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

	1733	
	Work is Ongoing Completed	
	ERAL: Date of Inspection 29 112 2019	7
1.1.	Name of State Quality Monitor:	
1.2.	Block.	
1.3.	District: Grand Storm to Short to Inazwa.	
1.4.	Name of Road: From Nomaki move to Jacobs	
1.5.	Package No.: 8P-37R-434	
1.6.	Length:Km Flexible Pavement, I.2.Km. CC/other Pavement .300.m.	
Total.	1.50Km	
1.7.	Estimated Cost (As cleared by GOI): Rs. 80.98 Lakii	
1.8.	Technical Sanction Cost: Rs. 50.58 Lakh	
1.9.	The Work is a Case of: New Connectivity Up gradation	
1.10.	Terrair Plain Rolling Hilly	
1.11.	Date of Start of the Work: 17 06 15	
1.12.	Stipulated Date of Completion: 16 06 16	
1.13.	Actual Date of Completion (if work completed):	H
2. Progra	PHYSICAL PROGRESS: (In case of On going works only) Construction comme and Physical Progress:	ン

ltem	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work		Due			
	75 %	Actual			
CD Works	80%	Due			1.
	100%	Actual			
Sub base i/c	95./	Due			
Shoulders	75%	Actual			
Base Course (Non	100%	Due			
Bitu.)	100%	Actual			
Base /Wearing	Carried Water State	Due			
Course(Bitu.)		Actual			
CC Pavement	80%	Due			
	00%	Actual		1	
Signage etc	25%	Due			
	12/	Actual	T		

3. QUALITY CONTROL:

- 3.1. Location of Field Laboratory: Alen-10 m.
- 3.2. Quality Control Register Part-1 is maintained by: Garboulis
- 3.3. Quality Control Register Part-II is maintained by: PIU.

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	By	Observations	Action Taker D	n by PIU with ate
9.4.16	Viscendsa Thakur SDM.	Salisfactory	100 Mar.	
	SQM.	4	Japan Land	
	7			
*			. 1	
	A PROPERTY NAME OF THE PARTY OF THE	age to be a	Transmission and the second	
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4		and the state of t		
9	A marifyer and	e de e al estado	Proper of	
	A STATE OF		1.00	
	we (Signer	Section 1		

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

4

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: 1 | 11 | 111

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

#	marks @ 4	Locations of	referenced with Marker	Drawing for the work
	У.	- Krispart	У	γ

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 1 of Work

#	Grubbing being done as per DPR and Material obtained is being disposed off	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.
	Y	— N	

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



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

#	Whether Field laboratory Established (Y/N)	available	Whether adequate Equipments as per requirement of work are available and are being used. (Y/N)
_	- y	Y	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-I)

#	Item of Work Executed	Quantity	Name of Test	No. of Tests required	No. of Tests Conducted by PIU/Contractor
u.e				11	
			Colvertext	is beendre	
_	- ox	dre Male			
	Asper Har				
				are and a second	
_	2021				
	1	4 5 - 4	4-	7- 201-4	
e de la companya de l		790			

#	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
		- E	

Grading: Grade suggestions for	S SRI	U If this item is	graded SRI/U, writ	te clear reasons and
Charles.		"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 %	Rej.	Roadway Width (m)	Carriage way Width (m)	Camber in %
720	6.0	3.75	3.7%				
410	6.0	3.75	4.2%		1,014		

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)
850	7-12-	У		-	
700	7.2%	У.		***************************************	
1	i i i i i i i i i i i i i i i i i i i				

Grade: S U improvement:	If this item is gr	raded U, write clear reason	ns and suggestions for
	N Programme Company	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 acceptable. (Y/N)	
10	700	Souly Sul	У	
	-		•	
	The state of the s		190	
	ALC: THE STATE OF			

Observation - Side slopes and profile:

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)
er Gran	Alternative St.	and the second second	
10-11	and the second s	Nork in magners	10 1 10 10 10 10 10 10 10 10 10 10 10 10
. Will		1.0	tus spi
ej :	Section April 19 Section 1	the second second	. 4
		, di.	en agri
- 0			And a second

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

ŧ	Location (RD)	Cut Slopes & Profile, whether appears to be stable. (Y/N)	formation is properly dressed and traffic worthy. (Y/N)

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
· · · · · · · · · · · · · · · · · · ·	32				
5	14'A 1"		25.0		

Grade: improvem	J, write clear reasons and sugg	estions for
	 · ·	

6. Sub-Base:

Observations - Quality of Material and Workmanship:

#	Location (RD)	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)
-						
		1-119	47	- Type		
		- P		-9		
	15 2	t Marchine				



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

7. Base Course:

Observations- Quality of Material and Workmanship of WBM:

