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

GENERAL: Work is Ongoing Completed
1.1. Date of Inspection DD MM YY
1.2. Name of State Quality Monitor: BICHILESH ICUMAR
1.3. District: SARAH Block SADAR CHARRA
1.4. Name of Road: From Lo43-To4 HH 10 Amarchapta
1.5. Package No.: BR-09R-448
1.6. Length: 1:09 km Flexible Pavement. 0:00 Km. CC/other Pavement 0:00 m. = 1.09 lec
Total Z Z. Kill
1.7. Estimated Cost (As cleared by GOI): Rs. 58-89 Lakh
1.8. Technical Sanction Cost: Rs. 54.08 Lakh
1.9. The Work is a Case of: New connectivity Up gradation
1.10. Terrain Plam Rolling Hilly
1.11. Date of Start of the Work: 12 04 18
1.12. Stipulated Date of Completion: 11 01 19
1.13. Actual Date of Completion (if work completed):
2. PHYSICAL PROGRESS: (In case of On going works only) Construction

2. PHYSICAL PROGRESS: (I	n case	of Or	going work	s only)	Constr	uction
Programme and Physical Progress:		٠.	Ÿ	3,	:	

Item	Completed percentage of Item	Dates for completion	Start Date	Completion Date	Delay in Months
Earth Work	80%	Due			onting
	20 /0	Actual			181 1
CD Works	10006	Due ·			-
· × ·	100 %	Actual	3, 1		
Sub base i/c	80%	Due		E	
Shoulders	80 FV	Actual			
Base Course (Non	80%	Due	150		-,
Bitu.)	80 90	Actual			
Base / Wearing	7.1258	Due			
Course (Bitu.)		Actual			
CC Pavement		Due	1	5 (5)	17"
war programme from	Children in	Actual			1
Signage etc ·	55 0/0	Due h	en We.	Ja Sage Allen . Com	1
	37 76	Actual.	,		

- QUALITY CONTROL:
 - Location of Field Laboratory: At- Site . Ch. 20 Mg
 - 3.2. Quality Control Register Part-1 is maintained by: Confractor
 - 3.3. Quality Control Register Part-II is maintained by: DIV Electrical
- 4. INSPECTIONS BY NOM, SQM or SENIOR OFFICERS AND AC

Inspection by NQMs, SQMs and senior (i.e. SE or CE) departmental officers and action/taken

	····		and action taken
Date of	Inspected		
Visit		Observations	
	Ву	- Sacryanons	Action Taken by PIU with
Fiz la	4 4 374		17. (V)[n
(1) 24-10-19	R/Ball		Date
	Nem.		
,	Rajeshwax	overcugrading-'s	
	Rayeshwar Singh		XIA.
(2) 24-11-18			
(A) 124-11-18	Sqm.		
•			
	Mithlesh Kr.	overally rading 's	
-	Tha	0. 5 3	W.A.
37-12-10			
12 /2	SE.		
1 1	chapsa.	Over all grading	
	-, 4984.	Joseph	
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Name and Signature of the Head of PIU, Date:

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AKHILESH KUMAR EE. RWS, SONEPUR

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 laboratory (Y/N)		Whether Equipments (Y/N)	necessary available	Whether have been t	Equipments used (Y/N)	
_				_			
Gra sug	Grading: Grade: S RI U If this item is graded RI/U, write clear reasons and suggestions for improvement:						

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

Observations - Item 2a: Maintenance of QC Registers:

#		Whether QC Register Part	Whether QC Register Part
	quantities whether all		II maintained and test
	mandatory tests	provisions.	results monitored as per
	conducted.		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)
				. <u> </u>

Grade: S RI U for improvement:	If this item is graded RI/U, write clear reasons and suggestions
	,
	en la mistre e sua
. GEOMETRICS	S: The NQM should take at-least two measurements in 1 Km

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	_		_	_

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
		-			_

Grad impro	le S U If	this item is graded U, write clear re	easons and suggestions for
		ARDING THE QUALITY OF ITE	EMS OF WORK:
	Earthwork: vations – Item 4 a	Quality of Material for Embankme	ent/ Sub-grade:
#	Location (RD)	On Visual Classification identify the Group Symbol and write	Quality of material is acceptable. (Y/N)
_	_		_
Grad sugge	e: S U	If this item is graded U, write cleament:	r reasons and
	•		
		3	
	1		

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

1	#	Location	MDD kN/m ³	Field		ree of Compaction		
1		(RD)	(As per	Moisture	Field Density		Compaction	
			record)	Content	kN/m³	kN/m³	adequate.	
		, i					(Y/N)	
		_	_	ŀ	_			

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

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

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	Whether profile is Satisfactory (Y/N)
_			
		,	
	,		THE LONG THE LANGE

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

#	Location	Cut Slopes & Profile,		Formation is properly					
	(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)
	_	_				
					ŗ	

Grade: S U	If this item is graded U, write clear reason	ns and suggestions
for improvement:		na vojava se se
		-
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6. Base Course:

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

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

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

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 (RD)	Whether Course 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)
					(1714)

	rade: S provement:	U If this item	is graded	U, write	clear reasons	and suggestions	for
Obs	ks):			manship		in case of comp	
#	Location (RD)	Thickness in mm	ickness Whether to is adequa			orface evenness otable limits. (Y	
	ade: S U	J If this ite	m is graded	U, write	clear reasons a	and suggestions	for
8.	Observ	ations- Item N	. 8 a and h	o. Quality	of Shoulders	(in case of com	nleted
wo	rks):						•
#	RD observation	of Whether quality material acceptable	general of the is e. (Y/N)	Whether quality workman acceptab	of	Whether Cam Shoulders is ac (Y/N)	
				-			
			5 1				

9.	Cross Drainage	Works:	Observations	Item No	o. 9 a and	b, Quality	of CDs

#	RD at which	Type of CD		Whether general
	CD is located		quality of the material	quality of
			is acceptable. (Y/N)	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		Whether general quality	
		RDs where side	which	of the side drains/ catch-	
		drain	observation	water drains is	cross drains. (Y/N)
		constructed.	made.	acceptable. (Y/N)	
					_

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

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

	No. 11 a, b, c and d.							
#	Reference of		Thic	kness	General	C	General	
	RDs, CC/SR Pavements provided.	which observati on made.	Thickness in mm	Acceptable (Y/N)	-1 <i>y</i>	of is	quality of workmanship acceptable(Y/ N)	
		_	_	_	-	_		

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:

Yes No

iii. 1 Km. Stone fixed:

iv. Guard Stones fixed on Curves:

Yes No

v. Mandatory and Cautionary Signage

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	Awardable				
		work	Grades	Awarded Grade			
1	2	3	4	5			
	Item 1 - Quality Arrangements						
_	Quanty Arrangements	On-going	S/RI/U	_			
	Item Grading		S/RI/U	_			
	Item 2 - Atter	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	P	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 Emba	nkment/ Cutti	nα			
	Quality of Material for Embankment/	g 2		iig			
a	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	e y le P _e by established we have			
	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	_			
	Total Thickness of Layer	Ongoing or	S/U				
d	Total Thickness of Eayer	complete					

	Item 6 - Base Course –	Water Bound M	acadam	
a	Grain Size of Course Aggregate		S/U	_
b	Plasticity of Crushable Aggregate used as fillers	Ongoing or complete	S/U	_
c	Adequacy of Compaction through volumetric analysis.		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	5	
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	HIS THE WATER
	Item Grading		S/RI/U	_
	Item 11 - CC/ Semi Rigid Paver	nents and Associ	ated Pukka I	Drains
a	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.	Ongoing or complete	S/U	
b	Strength of CC in Concrete Pavement/		S/U	

c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.		S/U	2 2
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	- 180
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	
7	Bituminous Surfacing	
8	Shoulders	
9	CD Works	_
10	Side Drains and Catch Water Drains	- 17 1 (10) O TO SA
11	CC/Semi-Rigid Pavement and Associated Pukka Drains	
12	Road Furniture and Markings	
	Overall Grading	_

Signature:

Name: AKHILESH KUMAR

Date: 28/14277