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

GENERAL: Work is Ongoing Completed	
1.1. Date of Inspection DD MM YY 28-12-2018 1.2. Name of State Quality Monitor: DP Abrayan Proceed	
1.3. District Cores	
1.4. Name of Road From	
15 Probaga No. Telaphone exchange To Gulaxia Chat Ro	zel?
1.6. Length:Km Flexible Payement Km CC/other Payement	
Total 1:90Km	
1.7. Estimated Cost (As cleared by GOI): Rs. 136.28 Lakh	
1.8. Technical Sanction Cost: Rs. 136-28 Lakh	
1.9. The Work is a Case of: New connectivity Up gradation	
1.10. Terrain Plan Rolling Hilly	
1.11. Date of Start of the Work: 9 11 2017	
1.12. Stipulated Date of Completion: 8 11 2018	
1.13. Actual Date of Completion (if work completed):	
PHYSICAL PROGRESS: (In case of On going works only) Construction	
Programme and Physical Progress:	
Item Completed Dates for Start Completion Dalay	

Item	Completed percentage of Item	Dates for completion	1	tart Vate	Completion	Delay in
Earth Work	80%	Duc		·	Date	Months
	007.	Actual				ill the
CD Works	100%	Due				
	100/	Actual				
Sub base i/c	•/	Due 🗸				
Shoulders	100%	Actual			V 16	
Base Course (Non	1 00%		·			
Gare /Wearland	A STANDARD OF THE STANDARD STANDARD STANDARD			Arn W		
ourse(Bire)	-	Alta.	1			
c Pavemen		geregal (	104			1
Se La Cillett	100%	-	<del>-</del>	1		
denage en		4 4	-			
6, 70			1,50		<u>.</u>	

### 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: p.1. U

## 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	Inspected By	Observations	Action Taken by PI	U with Date
4.3.18	NOM -	-'s'	11	
27.11.12	3-SOM -	— 'S '-	_	
1 2				
				•
A		es fresh	1. **	7

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 laboratory Established (Y/N)	Whether Equipments (Y/N)	necessary available	Whether Equipments have been used (Y/N)
	Y	7		. 7

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:

#	‡	Based on executed	Whether QC Register Part	Whether QC Register Part
		quantities whether all	I maintained as per	II maintained and test
1.			provisions.	results monitored as per
		conducted.	provisions.	provisions.
1	9.14		NATURA NATURA	l '
		Yes Partly No	Yes Partly No	Yes Partly No
	1,11		2 .=	
	ilþe			

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

		1101111/1			
	#	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)
V.		Tool			

Grade 8 RI U for improvement:	If this item is graded RI/U, write clear reasons	and suggestions
for improvement:		
		·

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)
1200	6.00	3.75	1600	6.10	3-75

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

Ref.	Super	Extra	Ref. RD	Super	Extra Widening
RD	Elevation	Widening		Elevation	provided (Y/N)
		provided (Y/N)			
<u>,                                     </u>					
		10			
= -					

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
KD& KD	Gradient		KDa KD	Ottadivin	
			i i		
			6		

- TAT	If this item is graded	U, write	e clear reasons	and suggestions for
Grade S U improvement:				
limbro 4 cm.	ત હૈલી		in the state of the state of	
200	<b>3</b> 4 (34 A)		i e	
			eta A A Antonio	
			ā 1.	1
		4		
			,	

#### OBSERVATIONS REGARDING THE QUALITY OF ITEMS OF WORK:

#### 4 Earthwork:

Observations - Item 4 a 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)
	200	SG	Y
7	<b>300</b>	SC	Y
- 1	1200	SG	У
5 B 4	1600	SG	У
į. ,.			

Grade:	S U If t	his item is grad	ed U, write cle	ar reasons	and
suggestions	for improvement:				
We I a m					
· · · · · · · · · · · · · · · · · · ·					
			les		£
		· · · · · · · · · · · · · · · · · · ·			-
. (					
. 1	gette grift gr				

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

C	nstruction:	MDD kN/m <sup>3</sup>	Field	Degree of Compaction				
"	(RD)	(As per record)	Moisture Content	Field Density kN/m <sup>3</sup>	Dry Density kN/m <sup>3</sup>	Compaction adequate.		
					,			
6								

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

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

#	Location (RD)	Whether Side Slopes Satisfactory (Y/N)	1	Whether profile is Satisfactory (Y/N)
			2	
			land to the second	
	- 3	1.	1 . 10109	1
(				
14.3		,		

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

#	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)
		*		
100			- 10 5	
1400 1400 1400				

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

#### 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)
				1.11		
				10		
				7		
				1		
					-	

Grade: S U	TC41!	
	If this item is graded U, write clear reasons and sugge	stions
for improvement:	lago e governo en la compansión de la comp	
in the second	The second of th	
	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	<u>n.</u>	
	the second of th	
	<u> </u>	
general Mean to a second of	and the second of the second o	
April 1 mars of the same of the		
g, 3	and the second s	
	34	
\$1.6		