#	Location (RD)	Thickness of each layer of WBM (mm)	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 coarse aggregate	Whether adequate compaction is done. (Y/N)
1	350	75	У.	у	7	22.347	У
1		- Verplan			**************************************		
+							

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 improvement:

S

8. Bituminous Course: Premiz Carpet/Surface Dressing/ BM/ MPM etc including Seal Coat: Observations - Quality of Material and Workmanship of BI 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.):

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

In case of PMC/BM/MPM/ Seal Coat

#	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 it is in permissible limits. (Y/N)
	to const	100	a property as		
	But + Selection	a margara			
	in the	71.	27.0		
	Harris Daniel	a constitution			1
	100			T	
		2		 	

ir	rade: S U	T this its				and suggestions for
			-			
	44					
Ol	servations -	Workmanshi	p of BT layer Pl			case of complete
#	Location	Т	hickness	W.	hether s	urface evenness is
π	(RD)	Thickness in			hin acce	ptable limits. (Y/N
_	7	49	200 100 100		20 20	de
_	-		=3	-		- E
			-	_		711
	ade: SU provement:	- Manor				and suggestions for
	Marine September 1					
	Observation	s - Quality of	Shoulders:	-		
	RD o	Thickness	Whether	Whether	quality	Whether Should
_	1100		quality of the		paction	
	observation	of layer in mm	material is	workmans		simultaneously
			material is acceptable.	acceptable		with sub-base a
		mm	material is			
		mm	material is acceptable. (Y/N)			with sub-base a

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

Ħ	RD at which CD is located	Type of CD	Whether quality of the material is acceptable. (Y/N)	Whether quality of workmanship is acceptable. (Y/N)
	100 29 1	- 1	2.2	
9/1/00			100	e I

S SRI U stions for improvement	aded SRI/U, write clea	r reasons and
es, i la miegano Album I Displace d	Control of the same	

11. Side Drains and Catch water Drains: Observations:

#	Reference of RDs where side drain constructed.		Whether general quality of the side drains/ catch- water drains is acceptable. (Y/N)	
		No b	mhm	
1	Supplied to the Maria	KIND OF STATE	MALENT MINISTER CONTRACTOR	

sugges	e: S SRI U stions for improver	ed SRI/U, w	rite clear	reasons and
	art to let the			

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

#	Reference of	1	Thic	kness	General	General
	RDs, CC/SR Pavements provided.	which obser- vation made.	Thickness in mm	Acceptable (Y/N)	quality of material is acceptable. (Y/N)	quality of workmanship acceptable (Y/N)
	800 40 1100.	1050	190	У	Y	À
	All - Doom .	990	190	у	У	Υ
		No. 1				
			**			

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
AND CAREERS	Days - 1984 to the major and	The second second
7.	S C	
A A S		
	Library and The Control	
		Sec.
a geografially		



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

Citizen Information Board Fixed:

Grade: S U improvement:	If this item is graded U, wi	rite clear reasons and s	suggestions for
	`s"		
	a provide a contraction of		

Observations - Quality Road Furniture and Markings:

13.1.1. Logo Boards Fixed:

Yes No

13.1.2. 200m. Stones fixed:

Yes No

13.1.3. 1 Km. Stone fixed:

Yes No

13.1.4. Guard Stones fixed on Curves:13.1.5. Mandatory and Cautionary Signage

Yes No

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

"S"

- 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:

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 – Sett	ing Out and Working Drav	wing	
2	Bench Mark and Centre Line	All Stages	S/SRI/U	
b	Availability of Working Drawing	All Stages	s/sri/U	
		Item Grade	S/SRI/U	
* 1	Item 2 - S	ite Clearance and Grubbin	ıg	
2	Site Clearance and Grubbing	Stage-I	S/SRI/U	
b	Re-use of Salvageable Material	Stage-I	S/SRI/U	
		Item Grade	S/SRI/U	
-	Item 3	- Quality Arrangements		
2	Quality Arrangements	All Stages	S/SRI/U	4 197
b	Number of Mandatory Tests as per prescribed frequency	All Stages	S/SRI/U	
c	Maintenance of QC Registers	All Stages	S/SRI/U	
	A STATE OF THE STA	Item Grade	S/SRI/U	
	It	em 4 – Geometrics		
2	Road way width	2 per Km in every inspection	S/U	
b	Carriageway width	2 per Km in every		
	omingo	inspection	S/U	
c	Camber	inspection 2 per km	S/U	
c d				
	Camber Super-elevation & Extra	2 per km	S/U S/U	
	Camber Super-elevation & Extra Widening at Curves	2 per km 1 curve in each km	S/U S/U	
	Camber Super-elevation & Extra Widening at Curves	2 per km 1 curve in each km Item Grade	S/U S/U	
d	Camber Super-elevation & Extra Widening at Curves Item 5A - Earth Work a Quality of Material for	2 per km 1 curve in each km Item Grade and Sub-grade in Embank In Stage-I, 1 per km/ In Stage- II or III, 1 per	S/U S/U S/U ment/ Cutting	

