fixed:
- ii. 200m. Stones fixed:
- iii. 1 Km. Stone fixed:
- iv. Guard Stones fixed on Curves:
- v. Mandatory and Cautionary Signage

Yes	No	
Yes	No	_
Yes	No	

No	
No	
	No

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

- 13. General Observations of NQM, (including the observations made during the interaction with PIU staff and Contractor/ Consultant Engineers):
 - **a.** 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):

b. 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: c. 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):

d. 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).

e. 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).

14. Other observations, if any:

15. 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	In case of work	Awardable Grades	Awarded Grade
1	2	3	4	5
	Item 1 - Qualit	y Arrangements		
	Quality Arrangements	On-going	S/RI/U	
	Item Grading		S/RI/U	
	Item 2 - Atte	ntion to Quality		
a	Maintenance of QC Registers	On-going	S/RI/U	· —
b	Verification of test results	On-going/ Complete	S/U	
	Item Grading		S/RI/U	_
	Item 3 –	Geometrics		
a	Road way width		S/U	_
b	Carriageway width	Ongoing or	S/U	
c	Camber	complete	S/U	_
d	Superelevation & Extra Widening at Curves	,	S/U	_
e	Longitudinal Gradient in case of road in hilly/ rolling terrain.	Ongoing/ complete	S/U	
	Item Grading	•	S/U	_
	Item 4 - Earth Work and Sub	-grade in Embar	kment/ Cutti	ng
a	Quality of Material for Embankment/ Sub-grade	Ongoing or	S/U	-
b	Compaction	complete	S/U	_
c	Side Slopes and Profile	Complete	S/U	_
d	Stability and Workmanship of Cut Slopes (in case of hilly/rolling terrain)	Ongoing or	S/U	_
e	Adequacy of Slope Protection (in case of high embankments/hilly/ rolling terrain)	complete	S/U	r a v Pita. · · · · · · pa a
	Item Grading		S/U	_
Item 5 - Sub-Base				
a	Grain Size	Ongoing or	S/U	
b	Plasticity	complete	S/U	_
c	Compaction	Ongoing or complete	S/U	_
d	Total Thickness of Layer	Ongoing or complete	S/U	_
	Item Grading		S/U	

	Item 6 - Base Course - Water Bound Macadam			
a	Grain Size of Course Aggregate		S/U	
b	Plasticity of Crushable Aggregate used as fillers	Ongoing or	S/U	_
c	Adequacy of Compaction through volumetric analysis.	complete	S/U	_
d	Thickness of every layer of WBM.		S/U	_
	Item Grading		S/U	
	Item 7 - Bituminous Layer – Premix	Carpet (PMC)/	Surface Dres	sing (SD)
a	Gradation of Aggregate	Ongoing	S/U	
b	Mixing Temperature of Mix.	Ongoing	S/U	_
c	Laying Temperature of Mix.	Ongoing	S/U	
d	Thickness of layer	Ongoing or complete	S/U	_
e	Surface Evenness	Ongoing or complete	S/U	_
	Item Grading		S/U	
Item 8 – Shoulders				
a	Quality of material for shoulders	Complete	S/RI/U	· · · · · · · · · · · · · · · · · · ·
b	Degree of compaction	Complete	S/RI/U	
c	Camber.	Complete	S/RI/U	_
	Item Grading		S/RI/U	_
	Item 9 - Cross	Drainage Works	3	
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	Ongoing or	S/RI/U	_
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	complete	S/RI/U	_
	Item Grading		S/RI/U	_
	Item 10 - Side Drain	and Catch Wate	r Drain	
	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	Ongoing or complete	S/RI/U	e v Ayyania.
Г	Item Grading		S/RI/U	
	Item 11 - CC/ Semi Rigid Paver	nents and Associ	ated Pukka I)rains
a	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.		S/U	
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement		S/U	

c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.		S/U	
d	Thickness of Layer		S/U	-
	Item Grading		S/U	
	Item 12 - Road Fu	rniture and Marl	kings	
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Ongoing	S/U	_
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion.	Complete	S/U	
c	Whether the information in boards is given in local language.	Complete/ Ongoing	S/U	_
	Item Grading		S/U	_

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

#	Item	Awarded Grade
1	Quality Control Arrangements	
2	Attention to Quality	_
3	Geometrics	_
4	Earthwork and Sub-grade in Embankment/Cutting	
5	Granular Sub-base	
6	Base Course Non-Bituminous and shoulders	Company of the Compan
7	Bituminous Surfacing	
8	Shoulders	
9	CD Works	
10	Side Drains and Catch Water Drains	· or the preparation of the contract of the co
11	CC/Semi-Rigid Pavement and Associated Pukka Drains	
12	Road Furniture and Markings	_
	Overall Grading	

Signature:

Name: AKHILESH KUMAR

Date: 28/14217