#### Base Course:

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

#	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 course aggregate	Whether adequate compaction is done.  (Y/N)
		galvalarini Sata		(188)			~ .
, Ku	<u> </u>						
				print stall Industria			
			Lay	357 90 357 37 3 10 10 10			

Grade: S U If this item is grade	ed U, write cle	ear reasons	s and suggestions for
improvement:			
			`
2005년 4월 반찬했다 왕동, 100 대 전 [4]			
용으로 보면 없는 것이 없었다. 그런 경기 전 보다 함께 되었다. 1985년 - 1985년 대한 기계부터 1987년 대한			
	• •		

Bituminous Course: Premix Carpet/Surface Dressing/ BM/ MPM etc 7. 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
.0	(RD)	Course	binder is of	Temperature	Temperature
	in the	Aggregate	approved grade.	and whether it is	and whether it
	* *	confirms to	(Y/N)	in permissible	is in
		grading.		limits. (Y/N)	permissible
	, 1	(Y/N)			limits. (Y/N)
	31-				
		t a glav	11		
	18				
Sanday All	e Supplier			1	

Grade S U If this improvement:	item is graded	U,	write	olear	reasons	and	suggestions	fo
improvement:		(i.)					,	
	_		<del></del>					
			×.		,			
	X.		de la					
	Land Burgary							

Observations- Item No. 7 d and e, Workmanship of BT layer (in case of completed works):

#	Location	Th	ickness	Whether surface evenness is
	(RD)	Thickness in	Whether thickness	within acceptable limits. (Y/N)
		mm	is adequate. (Y/N)	
1		vet	not done	
	N			

Grade: S U improvement:	If this item is graded	U, write clear reaso	ns and suggestions for
		4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
			-
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

8. Observations- Item No. 8 a and b, Quality of Shoulders (in case of completed works):

#	RD of	Whether general	Whether general	Whether Camber in
	observation			Shoulders is adequate
,		material is	workmanship is	(Y/N)
-		acceptable. (Y/N)	acceptable. (Y/N)	
		*		
,		In Po	wgrees	
				,
	20 No. 1 No. 1 No. 1	44.0		

	Cross Drain	inge Works: Ot	servations Ite	em No. 9	and b, Quality of CDs:
#	RD at which CD is located	Type of CD	Whether quality of the is acceptable.	general e material	Whether general
	400	HP(1×1000)	7		<b>Y</b> = 100 and
	and the second s				- Admin
7				1.	70
				,	
	ade: 8 RI		nis item is gra	ded RI/U,	, write clear reasons and
sug	gestions for imp	rovement:			v p
1					
-4,			26		
				191	
				<b>*</b>	
				•	•
· · · · · · · · · · · · · · · · · · ·	Lab gran was	ter i Digitali da karangan ka Limitali da karangan			
10.	Side Drains	and Catch wat	er Drains: Ol	servation	18;
#	Reference constructed.	le which	Whether ger of the side d water d acceptable. (	rains/ caterains	ch- are integrated to
\ \ \				141	
- 2					1 4
. 7				1	
<i>j.</i> 1		1	-st	i i	
1					
Gra sugg	de: S RI	U If thi ovement:	s item is grac	led RI/U,	write clear reasons and
		<i>y</i> . \	• 1		e s
No special					
				. 9	

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

#	Reference of RDs, CC/SR Pavements provided.		Thickness in mm	Accepta (Y/N)	ble	- of ottoring	of s	General quality of workmanship acceptable(Y/ N)
		1600	190	Y	y.	Y		$\rightarrow$
- 0				i.	l.			
	and the second s		10 m				Y	
		in the second second				,		

	partition of the state of the s				
Grade: 8 U	If this item is graded	d U, write clear	reasons an	d suggestion	s for
improvement:					
	,	ind to a re-			
				,	
		4		,	
			A 1.		

#### 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: 8 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	,

yet to be done

Yes No Yes No Grade: S U If this item is graded U, write clear reasons and suggestions for improvement:

- 13. General Observations of NOM, (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: - In flexible part, according to J.E., road profile has been badly damaged due to heavy loaded traffic. Before B.T. work, it is advised to maintain road profile. Parapet wall of C.D. work 40 require repair.