	Item 5B - Earth Wo	ork in Cutting in Hilly/ Rol	ling Terrain	1
n	Stability and Workmanship of Cut Slopes	Stage I and II, at 2 critical locations with maximum height of cutting in each km	SAU	
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	1 - A1
_	7791.7 has	Item Grade	S/U	
		Item 6 - Sub-Base	18 50	
	Quality of Material			
2	Grain Size	In Stage- II or III, 1 per	S/U	
b	Plasticity	km	S/U	
c	Compaction	In Stage- II or III, 1 per km	S/U	
d	Total Thickness of Layer	2 per Km	S/U	
		Item Grade	S/U	
	Item 7 - Base C	Course - Water Bound Mad	adam	
2	Grain Size of Coarse Aggregate		S/U	
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	4 44
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	n may
•	Thickness of every layer of WBM.	2 per Km	S/U	
	A Series - Inc.	Item Grade	S/U	- 1 -

	Item 8 - Bituminous Layer -	Premix Carpet (PMC)/ Su	rface Dressin	g (SD)
a :	Level of cleanliness of WBM surface prior to application of bituminous layer	1 per Km	S/U	Not
b	Quality of Prime Coat/ Tack Coat with respect to quality of material and workmanship	1 observation on the day of inspection	S/U	Notal
c	Gradation Test for Coarse 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)	1 test on the day of inspection	S/U	
e	Bitumen Extraction Test if PMC is complete	1 test per Km	S/U	
ſ	Thickness of layer	2 per Km	S/U	
g	Surface Evenness in case of completed BT work	2 per Km	S/U	
	The second secon	Item Grade	S/U	1.7
7 12.		tem 9 – Shoulders		diam'r.
2	Quality of material for shoulders	In Stage- II or III, 1 test per Km	S/SRI/U	(6) 7) = -7.1
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	
Iten	Grade		S/SRI/U	
I	tem 10 - Cross Drainage Works	- Causeways of all spans span.	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	30 A
1				

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	Item 11 - Side	Drain and Catch Water I	Orain	
2	General quality of Side Drains/ Catch Water Drains and their integration with CDs.	All Stages	S/SRI/U	
		Item Grade	S/SRI/U	1
	Item 12 - CC/ Semi Rigio	d Pavements and Associate	d Pukka Dra	ins
а	Quality of Material - Concrete, Stone/ Concrete Block Pavement etc.		S/U	
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	
d	Thickness of Layer	In Stage- II or III, 1 per 100 m. Length of Pavement	S/U	
	an entity	Item Grade	S/U	
	Item 13 - R	oad Furniture and Markin	gs	
2	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Stage-J	S/U	
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	¥.
		Item Grade	S/U	

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	
Item No 2	Site Clearance and Grubbing	
Item No 3	Quality Arrangements	5
Item No 4	Geometrics	5
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		
Item No 7	Item No 7 Base Course - Water Bound Macadam - 2	
Item No 8	Bituminous Layer - Premix Carpet (PMC)/ Surface Dressing (SD)	N.A
Item No 9	Shoulders	5
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	SRY
Item No 12	CC/ Semi Rigid Pavements and Associated Pukka Drains	
Item No 13	Road Furniture and Markings	
	Overall Grading	i i i

Signature:

Name:

Date:

Test for Water Bond Macadam Base WBM GR-II

Sieve Analysis of Aggregate (IS: 2386 Part-1)

Date:-....

Package No.: - BR. 33 R. 434

Nano of Road: RCD Road Nonahimor to Inarwa

Chainage: 350M

Weight of Sample 35115 gm.

I.S. Sieve Designation		Percent of wt. retained (%)	Cumulative Percent of wt. retained (%)	Percent of wt. passing (%)	Permissible Value
	1	U	0	100	100
90 mm	1000	8.92	8.92	91.08	90 - 100
63 mm	3132	+	4 5.55	54.45	25 - 75
53 mm	12863	36.63	45.33		
45 mm	13913	39.62	85.17	1483	0 - 15
22.4 mm	5207	14-83	100	0	0 -5
Pan			i en paga de	Tax Albert	7, - 9(8)
			Trial = 7.51		

weight of stone material = 35115 gm weight of screening material = 7845 gm / of screening material = 7845 × 100 = 22.34.1.

Checked By:

Tested By: