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

GEN	TERAL: Work is Ongoing Completed
1.1.	Date of Inspection DD MM
1.2.	Name of State Quality Monitor:
1.3.	District: Sala 1 Block: Bania Dud
1.4.	Name of Road: From Suhai gajas - Manik for Albert to Ahis tile Chatra kale Khi
1.5.	Tranche (
1.6.	Length: 140.Km Flexible Pavement, 200.Km. CC/other Pavement : 500.m.
Total	1:40 Km
1.7.	Sanctioned Cost (As cleared by GOI): Rs. 103.38078 Lakh
1.8.	Technical Sanction Cost: Rs. Lakh
1.9.	The Work is a Case of: New connectivity Up gradation
1.10.	The Work is a Case of: New connectivity Up gradation Terrain Plain Rolling Hilly
1.11.	Date of Start of the Work: 05 05 15
1.12.	Stipulated Date of Completion: 11 04 16
1.13.	Actual Date of Completion (if work completed):
2.	PHYSICAL PROGRESS: (In case of On going works only) Construction
Progra	imme and Physical Progress:

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	90%	Due			
	00/	Actual			
CD Works	1001	Due			
	1007,	Actual			
Sub base i/c	100%	Due			
Shoulders	100 /.	Actual			
Base Course (Non	1004	Due			
Bitu.)	, , , ,	Actual			
Base /Wearing	and V	Due			
Course(Bitu.)	50%	Actual			
CC Pavement	100 %	Due			200
to a transport	100 /	Actual			2000
Signage etc	-05	Due			
	50%	Actual			The state of the s

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

井	Bench	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
	7		Y	.7

Grading: Grade: S SRI U II 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.
X	Y	is:

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

U.

3. 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.	Whether adequate Equipments as per requirement of work are available and are being used. (Y/N)
· ·	Y	7	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 Work Executed	Quantity	Name of Test	No. of Tests required	Conducted by
_	Grant WBN 43	1/2 200 m			P1U/Contractor
1	Grady Test 133		gredefin		6 test
2	475B		gradet.		6 tur
_					

quan	latory		Whether QC Register Par I maintained as per provisions.	II maintained and test results monitored as per
	Yes Partly	No	Yes Partly No	Provisions. Yes Partly No

Grading: Grade: 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)	Carnber in %	Ref. RD	Roadway Width (m)	Carriage way Width (m)	Camber in %
175	7.00	3.75					
250	7.05	3.78	10.000				

Observations - Super-elevation and Extra Widening at curves

	lening ed (Y/N)	Elevation	provided (Y/N)
520 3.6	/		

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

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)
	250	SL	У
		(8)	



S *		
4: 'X		
·		
·	*	

Observation - Workmanship for Embankment and Sub-grade Construction:

	Location	MDD kN/m³ (As per record)	Field	Degree of Compaction			
	(RD)		Moisture Content	Field Density kN/m ³	Dry Density kN/m ³	Compaction adequate. (Y/N)	
+						1910	
+							
1							

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestion to thoulders not	ıs for
Campa	eted., lagri loose.	

Observation - Side slopes and profile:

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)
1	800 m	Y	Y
2	1200 m	У	<i>y</i>
		,	
-1			
		/	A CANADA CALL A



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

17	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)
-		el	ew"	
		4		
			NAME OF THE OWNER O	100000000000000000000000000000000000000

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
	01	-			
	- 400			10 10 10 10 10 10 10	

nprovement:		U, write clear reasons and si	20 2017177 191
	2		



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)
t	700m	7	Y	Y	7/00	y
2	1200 M	У	Y	Y	> 100	*
ێ	1250	Y	7	7	7100	Υ
				CAN SHALLOS (SAS TRADESSOR)		

Grade: 8 U If this item is graded U, write clear reasons and suggestions

S

7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

# Loca (RI	0)	WBM (mm)	1.5	Aggregate	Filler material is non-plastic to desired extent. (Y/N)	Volume of filler material percent of coarse	Whether adequate compaction is done.
120	"	85	Y	y y	y	23./2 23.42	7