## 15. Quality Grading of items and sub-items of work: The grading of every sub-

#	Sub item for observation	In case of work	Awardable Grades	Awarded Grade
1	2	35	4	5
	Item 1 - Quali		S	
1	Quality Arrangements	On-going	S/RI/U	5
	Item Grading		S/RI/U	S
	Item 2 - Atte	ention to Quality	•	
1	Maintenance of QC Registers	On-going	S/RI/U	3
	Verification of test results	On-going/ Complete	S/U	
	Item Grading	N. Committee	S/RI/U	3
	Item 3 –	Geometrics		
1	Road way width		S/U	S
)	Carriageway width	Ongoing or	S/U	5
:	Camber	complete	S/U	<u> </u>
1	Superelevation & Extra Widening at Curves	rest to the second seco	S/U	<u></u>
	Longitudinal Gradient in case of road in hilly/rolling terrain.	Ongoing/ complete	S/U	
	Item Grading:		S/U	5
	Item 4 - Earth Work and Sul	agrade in Emba		
T	Quality of Material for Embankment/	-grade in Emba	TRITTETT CUTT	ıg .
	Sub-grade	Ongoing or complete	S/U	S
1	Compaction	complete	S/U	<b>-</b>
	Side Slopes and Profile	Complete	S/U	_
	Stability and Workmanship of Cut Slopes (in case of hilly/ rolling terrain)	Ongoing or complete	S/Ų	
	Adequacy of Slope Protection (in case of high embankments/hilly/ rolling terrain)	Complete	S/U	
	Item Grading		S/Ù	S
	Item 5 -	· Sub-Base		
(	Grain Size	Ongoing or	S/U	
1	Plasticity	complete	S/U	-
_1	Compaction	Ongoing or complete	S/U	
ľ	4			
(	Total Thickness of Layer	Ongoing or complete.	S/U	· , <del>- 1</del>

	in the state of th	Water Bound Ma	cadam	
	Item 6 - Base Course - \	Water Bound	S/U	-
a	Grain Size of Course Aggregate  Plasticity of Crushable Aggregate	Ongoing or	S/U	_
b	used as fillers Adequacy of Compaction through	complete	S/U	_
d	volumetric analysis.  Thickness of every layer of WBM.		S/U	_
a	Item Grading		S/U	
	Item 7 - Bituminous Layer - Premix	Carpet (PMC)/ S	urface Dress	sing (SD)
a	Gradation of Aggregate	Ongoing	S/U	
b	Mixing Temperature of Mix.	Ongoing	S/U	<u>-i.</u>
c	Laying Temperature of Mix.	Ongoing	S/U	<u> </u>
d	Thickness of layer	Ongoing or complete	S/U	· - ·
e	Surface Evenness	Ongoing or complete	S/U	
	Item Grading		S/U	Transfer of the second
	and the second s	Shoulders		
a	Quality of material for shoulders	Complete	S/RI/U	100
b	Degree of compaction	Complete	s/ri/U	-
	Camber,	Complete	S/RI/U	The second
C	Item Grading		S/RI/U	1.24
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A CONTROL OF THE PROPERTY OF T	Drainage Works		
a	Quality of Material – Concrete, Stone/ brick masonry, Hume pipes including size etc.	Ongoing or	S/RI/U	S
b	Quality of Workmanship such as positioning of pipes, wing walls, cushion over H Pipes etc.	complete	S/RI/U	5
	Item Grading		S/RI/U	S
	Item 10 - Side Drain	and Catch Water	er Drain	1,1,5
	General quality of Side Drains/ Catch Water Drains and their integration	Ongoing or complete	S/RI/U	_
- 40	with CDs.  Item Grading	(A)	S/RI/U	-
	Item 11 - CC/ Semi Rigid Pave	mante and Agenn		Drains
				_
a	Quality of Material – Concrete, Stone/ Concrete Block Pavement etc.	complete	S/U	5
b	Strength of CC in Concrete Pavement/ Concrete Block Pavement	<del></del>	S/U	

		-1, 4		
c	Quality of Workmanship – Wearing surface texture, Adequacy of setting of concrete, Joints, Edges etc.		S/U	,5
	of concrete, Julius, Euges etc.	. /1	S/U	5
d	Thickness of Layer		S/U	5
	Item Grading			
	Item 12 - Road Fur	niture and Marl	kings	
a	Citizen Information Board, Main Informatory Board, Quality and whether fixed during construction.	Ongoing	S/U	5
b	Logo boards, 200 m stones and Km stones, quality and whether fixed after completion,	Complete	S/U	-
c	Whether the information in bóards is given in local language.	Complete/ Ongoing	S/U	5
	Item Grading	P100 - 1	S/Ü	5

Overall Grading of Work: The overall grading calculated on the basis of item

#	Item	Awarded Grade
-1.	Quality Convol Agangements	5
2	Aitention to Quality	\$
3	Geometriles	S
<u>(4)</u>	Earnyhyvordk armal Steibremadistim Einnban Binen v Chiting	
S	Grannillan Stub base	
6	Basse Course None Britishaus outs and shoulders	
T	Brining Sourcing	
8	Shoulders	
-9-	CD Works .	S
10	Side Drains and Catch Water Drains	
11	CC/Semi-Rigid Pavement and Associated Pukka Drains	S
12.	Road Fuiniture and Markings	S
	Overall Grading	S

Signature:  $\frac{7.4^{\circ}}{28|12|18}$ Name: (DIP NARAYAN PRASAD)
Date: ..... 28|12|18