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

Grade: S U

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

In case of PMC/RM/MPM/ Seal C

#	(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)
-		N	4		

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

San Advisor of a

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

#.	Location	Th	ickness	BIM/MPM (in case of completed
	(RD)	Thickness in mm	Whether thickness is adequate. (Y/N)	Whether surface evenness is within acceptable limits. (Y/N
			half un	
] n		

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

9. Observations - Quality of Shoulders:

#	RD or observation	Thickness of layer in mm	quality of the material is	workmanship is acceptable.(Y/N)	hains
	_ / V	ods in	hogus		



10. Cross Dralnage Works: Observations - Quality of CDs.

	RD at which CD is located	Type of CD	Whether quality of the material is acceptable (Y/N)	Whether quality of workmanship
1	700m	HP		acceptable. (Y/N)
2	1100m	HP	Y.	
-{			7	<u> </u>
_]		Falls of		

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

11. Side Drains and Catch water Drains: Observations:

Ti -	Reference of RDs where side drain constructed.	which observation	maton	Whether side drains are integrated to cross drains. (Y/N)
	0	Nod	ordalar .	<u> </u>

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 Pueca Side Drains:

		Thi	ckness	General		General
Pavements provided.	obser- vation made.	Thickness in min	Acceptable (Y/N)	quality material acceptable. (Y/N)	of is	quality of workmanship acceptable (Y/N)
				·		
			Samos		•	
×		199	(1)			
	W	no				10 10 10 10 10 10 10 10 10 10 10 10 10 1
	/	NUMBER OF STREET		——————————————————————————————————————	-	
	RDs, CC/SR Pavements	RDs, CC/SR which obser-provided, vation	RDs, CC/SR which obser-provided, vation Thickness in min	RDs, CC/SR which obser-provided. which obser-vation Thickness Acceptable (Y/N)	RDs, CC/SR which obser-provided. Which obser-vation which obser-vation which obser-vation (Y/N) General quality material acceptable.	RDs, CC/SR which obser-provided. which obser-vation which of material is

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

			The second second	
	l			

Grade: S U improvement:	If this item is graded U, write clear reasons and suggestion	is for
	ESTRUMENT NATIONAL STATE OF THE	- 1



13. Road Furniture and Markings

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

Main Informatory Board Fixed: [Yest No.]

Citizen Information Board Fixed:



Grade: State of this item is graded U, write clear reasons and suggestions for improvement:

5

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	Nö
Yes	No
Yes	NoT

000 gring work

77

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 FIU (in case of complete works):

14.4. Observations about the action taken by the PIU on the observations of inspecting officers including SCMs 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

	1	Sub Item for Obser	vation	Stage of Wo	ork	Aware Grae		Awardee Grades
	0.00	Item	1 - Set	ing Out and Work	4	-	5	
	a	Bench Mark and Centre	Line	All Stages	ng Dr			
	b	Availability of Working				S/SRI/L	J	and the second
-	Drawing		-	All Stages	area.	S/SRI/U	in a	60
-	<u> </u>	Į.	- 1 22	Item (~ 10111	U	3
	1 /		u 2 - Si	e Clearance and G	rubbi	ng		
1) 1	Site Clearance and Grubs Re-use of Salvageable Al.	-	Stage-I		SISRIT		
		ar parrageanie a)	alena [Stage-1		S/SRI:L!		-
			_	Item G		S/SRI/L	1	S
-14	lo	unline A	tens 5 - 1	Quality Arrangeme	nts			-
		unlity Arrangements	1	All Stages		S/SRI/U	7	
b	170	umber of Mandatory Test r prescribed frequency	P	III Stages		S/SRI/U		
c	M:	aintenance of QC Registe	ers A	II Stages		S/SRI/U	-	
-			¥	Item Gra		S/SRI/U	-	
i.			Item	4 - Geometries	are	5/5/(1/U		5
a	Roa	d way width		per Km in every			- N	
			ins	pection	S	/U		
b	Curr	iageway width	2 p	er Km in every	S/	U		
2	Cam	ber		er km	+			
d S	Supe	r-elevation & Extra			S/I	U I		
	Wide	ning at Curves	1 cu	rve in each km	S/L	,		
	-	Itam 51 .		Item Grade	S/U		S	
	-	Item 5A - Earth Worl	and Su	(b-grade in Emban)	cment	/ Cutting		
Q	ualit mbar	y of Material for - ikment/ Sub-grade	In Sta	nge-1, 1 per km/ nge- 11 or 111, 1 per	S/U			
-		ction	In Sta In Sta km	ge-I, 2 per km/ ge- II or III, 2 per	S/U	-	71 11 11 11 11 11 11 11 11 11 11 11 11 1	
1011	e SI	opes and Profile	11/20	m in Stage III			49 140	





		Item Grade	S/U	3
W	nickness of every layer of BM.	2 per Km	S/U	
sti	urface Evenness using raight edge	In completed WBM 2 tests.per km	S/U	7, ,,
a	olumetric Analysis for ssessment of compaction of VBM	In Stage- II or III, 1 per	S/U .	
a	Test for Liquid Limit and Plasticity Index in case fine ggregates 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 M	acadam	
		Item Grad	le S/U	e
	Total Thickness of Layer	2 per Km	S/U	
-	Compaction	In Stage- If or III, I per	S/U	
	Plasticity	l-m	S/U	
	Grain Size	In Stage- II or III, 1 pc	S/U	
	Quality of Material			
		Item b - Sub-Buse		
		Item Gr:	ide S/U	
(l	Longitudinal Gradient	Stage II/III - 1 critica and fairly representate stretch of 200m in car kin	ve	
c	Upon completion of formati cutting, dressing, traffic worthiness	on At Stage III, at 2 crit locations with maxin height of cutting in ea	um	
b	Adequacy of Slope Protecti	on All Stages - In gener	al S/U	
a	Stability and Workmanship Cut Stopes	nd Workmanship of Stage I and II, at 2 critical locations with maximum height of cutting in each km		



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	å,	£,	-	赛

	-	material and workmanship	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	1.6	lest on the day of				
	d	Grade of bitumen and temperature at the time of mixing and laying (if the wo in the item is ongoing)	I lust on the d. y o		S/U			
	e	Bitumen Extraction Test if PMC is commete	I test per Km		S/U			
1		Thickness of layer	2 per Km		S/U			
20		Surface Evenness in case of completed BT work	2 per Km					
			Item G	rade (S/U	-		
			11em 9 - Shoulders					
2	Si	uality of material for noulders	In Stage- II or III, 1 t	est S	/SRI/U			
b	D	egree of compaction	. In Stage- II or III, I to	Stage- Il or III, I test		/SRI/U		
*	TI	nickness of layer	In Stage- II or III, 2 to per km	SIS S	SRI/II			
		rade						
	ten	10 - Cross Drainage Work	3 - Causeways of all sp	ansano	Culverts	upto 6 m		
	Qua	ality of Material - Concrete, ne/ brick masonry, Hume es including size etc.	All Stages		SRI/U			
1	as p	lity of Workmanship such ositioning of pipes, wing s, cushion over H Pipes	All Stages	S/S	RI/U			



	-	-11	Ptem 1	I - Sid	e Drain and Catch	Water	Drain	
		General quality of Side D Catch Water Drains and the integration with CDs.			COLOR CO.		S/SRI/	u T
		Item Grade S/SI Item 12 - CC/ Semi Rigid Pavements and Associated Pul) .
		T	Onalin of M	Kigid	Pavements and As	sociate	ed Pukka	Drains
	a	1	Stone/ Concrete Block Pavement etc.	icie,	In Stage- II or III, 1 100 m. Length of Pavement	per		
1	b	P	strength of CC in Concrete avement/ Concrete Block avement		In Stage- II or III, I I 100 m. Length of avement	per	S/17	
	c	A	uality of Workmanship earing surface texture, dequacy of setting of nerete, Joints, Edges etc.		n Stage- II or III	3	8/U	
d		Thi	ickness of Layer	2.53	Stage-11 or 111, 1 po 30 m, Length of evenent		/U	
-					Item Gra	de S/	U	-
-	To		Item 13 -	Road	Furniture and Mar	kings		
	Q	ual urin	in Informatory Board, ity and whether fixed g construction.	Stag	ge-I	S/L	J	5
	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion				S/U			
	Wh	rds	er the information in	Stage	-1 and 111	S/U		State
				T/257	Item Grade		1	



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

Signature:

Name:

Date:

29/14/8